

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P320504

Luminaire Tested: **GLEON-SA0D-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53632 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

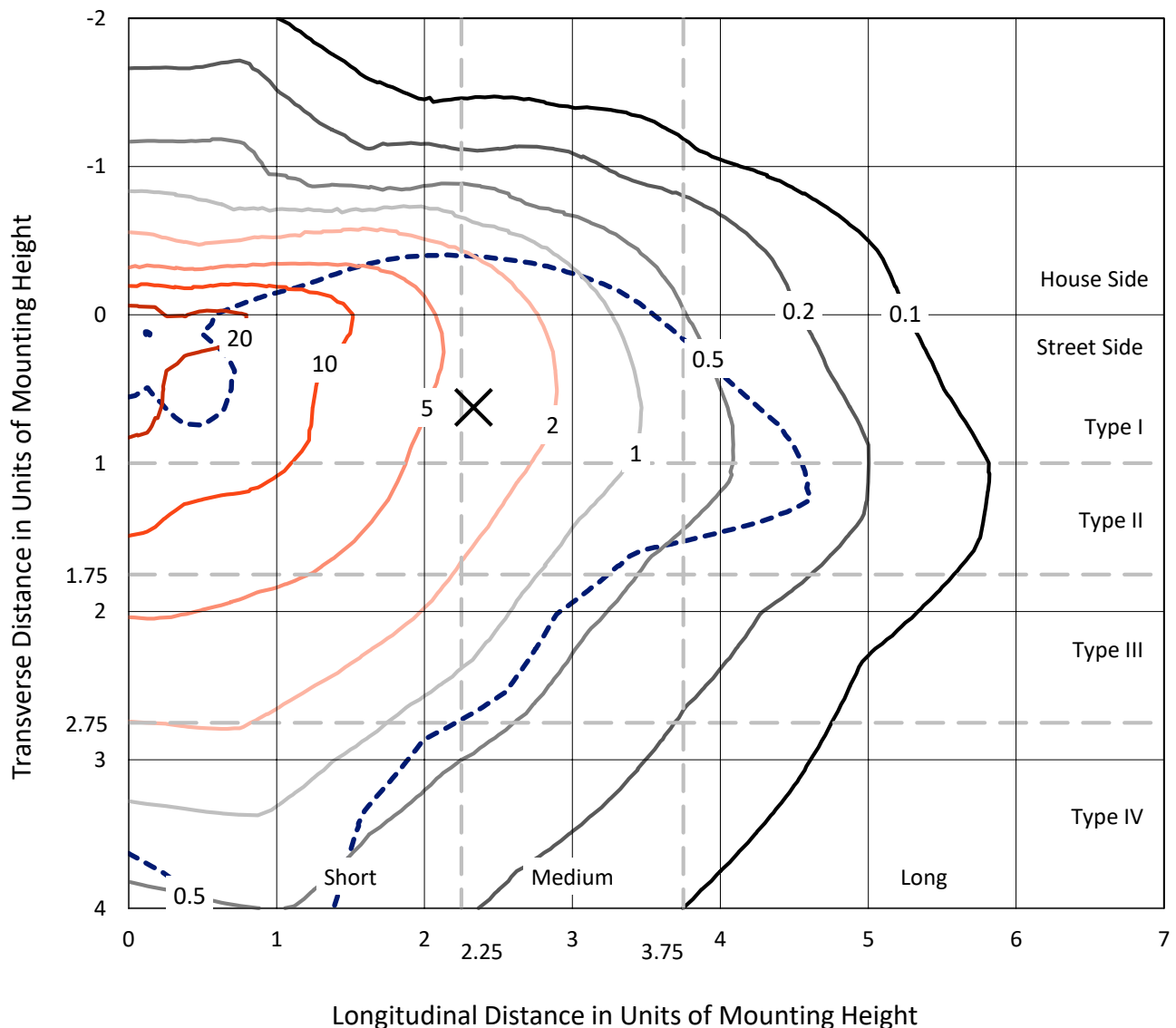
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

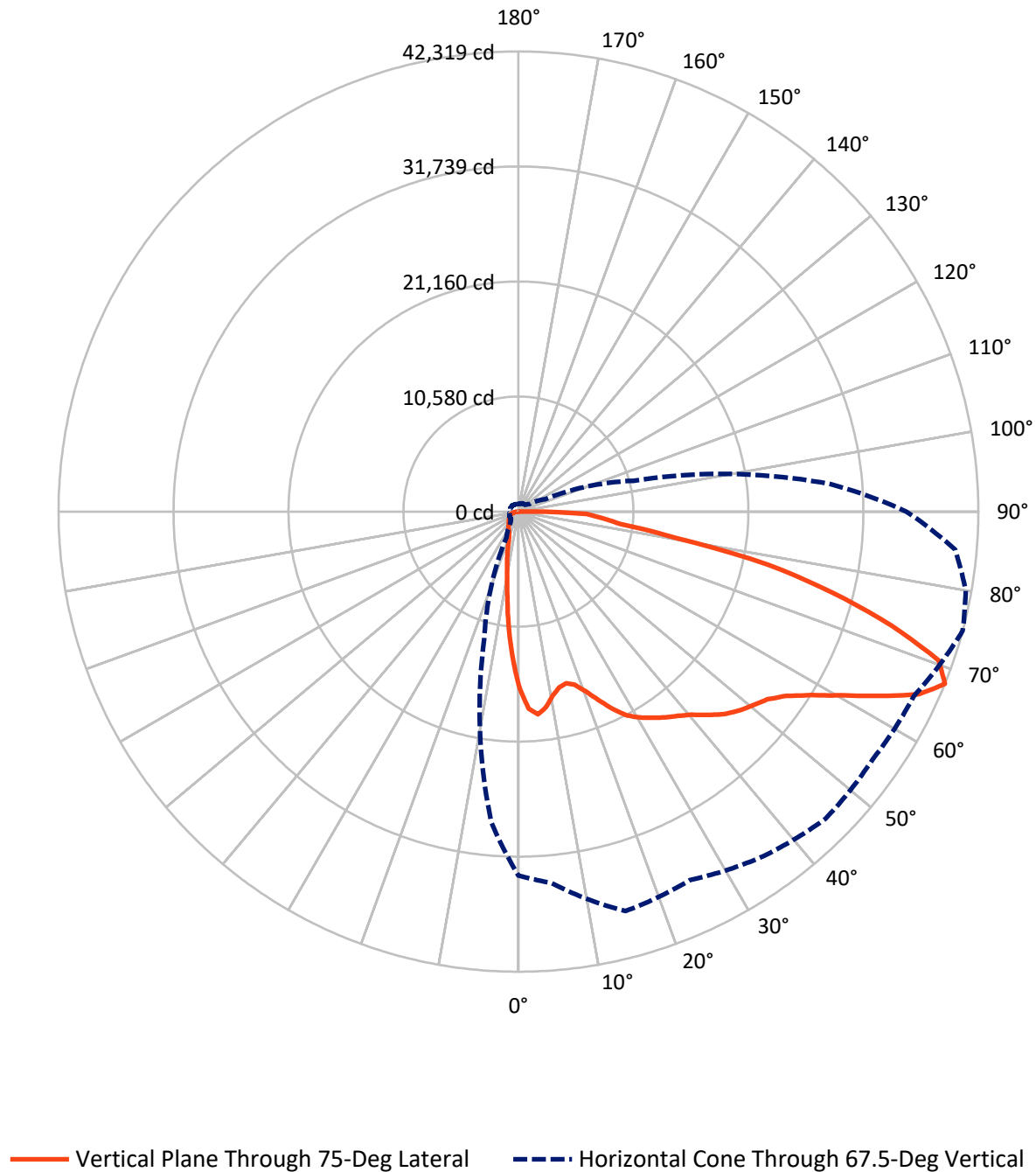
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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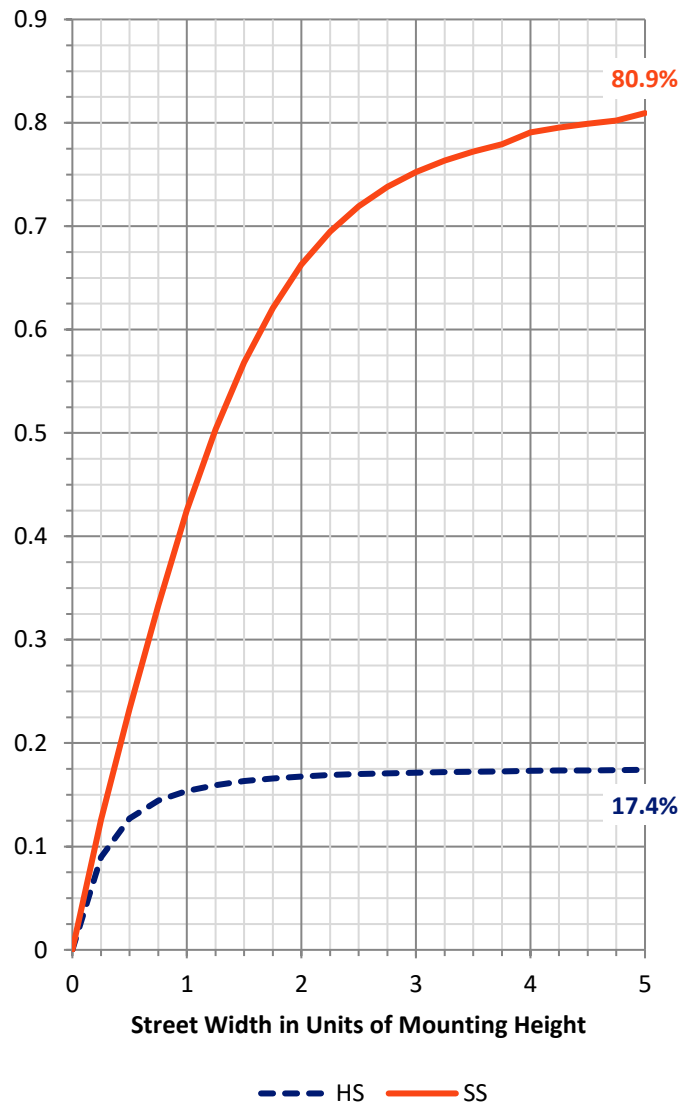
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9445.9	0.0	9445.9
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	44186.1	0.0	44186.1
	% Fixture	82.4	0.0	82.4
Total	Lumens	53632.0	0.0	53632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1261.0	2.4
10°-20°	2619.7	4.9
20°-30°	3725.7	6.9
30°-40°	5368.7	10.0
40°-50°	7566.1	14.1
50°-60°	10518.2	19.6
60°-70°	12719.6	23.7
70°-80°	7818.5	14.6
80°-90°	2034.5	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	53632.0	100.0
0°-180°	53632.0	100.0

Coefficient of Utilization



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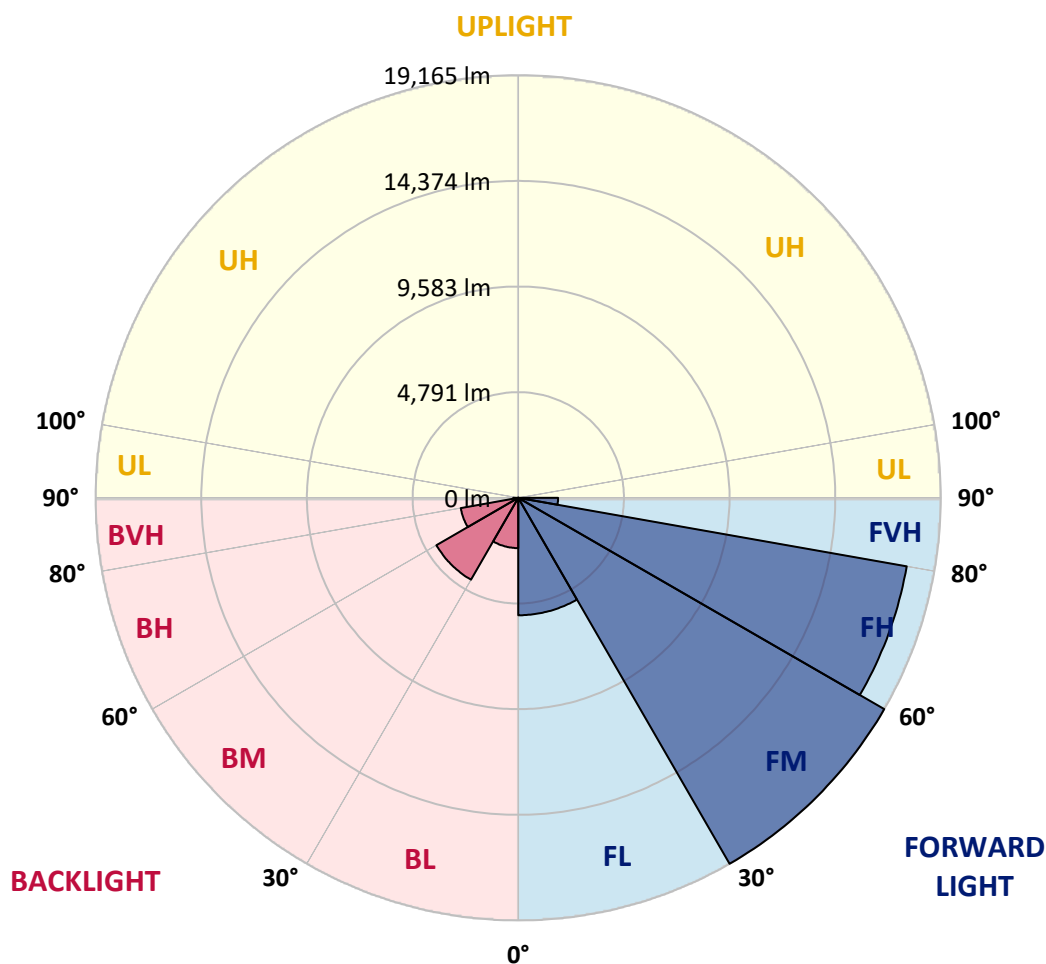
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5325.1	9.9			
FM	(30°-60°)	19165.2	35.7			
FH	(60°-80°)	17889.8	33.4			G5
FVH	(80°-90°)	1805.9	3.4			G5
BL	(0°-30°)	2281.3	4.3	B3/2500		
BM	(30°-60°)	4287.7	8.0	B3/5000		
BH	(60°-80°)	2648.3	4.9	B4/5000		G4/5000
BVH	(80°-90°)	228.6	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2
2.5°	17415.7	17645.1	17803.8	17960.3	18082.5	18202.6	18378.4	18554.3	18588.6	18620.7	18552.1
5°	17312.7	17872.4	18348.4	18822.3	19261.9	19701.4	19965.2	20228.9	20282.5	20336.1	20171.0
7.5°	16204.2	17029.7	17855.2	18680.8	19437.7	20194.6	20655.6	21114.5	21219.6	21322.5	21052.3
10°	14943.3	15904.0	16918.2	17932.4	18929.5	19926.6	20593.4	21260.3	21393.3	21526.2	21189.5
12.5°	13984.8	15033.4	16116.2	17199.1	18251.9	19302.6	19993.1	20683.5	20848.6	21013.7	20769.3
15°	13616.0	14765.4	15783.9	16802.4	17720.1	18635.7	19201.8	19765.8	19834.4	19900.9	19862.3
17.5°	13984.8	15252.1	16174.1	17094.0	17593.6	18091.1	18318.4	18543.5	18618.6	18691.5	18790.1
20°	15063.4	16431.4	17081.2	17728.7	17707.3	17683.7	17574.3	17462.8	17443.5	17424.2	17703.0
22.5°	16603.0	18191.9	18451.3	18708.6	18106.1	17503.6	17136.9	16768.1	16695.2	16620.1	16916.0
25°	18410.6	20102.4	20055.2	20005.9	18858.7	17709.4	17010.4	16311.4	16229.9	16148.4	16401.4
27.5°	20376.9	21993.6	21684.9	21376.1	19817.2	18258.4	17244.1	16229.9	16148.4	16066.9	16289.9
30°	21914.3	23381.0	22885.7	22390.3	20625.6	18860.9	17655.8	16450.7	16317.8	16182.7	16457.2
32.5°	23215.9	24463.8	23799.1	23134.4	21281.8	19429.1	18125.4	16821.7	16613.7	16405.7	16772.4
35°	24571.0	25544.5	24609.6	23672.6	21867.1	20059.5	18680.8	17299.9	17044.7	16789.5	17293.4
37.5°	26095.6	26904.0	25561.7	24217.2	22525.4	20833.6	19512.7	18189.7	17928.1	17666.5	18309.8
40°	27705.9	28379.2	26588.8	24798.3	23245.9	21693.5	20664.2	19632.8	19384.1	19133.2	19913.7
42.5°	29114.7	29605.8	27545.1	25484.5	24114.3	22742.0	22017.2	21290.3	21288.2	21283.9	22075.1
45°	30176.1	30602.8	28342.8	26080.6	24961.3	23839.9	23462.5	23085.1	23387.4	23689.8	24405.9
47.5°	31057.4	31346.9	29011.8	26674.6	25930.5	25186.4	25242.2	25297.9	25913.3	26528.8	26989.8
50°	32065.2	31831.5	29618.6	27403.6	27174.2	26944.7	27446.5	27946.1	28653.7	29359.2	29672.2
52.5°	33156.6	32537.0	30442.0	28344.9	28602.2	28859.6	29880.2	30900.9	31614.9	32329.0	32446.9
55°	35118.6	34168.7	31955.9	29740.8	30236.2	30729.4	32228.2	33724.9	34282.4	34839.9	34882.8
57.5°	37329.4	36486.7	34076.5	31666.4	32198.2	32729.9	34460.4	36188.6	36791.2	37391.6	37307.9
60°	38180.6	38221.4	36090.0	33956.5	34492.5	35028.6	36714.0	38399.4	39092.0	39782.4	39598.0
62.5°	37322.9	38328.6	37190.0	36049.3	36536.0	37020.6	38671.7	40322.8	41032.5	41742.3	41420.6
65°	35626.8	36623.9	37134.2	37644.6	37805.4	37966.2	39507.9	41047.5	41592.2	42134.7	41971.7
67.5°	33469.7	34276.0	36158.6	38039.1	37715.3	37391.6	38114.2	38836.8	39396.4	39956.1	39863.9
70°	30971.7	31932.3	34443.2	36954.1	35363.1	33769.9	33471.9	33173.8	33778.5	34381.0	34007.9
72.5°	26492.3	27941.8	30620.0	33296.0	30364.8	27433.6	26415.1	25396.6	26162.1	26927.6	26333.6
75°	20010.2	21933.6	24892.7	27849.6	24352.3	20855.0	19495.6	18136.1	18794.4	19452.7	19045.3
77.5°	13916.2	16328.5	19242.6	22156.6	18601.4	15044.1	14034.2	13022.1	13219.3	13414.5	13345.9
80°	9488.3	11075.1	13107.8	15138.5	12771.2	10403.9	10483.3	10560.5	10468.3	10373.9	10511.1
82.5°	5950.3	7067.5	8637.1	10204.5	8948.0	7691.5	8411.9	9132.4	8778.6	8422.6	8555.6
85°	3351.5	4033.3	5568.6	7101.8	6619.3	6134.7	6557.1	6977.4	6428.5	5879.6	6121.9
87.5°	639.0	1063.6	3081.3	5096.9	4627.3	4157.7	3613.1	3068.4	2341.5	1614.6	2358.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2
2.5°	18483.5	18447.0	18410.6	18279.8	18146.8	17949.6	17786.6	17503.6	17349.2	17115.5	16881.7
5°	20003.8	19772.2	19540.6	19141.8	18740.8	18294.8	17782.3	17214.1	16785.2	16227.7	15670.2
7.5°	20782.1	20241.8	19699.3	18933.8	18166.1	17475.7	16665.2	15910.4	15267.1	14542.4	13817.6
10°	20852.9	20042.4	19229.7	18234.8	17237.7	16399.3	15466.5	14628.1	13856.2	13024.2	12190.1
12.5°	20522.7	19660.7	18796.6	17700.8	16603.0	15650.9	14647.4	13708.2	12852.7	11937.1	11019.3
15°	19823.7	19135.4	18444.9	17417.8	16390.7	15430.1	14456.6	13343.7	12376.7	11439.6	10500.4
17.5°	18886.6	18560.7	18232.6	17490.7	16746.6	15914.7	14971.2	13665.4	12533.2	11514.7	10496.1
20°	17979.6	18099.7	18217.6	17921.7	17625.8	16958.9	16135.5	14668.9	13223.6	11892.1	10558.3
22.5°	17209.8	17786.6	18361.3	18590.7	18818.0	18417.0	17773.7	16077.6	14165.0	12426.0	10687.0
25°	16652.3	17608.6	18565.0	19328.3	20089.5	19911.6	19416.2	17788.8	15412.9	13195.8	10976.5
27.5°	16512.9	17685.8	18858.7	20042.4	21223.9	21389.0	21251.7	19592.1	16901.0	14152.1	11401.0
30°	16731.6	17919.6	19105.3	20546.3	21985.1	22643.4	22827.8	21095.2	18601.4	15267.1	11930.6
32.5°	17139.0	18303.4	19467.7	21037.3	22604.8	23599.7	24187.2	22469.7	19787.2	16107.7	12426.0
35°	17797.3	18886.6	19975.9	21609.8	23243.7	24530.3	25602.4	23889.2	20840.0	16695.2	12548.2
37.5°	18950.9	19888.0	20825.0	22334.6	23842.0	25510.2	27120.6	25452.3	21978.6	17261.3	12541.8
40°	20694.2	21356.8	22017.2	23293.1	24566.8	26666.0	28840.3	27195.6	23237.3	17874.5	12511.7
42.5°	22866.4	23207.3	23546.1	24556.0	25566.0	27873.2	30401.3	28900.3	24438.1	18444.9	12451.7
45°	25120.0	25210.0	25300.1	25936.9	26571.6	28829.5	31464.8	30180.4	25486.6	18940.2	12391.7
47.5°	27448.6	27139.9	26831.1	27084.1	27337.1	29562.9	32223.9	31151.8	26539.5	19489.2	12436.7
50°	29985.3	29125.4	28265.6	28132.7	27999.7	30296.2	33118.1	32386.9	27804.6	20289.0	12773.3
52.5°	32562.7	31145.3	29728.0	29202.6	28675.2	31171.1	34303.8	33924.3	29610.0	21528.3	13444.5
55°	34925.7	33122.3	31319.0	30611.4	29903.8	32509.1	35751.2	36182.2	31923.7	23112.9	14300.1
57.5°	37222.2	35178.7	33135.2	32479.1	31822.9	34475.4	37584.5	38208.5	34260.9	24633.2	15003.4
60°	39413.6	37391.6	35367.4	34842.0	34314.5	36919.8	39565.8	39111.3	35466.0	25345.1	15222.1
62.5°	41099.0	39490.8	37882.6	37606.0	37327.2	39392.1	41088.3	38759.6	34700.5	24643.9	14587.4
65°	41808.7	40893.1	39975.4	40234.8	40492.2	41261.9	41467.8	37730.4	32294.7	22679.8	13065.0
67.5°	39769.5	39956.1	40142.6	41231.9	42319.1	41789.4	40339.9	35701.9	28870.3	19896.6	10922.8
70°	33632.7	34752.0	35869.1	38446.5	41021.8	39846.7	37318.7	32060.9	24749.0	16690.9	8630.6
72.5°	25737.5	26996.2	28252.7	32078.1	35901.3	34818.4	31722.1	26333.6	19843.0	13328.7	6812.3
75°	18635.7	20057.4	21476.9	25696.8	29916.7	28413.6	23728.4	18854.5	15072.0	10174.5	5274.9
77.5°	13275.1	14227.1	15179.2	19347.6	23513.9	21065.2	15794.6	12687.6	10431.8	7071.8	3709.6
80°	10648.4	10356.8	10065.1	12387.4	14709.6	14302.2	10446.8	8148.2	7219.7	4738.8	2257.9
82.5°	8686.4	7974.5	7262.6	8356.2	9449.7	9389.7	7249.7	5978.2	5373.5	3293.6	1213.6
85°	6362.0	6076.8	5791.6	6758.7	7725.8	6900.2	4910.3	3799.6	4189.9	2425.2	660.4
87.5°	3102.7	3544.5	3984.0	5124.8	6263.4	4702.4	1490.3	737.6	1020.7	671.2	319.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320504
 CATALOG NUMBER: GLEON-SA0D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320504

CATALOG NUMBER: GLEON-SA0D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2
2.5°	16708.1	16532.2	16332.8	16133.4	15906.1	15676.7	15541.6	15404.3	15256.4	15108.4	14941.2
5°	15301.4	14932.6	14514.5	14096.3	13682.5	13268.7	13045.7	12822.7	12586.8	12348.8	12142.9
7.5°	13281.5	12743.3	12164.4	11583.3	11068.7	10551.9	10232.4	9910.8	9619.1	9325.4	9078.8
10°	11503.9	10817.8	10236.7	9653.4	9265.3	8877.2	8583.5	8289.7	8006.7	7721.5	7449.1
12.5°	10333.2	9647.0	9278.2	8909.4	8587.8	8266.1	7927.3	7586.4	7198.3	6808.0	6522.8
15°	9876.4	9252.5	8842.9	8431.2	8000.2	7567.1	7151.1	6735.1	6276.2	5817.4	5493.6
17.5°	9679.2	8862.2	8289.7	7715.0	7146.8	6578.6	6096.1	5613.7	5111.9	4610.2	4282.1
20°	9471.2	8384.0	7616.4	6846.6	6117.6	5388.5	4841.7	4294.9	3846.8	3398.6	3147.8
22.5°	9282.5	7875.9	6913.1	5948.2	5086.2	4224.2	3688.1	3149.9	2875.4	2601.0	2500.2
25°	9205.3	7432.0	6248.4	5064.7	4155.6	3244.3	2862.6	2480.9	2375.8	2268.6	2217.2
27.5°	9218.2	7035.3	5688.7	4340.0	3520.9	2701.8	2440.2	2178.6	2114.2	2047.8	2015.6
30°	9267.5	6604.3	5161.2	3718.1	3042.7	2367.3	2197.9	2026.3	1957.7	1889.1	1848.3
32.5°	9323.2	6218.3	4753.8	3287.1	2736.1	2182.9	2043.5	1902.0	1835.5	1769.0	1728.3
35°	9226.7	5903.1	4475.1	3047.0	2538.8	2028.5	1910.5	1790.5	1717.6	1644.6	1606.0
37.5°	9063.8	5585.8	4258.5	2929.1	2410.1	1889.1	1803.3	1715.4	1640.4	1563.2	1526.7
40°	8915.8	5317.8	4097.7	2875.4	2339.4	1801.2	1728.3	1655.4	1578.2	1498.8	1456.0
42.5°	8795.7	5137.6	3939.0	2740.4	2275.1	1807.6	1704.7	1599.6	1524.6	1449.5	1402.3
45°	8705.7	5019.7	3814.6	2609.6	2215.0	1820.5	1689.7	1558.9	1483.8	1406.6	1350.9
47.5°	8697.1	4957.5	3726.7	2495.9	2101.4	1704.7	1651.1	1597.5	1488.1	1376.6	1312.3
50°	8815.0	4856.7	3623.8	2388.7	1992.0	1595.3	1668.2	1739.0	1552.4	1363.7	1282.3
52.5°	9061.6	4678.8	3460.8	2242.9	1859.1	1473.1	1586.8	1698.3	1537.4	1374.5	1269.4
55°	9359.7	4417.2	3214.2	2009.2	1683.2	1355.2	1456.0	1554.6	1453.8	1350.9	1224.4
57.5°	9546.2	4087.0	2903.3	1719.7	1486.0	1252.2	1310.1	1365.9	1325.2	1284.4	1155.8
60°	9434.7	3647.4	2553.8	1458.1	1312.3	1166.5	1155.8	1142.9	1202.9	1263.0	1115.0
62.5°	8890.1	3192.8	2245.0	1297.3	1187.9	1076.4	1052.8	1027.1	1125.7	1222.2	1065.7
65°	7970.2	2875.4	2049.9	1224.4	1102.1	979.9	954.2	928.5	958.5	988.5	915.6
67.5°	6801.6	2680.3	1938.4	1196.5	1048.5	898.4	868.4	838.4	832.0	825.5	799.8
70°	5596.5	2560.2	1865.5	1170.8	990.6	808.4	780.5	752.6	744.1	733.3	714.0
72.5°	4678.8	2545.2	1856.9	1168.6	943.5	718.3	692.6	666.9	656.1	643.3	628.3
75°	3831.8	2388.7	1762.6	1136.5	879.1	619.7	596.1	572.5	563.9	553.2	540.4
77.5°	2843.3	1977.0	1481.7	986.4	752.6	518.9	495.3	469.6	467.4	463.2	452.4
80°	1844.1	1430.2	1059.3	688.3	548.9	407.4	388.1	366.7	368.8	371.0	362.4
82.5°	1025.0	834.1	647.6	461.0	375.2	289.5	280.9	270.2	276.6	280.9	270.2
85°	540.4	420.3	347.4	274.5	216.6	158.7	158.7	156.5	165.1	173.7	165.1
87.5°	233.7	148.0	126.5	102.9	57.9	10.7	12.9	12.9	17.2	21.4	19.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320504
 CATALOG NUMBER: GLEON-SA0D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320504

CATALOG NUMBER: GLEON-SA0D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2
2.5°	14771.8	14615.3	14456.6	14282.9	14315.1	14182.1	14049.2	13965.5	13881.9	13856.2	13830.5
5°	11937.1	11759.1	11579.0	11418.2	11557.5	11463.2	11368.9	11356.0	11341.0	11341.0	11338.8
7.5°	8832.2	8641.4	8448.4	8315.4	8452.7	8435.5	8418.4	8510.6	8602.8	8677.8	8750.7
10°	7176.8	6945.2	6711.5	6514.3	6479.9	6381.3	6280.5	6302.0	6321.3	6402.8	6484.2
12.5°	6237.6	5961.0	5684.4	5452.8	5347.8	5184.8	5019.7	4916.8	4813.9	4824.6	4833.2
15°	5167.7	4899.6	4629.5	4430.0	4363.6	4237.1	4110.5	3981.9	3851.1	3797.5	3741.7
17.5°	3951.9	3737.4	3520.9	3387.9	3387.9	3351.5	3315.0	3250.7	3184.2	3130.6	3074.9
20°	2896.9	2783.2	2667.5	2611.7	2628.9	2631.0	2631.0	2663.2	2695.3	2678.2	2661.0
22.5°	2397.3	2356.5	2315.8	2292.2	2300.8	2302.9	2305.1	2335.1	2363.0	2384.4	2403.7
25°	2163.6	2137.8	2112.1	2103.5	2122.8	2125.0	2125.0	2144.3	2163.6	2185.0	2206.4
27.5°	1981.3	1970.6	1959.9	1944.8	1964.1	1964.1	1962.0	1983.4	2002.7	2022.0	2039.2
30°	1807.6	1811.9	1814.0	1809.8	1822.6	1831.2	1837.6	1852.6	1865.5	1880.5	1895.5
32.5°	1685.4	1679.0	1672.5	1668.2	1696.1	1711.1	1726.1	1741.1	1754.0	1760.4	1766.9
35°	1567.5	1552.4	1537.4	1526.7	1552.4	1571.7	1591.0	1618.9	1644.6	1648.9	1653.2
37.5°	1488.1	1468.8	1449.5	1436.7	1447.4	1456.0	1464.5	1494.5	1524.6	1541.7	1556.7
40°	1413.1	1393.8	1374.5	1363.7	1370.2	1372.3	1374.5	1389.5	1402.3	1434.5	1464.5
42.5°	1353.0	1329.4	1305.9	1293.0	1297.3	1301.6	1303.7	1301.6	1299.4	1329.4	1359.5
45°	1293.0	1267.3	1241.5	1226.5	1228.7	1228.7	1228.7	1224.4	1217.9	1232.9	1248.0
47.5°	1245.8	1215.8	1185.8	1170.8	1166.5	1162.2	1157.9	1155.8	1151.5	1162.2	1170.8
50°	1198.6	1166.5	1132.2	1115.0	1104.3	1100.0	1095.7	1093.6	1089.3	1100.0	1108.6
52.5°	1162.2	1123.6	1085.0	1057.1	1046.4	1040.0	1033.5	1035.7	1035.7	1040.0	1042.1
55°	1097.9	1063.6	1027.1	1007.8	988.5	984.2	979.9	986.4	990.6	990.6	990.6
57.5°	1027.1	994.9	960.6	947.8	930.6	930.6	928.5	937.0	943.5	947.8	952.1
60°	964.9	928.5	892.0	881.3	874.9	872.7	870.6	881.3	889.9	898.4	907.0
62.5°	907.0	868.4	829.8	817.0	814.8	817.0	817.0	827.7	836.3	844.8	853.4
65°	842.7	804.1	763.4	750.5	754.8	761.2	767.6	776.2	782.7	791.2	799.8
67.5°	771.9	739.8	705.5	692.6	694.7	703.3	711.9	718.3	722.6	731.2	739.8
70°	694.7	666.9	639.0	630.4	628.3	639.0	647.6	651.9	656.1	666.9	675.4
72.5°	611.1	587.5	563.9	557.5	559.7	566.1	572.5	578.9	583.2	594.0	602.5
75°	525.3	503.9	482.5	478.2	482.5	488.9	495.3	499.6	503.9	516.8	527.5
77.5°	441.7	418.1	392.4	390.3	396.7	403.1	407.4	413.8	420.3	437.4	454.6
80°	353.8	328.1	300.2	298.1	304.5	310.9	317.4	323.8	330.2	351.7	371.0
82.5°	259.5	229.4	199.4	195.1	216.6	223.0	229.4	240.2	248.7	268.0	287.3
85°	156.5	126.5	96.5	94.3	113.6	124.4	135.1	148.0	158.7	175.8	193.0
87.5°	17.2	8.6	0.0	0.0	2.1	10.7	19.3	30.0	40.7	57.9	72.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320504
 CATALOG NUMBER: GLEON-SA0D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320504

CATALOG NUMBER: GLEON-SA0D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2
2.5°	13736.1	13639.6	13738.3	13834.7	13875.5	13916.2	13811.2	13703.9	13871.2	14036.3	14079.2
5°	11253.1	11165.1	11231.6	11295.9	11152.3	11008.6	10993.6	10976.5	11100.8	11225.2	11244.5
7.5°	8722.8	8695.0	8757.1	8819.3	8637.1	8452.7	8362.6	8272.5	8302.6	8332.6	8328.3
10°	6503.5	6520.7	6597.9	6672.9	6531.4	6389.9	6327.7	6265.5	6334.1	6400.6	6462.8
12.5°	4871.8	4908.2	4989.7	5069.0	5011.1	4951.1	4957.5	4964.0	5043.3	5120.5	5189.1
15°	3784.6	3827.5	3885.4	3941.1	3943.3	3943.3	3999.0	4052.6	4046.2	4039.8	4087.0
17.5°	3132.8	3188.5	3194.9	3201.4	3203.5	3205.7	3201.4	3197.1	3164.9	3132.8	3169.2
20°	2682.5	2701.8	2718.9	2733.9	2714.6	2693.2	2639.6	2586.0	2564.5	2543.1	2577.4
22.5°	2440.2	2474.5	2457.3	2438.0	2399.4	2358.7	2317.9	2275.1	2272.9	2268.6	2287.9
25°	2236.5	2264.3	2234.3	2204.3	2176.4	2148.5	2120.7	2092.8	2090.7	2088.5	2097.1
27.5°	2067.1	2092.8	2064.9	2037.0	2013.5	1989.9	1968.4	1947.0	1942.7	1938.4	1940.6
30°	1921.3	1944.8	1921.3	1895.5	1878.4	1859.1	1844.1	1829.1	1826.9	1824.8	1824.8
32.5°	1790.5	1814.0	1796.9	1779.7	1764.7	1749.7	1739.0	1728.3	1717.6	1706.8	1683.2
35°	1676.8	1700.4	1689.7	1676.8	1659.7	1642.5	1623.2	1601.8	1573.9	1543.9	1531.0
37.5°	1580.3	1603.9	1593.2	1582.5	1558.9	1535.3	1501.0	1464.5	1456.0	1445.2	1443.1
40°	1503.1	1539.6	1518.1	1494.5	1458.1	1421.6	1404.5	1387.3	1383.0	1378.8	1374.5
42.5°	1417.4	1473.1	1434.5	1395.9	1361.6	1327.3	1323.0	1318.7	1316.6	1314.4	1314.4
45°	1310.1	1370.2	1331.6	1290.8	1271.5	1252.2	1252.2	1252.2	1254.4	1254.4	1258.7
47.5°	1209.4	1245.8	1226.5	1207.2	1196.5	1185.8	1187.9	1190.1	1196.5	1200.8	1211.5
50°	1123.6	1136.5	1140.7	1142.9	1136.5	1130.0	1134.3	1136.5	1142.9	1147.2	1155.8
52.5°	1061.4	1080.7	1080.7	1078.6	1078.6	1078.6	1082.8	1087.1	1093.6	1100.0	1108.6
55°	1020.7	1048.5	1040.0	1031.4	1033.5	1033.5	1037.8	1042.1	1048.5	1052.8	1065.7
57.5°	982.1	1012.1	1003.5	994.9	994.9	994.9	997.1	999.2	1005.7	1009.9	1018.5
60°	937.0	967.1	958.5	947.8	949.9	952.1	954.2	954.2	958.5	960.6	960.6
62.5°	883.4	913.5	904.9	894.2	900.6	904.9	904.9	904.9	909.2	911.3	904.9
65°	827.7	855.6	847.0	838.4	847.0	853.4	857.7	859.8	857.7	855.6	849.1
67.5°	767.6	795.5	786.9	776.2	786.9	795.5	804.1	810.5	804.1	797.7	789.1
70°	703.3	731.2	720.5	709.7	720.5	731.2	739.8	748.3	739.8	731.2	729.0
72.5°	634.7	666.9	654.0	641.1	654.0	666.9	671.2	675.4	669.0	662.6	658.3
75°	559.7	591.8	581.1	568.2	578.9	589.7	591.8	594.0	594.0	591.8	578.9
77.5°	480.3	506.0	499.6	493.2	499.6	506.0	506.0	506.0	508.2	508.2	491.0
80°	386.0	401.0	403.1	405.3	407.4	409.6	407.4	405.3	401.0	396.7	386.0
82.5°	287.3	287.3	304.5	319.5	319.5	317.4	315.2	310.9	302.3	291.6	268.0
85°	182.3	171.5	199.4	225.1	225.1	223.0	218.7	212.3	195.1	175.8	156.5
87.5°	62.2	51.5	79.3	107.2	109.4	109.4	105.1	100.8	83.6	64.3	49.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320504
 CATALOG NUMBER: GLEON-SA0D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320504

CATALOG NUMBER: GLEON-SA0D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2
2.5°	14143.5	14171.4	14197.1	14407.3	14615.3	14859.7	15104.1	15290.7	15475.1	15665.9	15856.8
5°	11311.0	11345.3	11379.6	11634.7	11887.8	12228.7	12569.6	12863.4	13157.2	13502.4	13847.6
7.5°	8384.0	8459.1	8532.0	8804.3	9074.5	9441.2	9805.7	10189.5	10571.2	11021.5	11471.8
10°	6585.0	6726.5	6865.9	7144.7	7423.4	7785.8	8146.0	8547.0	8948.0	9391.8	9833.6
12.5°	5330.6	5519.3	5705.9	6040.4	6374.9	6808.0	7239.0	7685.0	8128.9	8519.1	8909.4
15°	4211.3	4417.2	4620.9	4974.7	5328.5	5804.5	6278.4	6765.1	7249.7	7717.2	8184.6
17.5°	3285.0	3454.4	3621.7	3921.8	4219.9	4680.9	5141.9	5652.3	6162.6	6733.0	7301.2
20°	2650.3	2721.1	2791.8	3008.4	3222.8	3598.1	3971.2	4492.2	5013.3	5695.1	6377.0
22.5°	2322.2	2358.7	2393.0	2498.1	2601.0	2843.3	3083.4	3544.5	4003.3	4747.4	5489.3
25°	2125.0	2152.8	2180.7	2249.3	2317.9	2433.7	2549.5	2873.3	3197.1	3928.3	4657.3
27.5°	1947.0	1989.9	2030.6	2062.8	2092.8	2172.1	2249.3	2461.6	2673.9	3355.8	4035.5
30°	1818.3	1833.3	1848.3	1897.7	1944.8	2026.3	2107.8	2255.8	2403.7	2980.5	3555.2
32.5°	1668.2	1689.7	1711.1	1762.6	1814.0	1889.1	1964.1	2084.2	2202.2	2695.3	3186.4
35°	1533.1	1554.6	1576.0	1627.5	1676.8	1758.3	1837.6	1938.4	2037.0	2465.9	2894.7
37.5°	1449.5	1471.0	1492.4	1537.4	1580.3	1661.8	1741.1	1820.5	1897.7	2294.4	2691.0
40°	1378.8	1400.2	1421.6	1464.5	1505.3	1584.6	1661.8	1728.3	1794.7	2165.7	2536.7
42.5°	1316.6	1340.2	1363.7	1406.6	1447.4	1518.1	1588.9	1676.8	1762.6	2054.2	2343.7
45°	1265.1	1288.7	1310.1	1357.3	1404.5	1473.1	1541.7	1663.9	1786.2	1996.3	2206.4
47.5°	1217.9	1243.7	1267.3	1318.7	1370.2	1456.0	1539.6	1642.5	1743.3	1951.3	2159.3
50°	1172.9	1202.9	1232.9	1295.1	1355.2	1498.8	1640.4	1655.4	1668.2	1914.8	2159.3
52.5°	1130.0	1164.3	1198.6	1275.8	1350.9	1518.1	1685.4	1631.8	1576.0	1846.2	2116.4
55°	1087.1	1117.2	1145.0	1239.4	1333.7	1456.0	1578.2	1507.4	1434.5	1717.6	2000.6
57.5°	1029.2	1061.4	1091.4	1192.2	1293.0	1378.8	1462.4	1398.1	1331.6	1571.7	1809.8
60°	969.2	1005.7	1042.1	1170.8	1297.3	1282.3	1265.1	1252.2	1237.2	1408.8	1580.3
62.5°	915.6	954.2	992.8	1160.0	1327.3	1224.4	1121.4	1132.2	1140.7	1267.3	1393.8
65°	862.0	900.6	937.0	1020.7	1104.3	1063.6	1022.8	1040.0	1055.0	1179.3	1303.7
67.5°	802.0	836.3	868.4	896.3	924.2	928.5	932.8	949.9	967.1	1115.0	1260.8
70°	735.5	763.4	791.2	810.5	827.7	836.3	842.7	864.1	885.6	1046.4	1207.2
72.5°	660.4	684.0	705.5	722.6	739.8	746.2	750.5	771.9	793.4	964.9	1136.5
75°	578.9	598.2	615.4	630.4	645.4	654.0	662.6	677.6	692.6	879.1	1063.6
77.5°	488.9	508.2	525.3	538.2	548.9	557.5	563.9	583.2	602.5	759.1	913.5
80°	381.7	405.3	426.7	437.4	446.0	448.1	448.1	465.3	482.5	594.0	703.3
82.5°	270.2	295.9	319.5	328.1	336.6	336.6	336.6	355.9	375.2	450.3	523.2
85°	158.7	186.6	212.3	220.9	229.4	233.7	235.9	244.4	250.9	304.5	355.9
87.5°	49.3	72.9	94.3	98.6	102.9	111.5	120.1	122.2	122.2	158.7	195.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320504
 CATALOG NUMBER: GLEON-SA0D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320504

CATALOG NUMBER: GLEON-SA0D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2	16339.2
2.5°	16075.5	16294.2	16549.4	16802.4	17019.0	17235.5	17415.7
5°	14287.2	14726.8	15265.0	15801.0	16279.2	16757.4	17312.7
7.5°	12040.0	12608.2	13305.1	14002.0	14677.4	15350.7	16204.2
10°	10412.5	10989.3	11726.9	12462.4	13221.5	13978.4	14943.3
12.5°	9379.0	9846.4	10560.5	11274.5	12166.5	13056.4	13984.8
15°	8697.1	9207.4	9902.2	10596.9	11572.6	12548.2	13616.0
17.5°	7970.2	8637.1	9526.9	10416.8	11572.6	12726.2	13984.8
20°	7209.0	8038.8	9192.4	10346.0	11902.8	13457.4	15063.4
22.5°	6449.9	7410.6	8890.1	10367.5	12402.4	14435.1	16603.0
25°	5765.9	6874.5	8705.7	10534.7	13129.3	15721.7	18410.6
27.5°	5247.0	6456.4	8630.6	10802.8	14051.3	17299.9	20376.9
30°	4786.0	6016.8	8540.6	11064.4	14939.0	18811.6	21914.3
32.5°	4387.2	5587.9	8366.9	11143.7	15558.7	19973.8	23215.9
35°	4074.1	5253.4	8075.3	10897.1	15946.8	20996.6	24571.0
37.5°	3803.9	4916.8	7742.9	10569.0	16292.1	22015.1	26095.6
40°	3546.6	4556.5	7457.7	10356.8	16768.1	23179.4	27705.9
42.5°	3302.2	4260.6	7228.3	10195.9	17209.8	24221.5	29114.7
45°	3119.9	4033.3	7024.6	10013.7	17495.0	24976.3	30176.1
47.5°	3029.8	3898.3	6915.2	9930.1	17780.2	25628.2	31057.4
50°	3017.0	3874.7	7039.6	10204.5	18397.7	26588.8	32065.2
52.5°	3014.8	3913.3	7397.7	10882.1	19544.9	28205.6	33156.6
55°	2969.8	3936.9	7824.4	11709.8	21084.5	30457.0	35118.6
57.5°	2832.6	3855.4	8264.0	12670.4	22712.0	32751.4	37329.4
60°	2620.3	3658.1	8626.3	13592.4	23805.5	34016.5	38180.6
62.5°	2354.4	3312.9	8746.4	14177.8	23775.5	33373.2	37322.9
65°	2127.1	2950.5	8351.9	13751.1	22572.6	31391.9	35626.8
67.5°	1925.5	2588.1	7365.5	12140.8	20409.0	28675.2	33469.7
70°	1779.7	2350.1	6094.0	9837.9	17700.8	25561.7	30971.7
72.5°	1687.5	2236.5	4968.2	7697.9	14364.4	21028.7	26492.3
75°	1561.0	2058.5	3898.3	5735.9	10993.6	16251.3	20010.2
77.5°	1325.2	1734.7	2937.6	4140.6	8066.7	11990.7	13916.2
80°	1022.8	1340.2	2019.9	2699.6	5551.5	8403.3	9488.3
82.5°	729.0	934.9	1224.4	1513.8	3688.1	5860.3	5950.3
85°	450.3	544.6	701.2	857.7	2440.2	4022.6	3351.5
87.5°	242.3	289.5	371.0	450.3	780.5	1110.7	639.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320504
 CATALOG NUMBER: GLEON-SA0D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

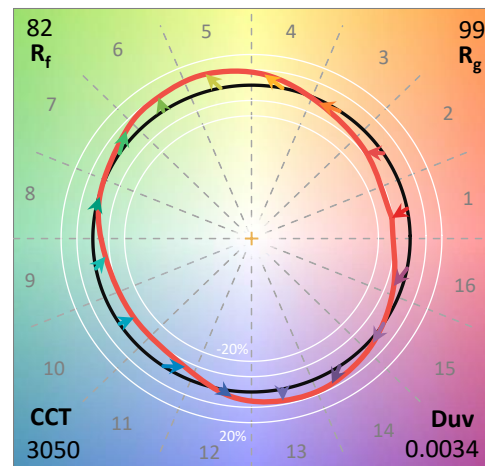
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

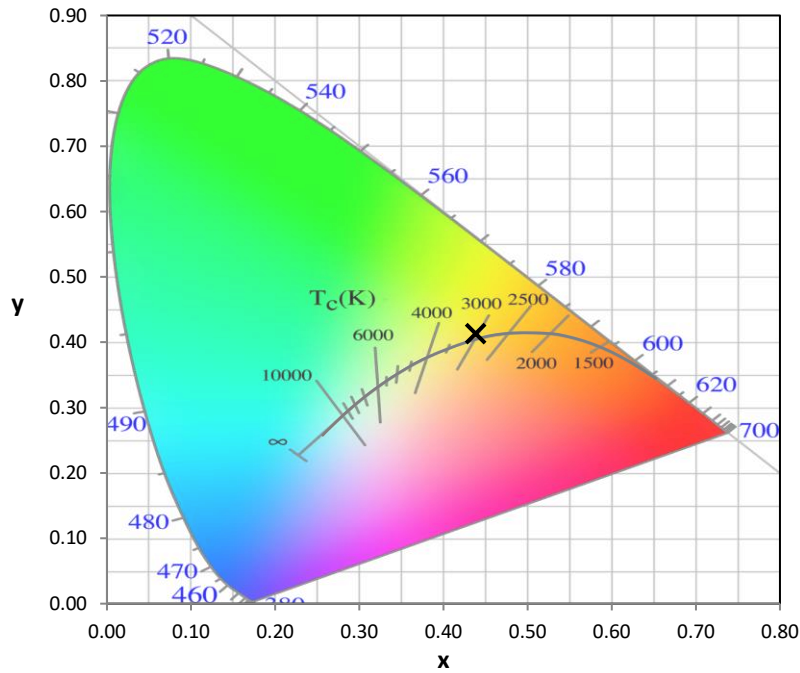
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

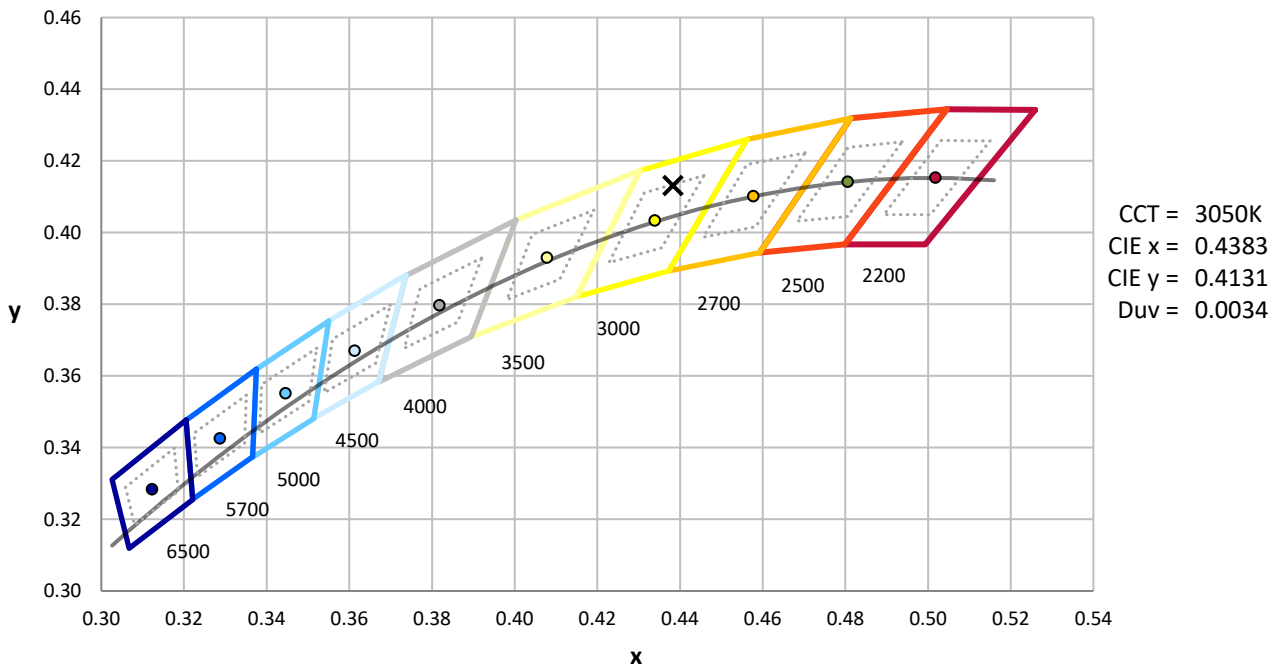
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



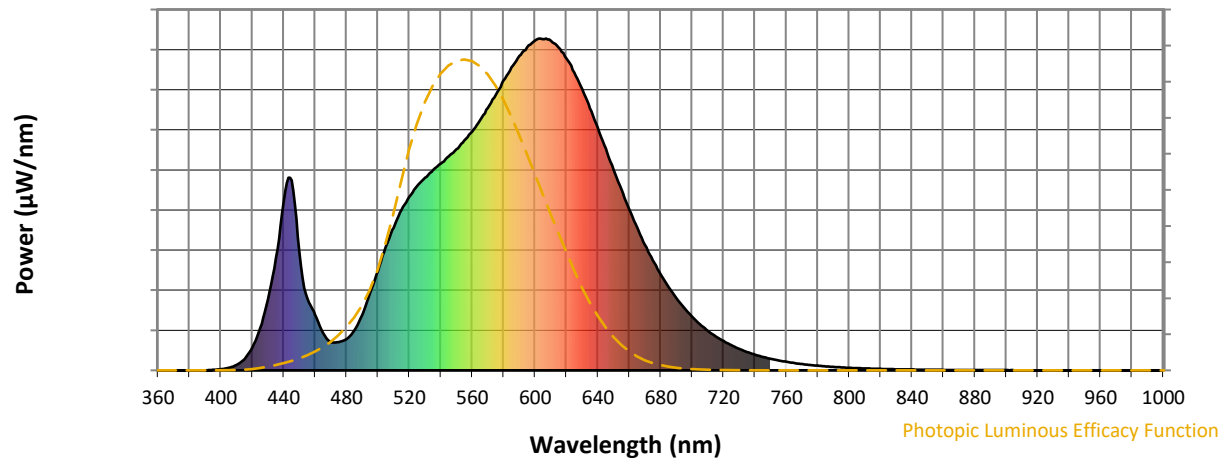
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

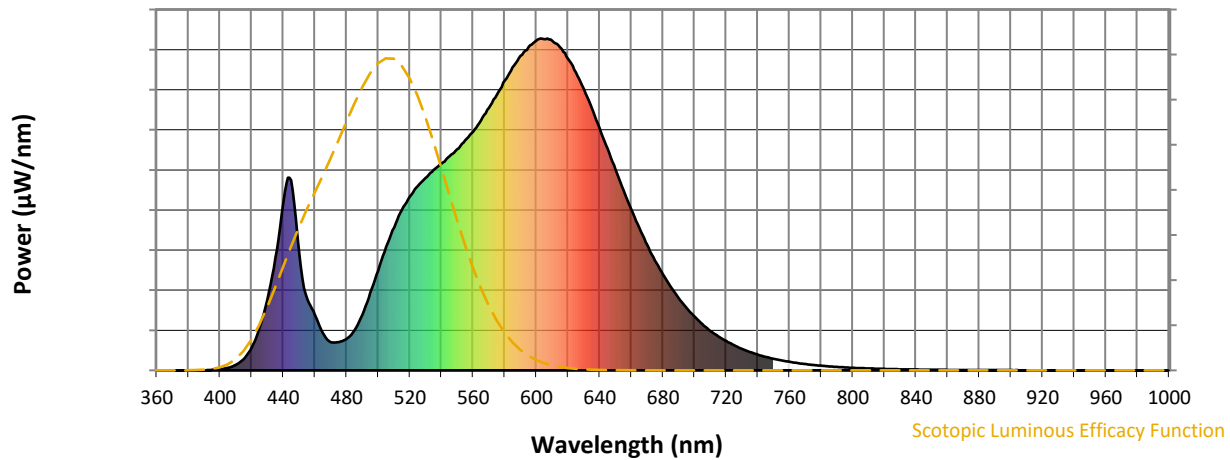


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



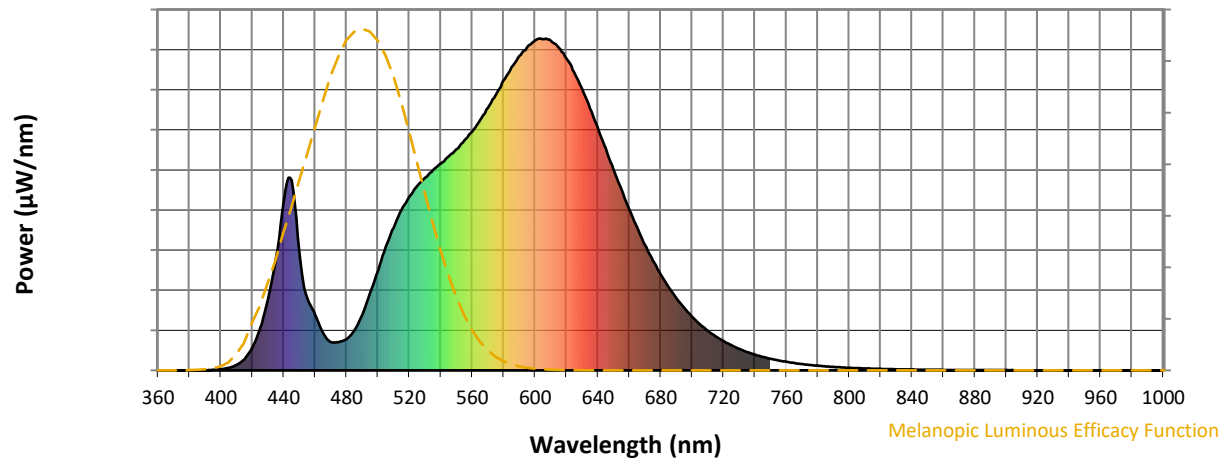
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

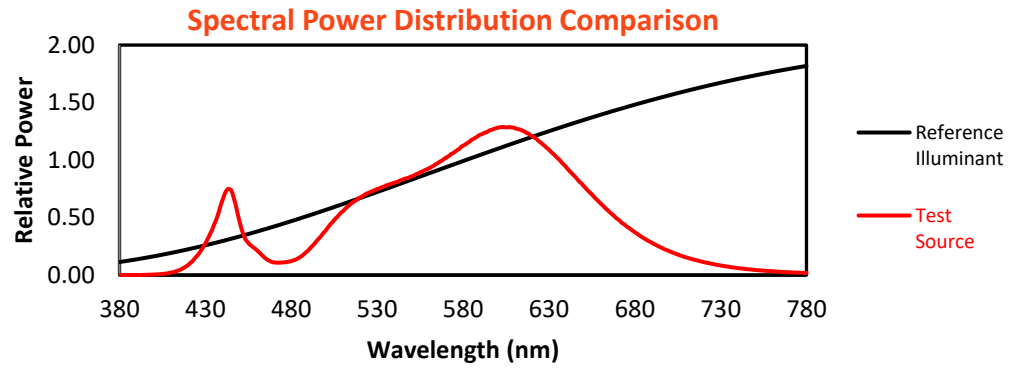
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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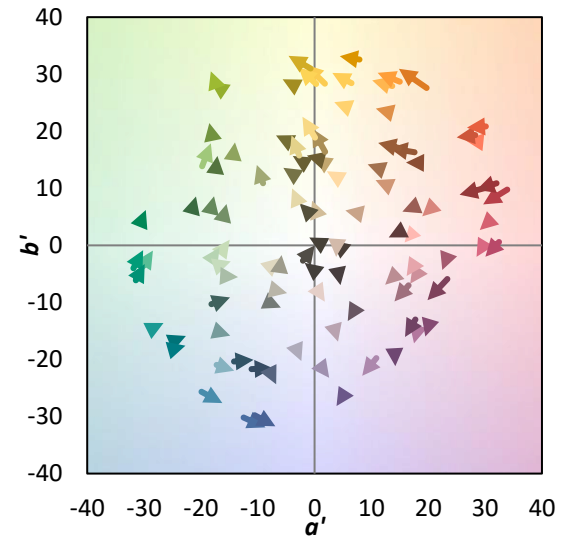
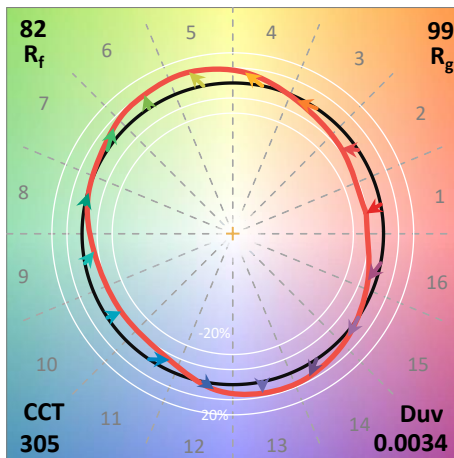
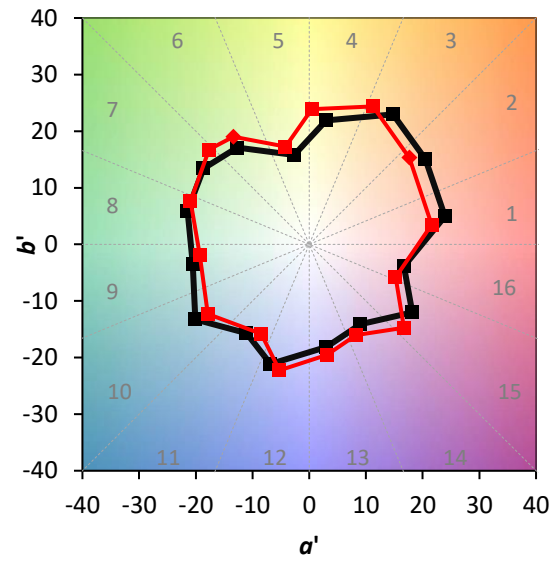
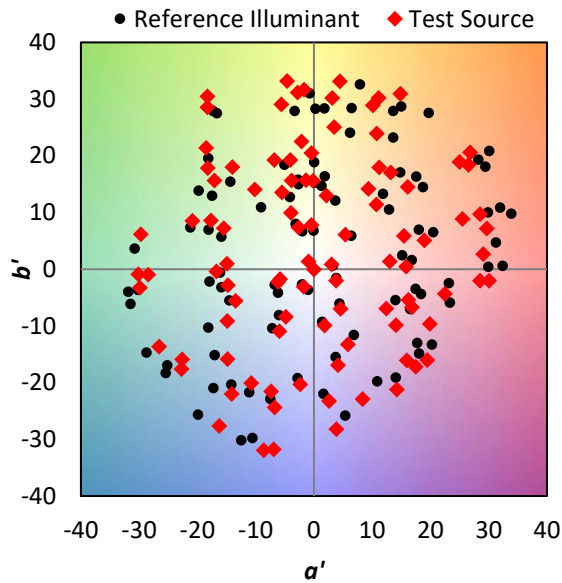
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$

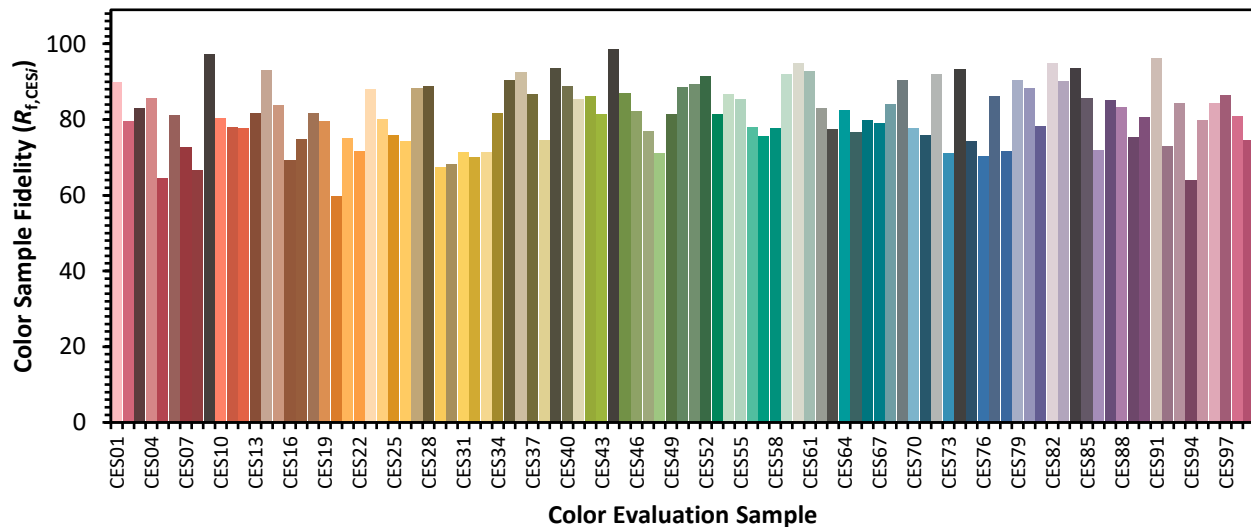


Color Vector Graphics

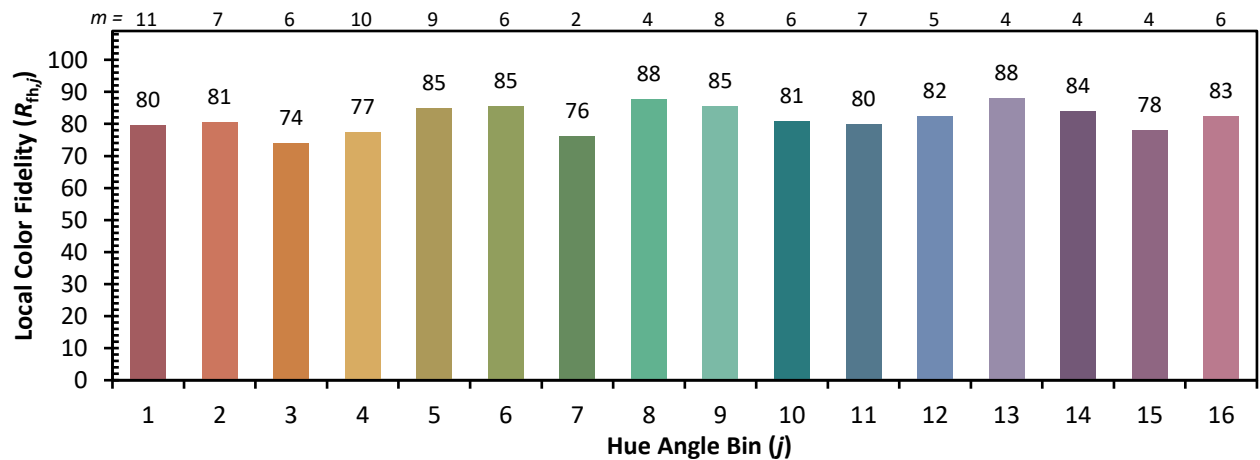
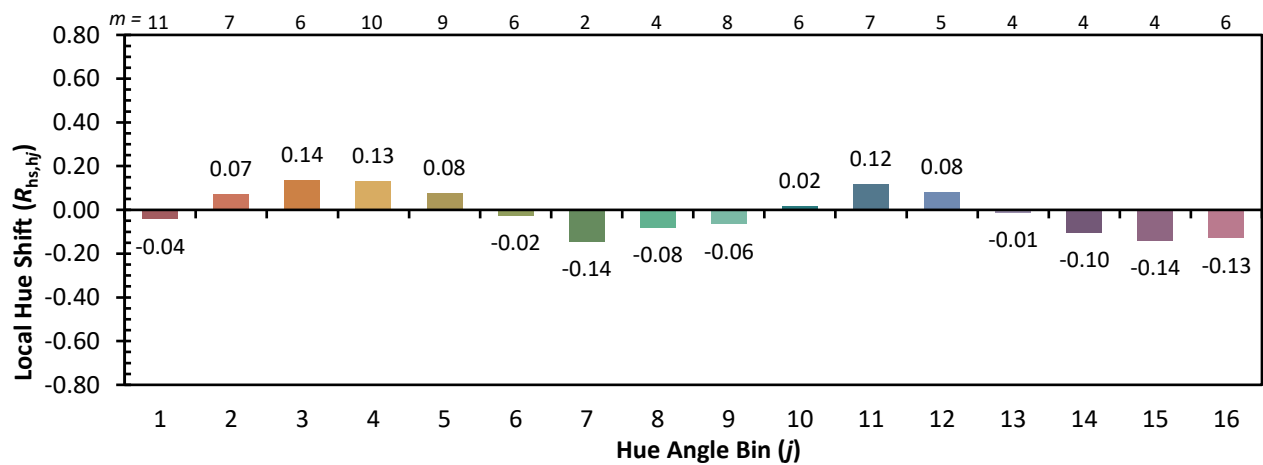
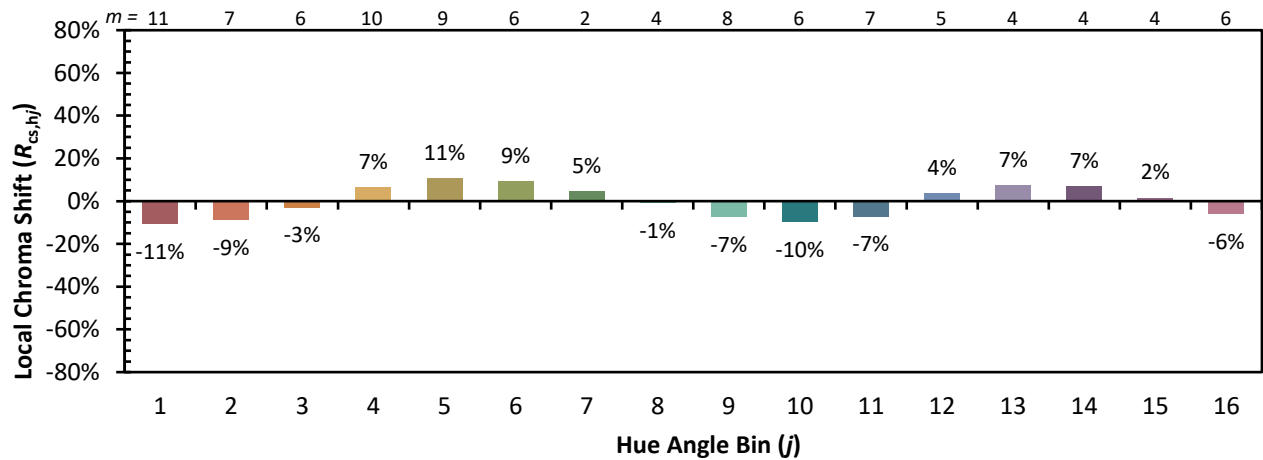


Individual Sample Fidelity Index ($R_{f,i}$)

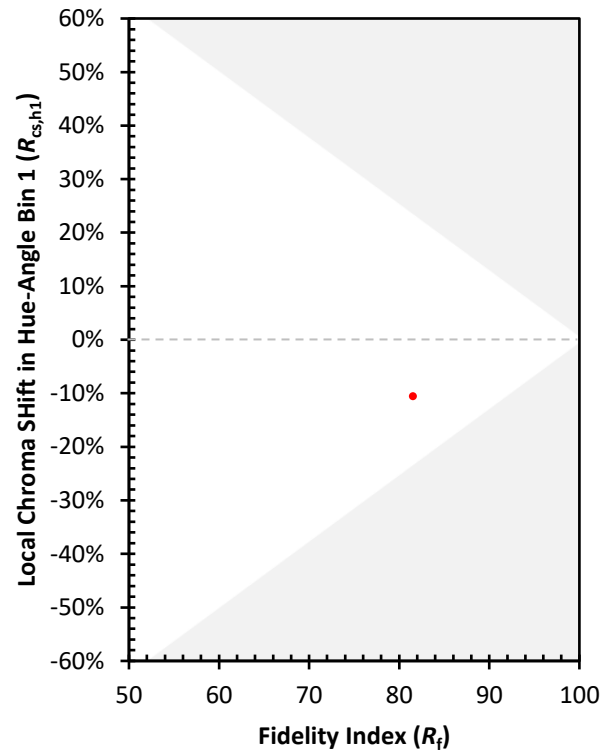
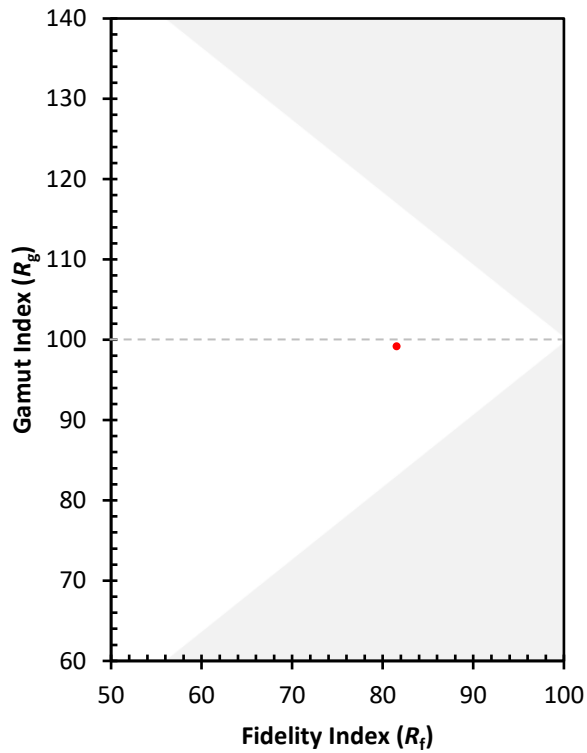
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)