

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: P320502

Luminaire Tested: **GLEON-SA8D-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320502
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-SA8D-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 43426 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

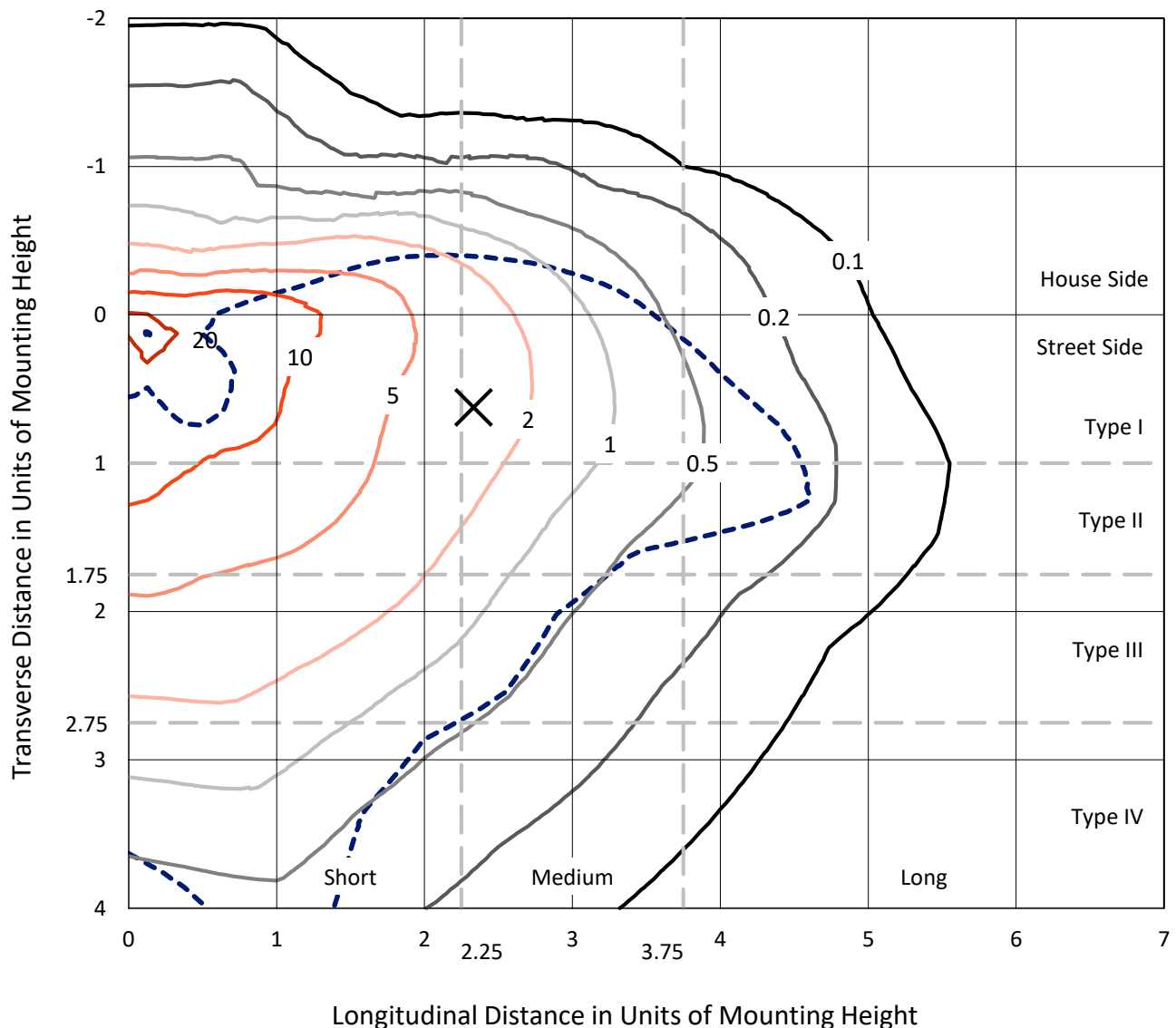
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

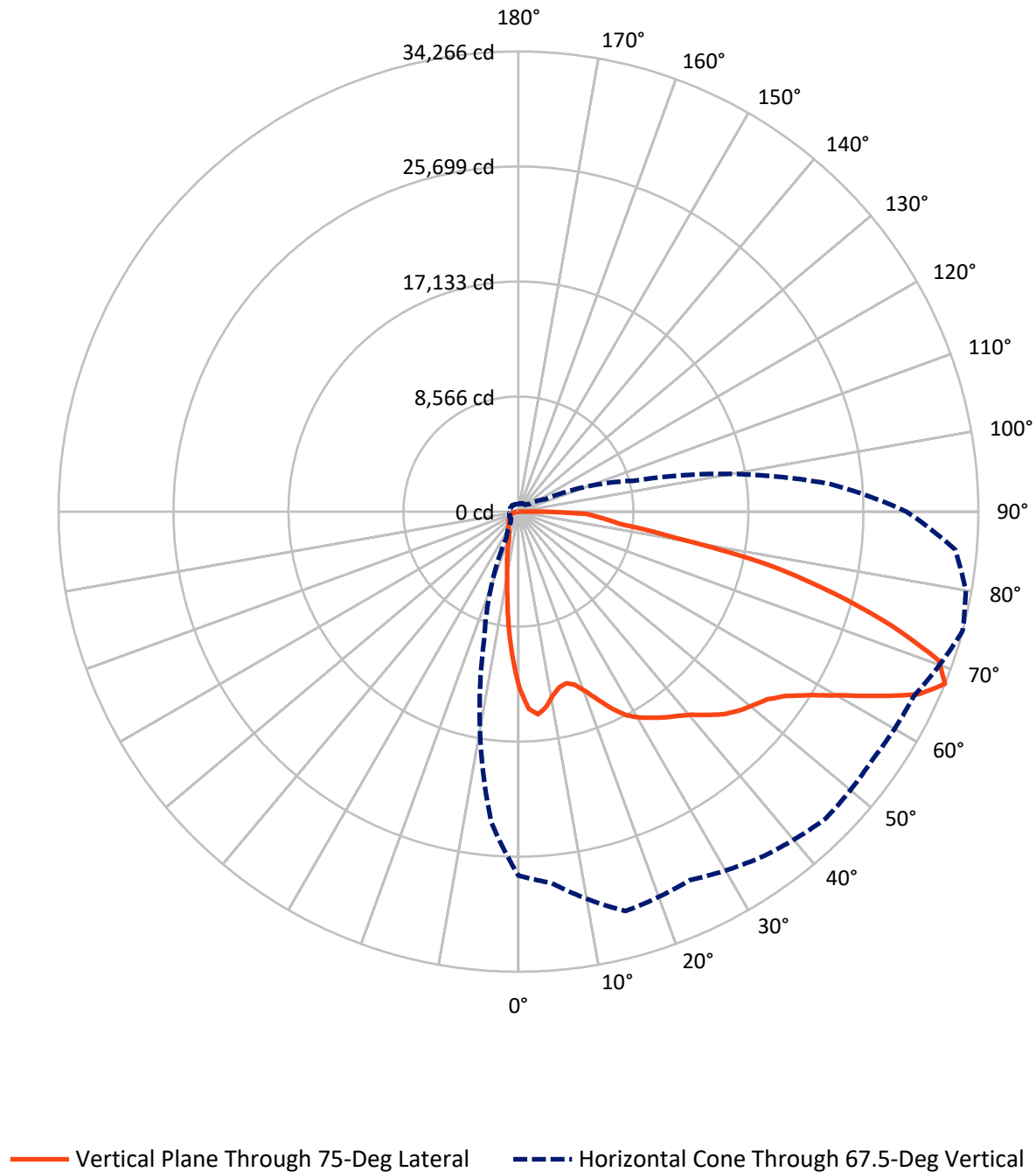
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.6 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	7648.4	0.0	7648.4
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	35777.6	0.0	35777.6
	% Fixture	82.4	0.0	82.4
Total	Lumens	43426.0	0.0	43426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1021.0	2.4
10°-20°	2121.1	4.9
20°-30°	3016.7	6.9
30°-40°	4347.1	10.0
40°-50°	6126.3	14.1
50°-60°	8516.6	19.6
60°-70°	10299.1	23.7
70°-80°	6330.7	14.6
80°-90°	1647.4	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°	43426.0	100.0
0°-180°	43426.0	100.0

Coefficient of Utilization



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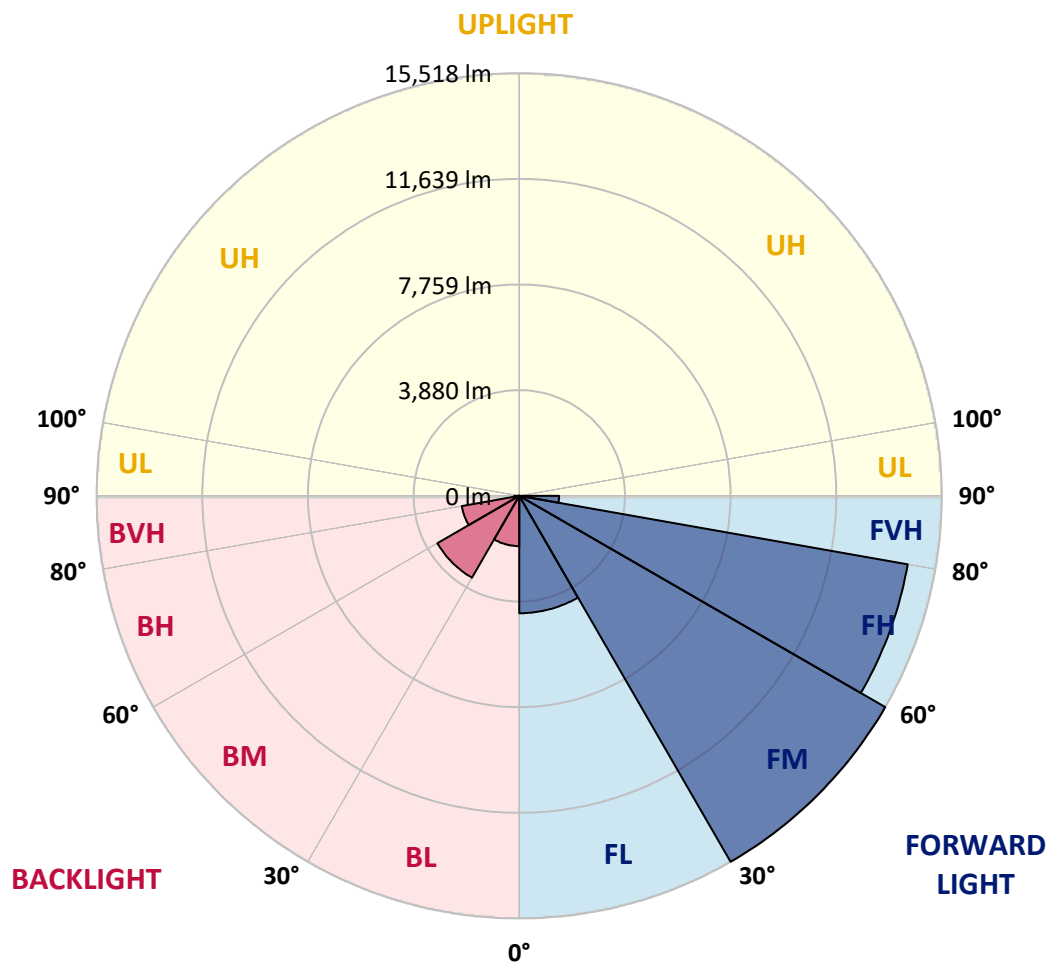
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4311.8	9.9			
FM	(30°-60°)	15518.1	35.7			
FH	(60°-80°)	14485.5	33.4			G5
FVH	(80°-90°)	1462.3	3.4			G5
BL	(0°-30°)	1847.2	4.3	B3/2500		
BM	(30°-60°)	3471.8	8.0	B3/5000		
BH	(60°-80°)	2144.3	4.9	B3/2500		G3/2500
BVH	(80°-90°)	185.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9
2.5°	14101.5	14287.3	14415.8	14542.5	14641.5	14738.7	14881.1	15023.4	15051.2	15077.3	15021.7
5°	14018.2	14471.3	14856.8	15240.5	15596.4	15952.3	16165.9	16379.4	16422.8	16466.2	16332.5
7.5°	13120.6	13789.0	14457.4	15125.9	15738.8	16351.6	16724.9	17096.5	17181.6	17264.9	17046.1
10°	12099.7	12877.5	13698.7	14519.9	15327.3	16134.6	16674.6	17214.5	17322.2	17429.8	17157.2
12.5°	11323.6	12172.6	13049.4	13926.2	14778.6	15629.4	16188.4	16747.5	16881.2	17014.9	16816.9
15°	11024.9	11955.6	12780.3	13605.0	14348.1	15089.4	15547.8	16004.4	16060.0	16113.8	16082.5
17.5°	11323.6	12349.7	13096.2	13841.1	14245.6	14648.4	14832.5	15014.8	15075.5	15134.6	15214.4
20°	12196.9	13304.6	13830.7	14355.0	14337.6	14318.5	14230.0	14139.7	14124.1	14108.5	14334.2
22.5°	13443.5	14730.0	14940.1	15148.4	14660.6	14172.7	13875.8	13577.2	13518.1	13457.4	13697.0
25°	14907.1	16277.0	16238.8	16198.9	15270.0	14339.4	13773.4	13207.4	13141.4	13075.4	13280.3
27.5°	16499.2	17808.3	17558.3	17308.3	16046.1	14783.8	13962.6	13141.4	13075.4	13009.4	13190.0
30°	17744.1	18931.7	18530.6	18129.5	16700.6	15271.7	14296.0	13320.2	13212.6	13103.2	13325.4
32.5°	18798.0	19808.4	19270.2	18732.0	17231.9	15731.8	14676.2	13620.6	13452.2	13283.8	13580.6
35°	19895.3	20683.5	19926.5	19167.8	17705.9	16242.3	15125.9	14007.8	13801.1	13594.5	14002.5
37.5°	21129.7	21784.3	20697.4	19608.8	18238.9	16869.0	15799.5	14728.3	14516.5	14304.6	14825.5
40°	22433.6	22978.8	21529.0	20079.3	18822.3	17565.3	16731.9	15896.8	15695.4	15492.2	16124.2
42.5°	23574.3	23971.9	22303.4	20634.9	19525.4	18414.3	17827.4	17238.8	17237.1	17233.6	17874.3
45°	24433.7	24779.2	22949.2	21117.5	20211.2	19303.2	18997.6	18692.1	18936.9	19181.7	19761.6
47.5°	25147.3	25381.7	23490.9	21598.5	20996.0	20393.5	20438.7	20483.8	20982.1	21480.4	21853.7
50°	25963.3	25774.1	23982.3	22188.8	22003.0	21817.2	22223.5	22628.0	23201.0	23772.2	24025.7
52.5°	26847.0	26345.3	24649.0	22951.0	23159.3	23367.7	24194.1	25020.5	25598.7	26176.9	26272.4
55°	28435.7	27666.5	25874.8	24081.3	24482.3	24881.7	26095.3	27307.1	27758.6	28210.0	28244.7
57.5°	30225.7	29543.4	27591.9	25640.4	26071.0	26501.5	27902.7	29302.0	29789.9	30276.1	30208.4
60°	30915.0	30948.0	29222.2	27494.7	27928.7	28362.8	29727.4	31092.1	31652.9	32211.9	32062.6
62.5°	30220.5	31034.8	30112.9	29189.2	29583.3	29975.7	31312.6	32649.5	33224.2	33798.8	33538.4
65°	28847.2	29654.5	30067.7	30480.9	30611.2	30741.4	31989.7	33236.3	33677.3	34116.6	33984.6
67.5°	27100.5	27753.3	29277.7	30800.4	30538.2	30276.1	30861.2	31446.3	31899.4	32352.6	32277.9
70°	25077.8	25855.7	27888.8	29921.9	28633.6	27343.6	27102.3	26860.9	27350.5	27838.4	27536.3
72.5°	21450.9	22624.6	24793.1	26959.9	24586.5	22213.1	21388.4	20563.7	21183.5	21803.3	21322.4
75°	16202.3	17759.7	20155.7	22549.9	19718.2	16886.4	15785.6	14684.9	15217.9	15750.9	15421.0
77.5°	11268.0	13221.3	15580.8	17940.3	15061.6	12181.3	11363.5	10544.0	10703.7	10861.7	10806.2
80°	7682.7	8967.5	10613.5	12257.7	10340.9	8424.1	8488.3	8550.8	8476.2	8399.8	8510.9
82.5°	4818.0	5722.6	6993.5	8262.6	7245.2	6227.8	6811.2	7394.5	7108.1	6819.8	6927.5
85°	2713.7	3265.8	4508.9	5750.3	5359.7	4967.3	5309.3	5649.6	5205.2	4760.7	4956.9
87.5°	517.4	861.2	2494.9	4127.0	3746.7	3366.5	2925.5	2484.5	1895.9	1307.4	1909.8
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°	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9
2.5°	14966.1	14936.6	14907.1	14801.2	14693.6	14533.8	14401.9	14172.7	14047.7	13858.4	13669.2
5°	16197.1	16009.6	15822.1	15499.2	15174.5	14813.4	14398.4	13938.3	13591.1	13139.7	12688.2
7.5°	16827.4	16389.8	15950.6	15330.8	14709.2	14150.1	13493.8	12882.7	12361.8	11775.0	11188.1
10°	16884.7	16228.4	15570.3	14764.7	13957.4	13278.5	12523.3	11844.4	11219.4	10545.8	9870.4
12.5°	16617.3	15919.3	15219.6	14332.4	13443.5	12672.6	11860.1	11099.6	10406.9	9665.5	8922.4
15°	16051.3	15494.0	14934.9	14103.2	13271.6	12493.8	11705.5	10804.4	10021.4	9262.7	8502.2
17.5°	15292.6	15028.6	14763.0	14162.3	13559.8	12886.2	12122.2	11064.9	10148.2	9323.5	8498.8
20°	14558.1	14655.4	14750.9	14511.3	14271.7	13731.7	13065.0	11877.4	10707.2	9629.0	8549.1
22.5°	13934.8	14401.9	14867.2	15053.0	15237.0	14912.3	14391.5	13018.1	11469.4	10061.3	8653.3
25°	13483.4	14257.8	15032.1	15650.2	16266.6	16122.5	15721.4	14403.6	12479.9	10684.6	8887.7
27.5°	13370.6	14320.3	15270.0	16228.4	17185.0	17318.7	17207.6	15863.8	13684.8	11459.0	9231.4
30°	13547.7	14509.5	15469.6	16636.4	17801.4	18334.4	18483.7	17080.9	15061.6	12361.8	9660.3
32.5°	13877.5	14820.3	15763.1	17034.0	18303.1	19108.7	19584.5	18193.8	16021.8	13042.4	10061.3
35°	14410.6	15292.6	16174.5	17497.5	18820.5	19862.3	20730.4	19343.1	16874.2	13518.1	10160.3
37.5°	15344.6	16103.4	16862.1	18084.4	19304.9	20655.7	21959.6	20608.8	17796.2	13976.5	10155.1
40°	16756.2	17292.7	17827.4	18860.5	19891.8	21591.5	23352.0	22020.4	18815.3	14473.1	10130.8
42.5°	18515.0	18791.0	19065.3	19883.1	20700.9	22569.0	24616.0	23400.7	19787.6	14934.9	10082.2
45°	20339.7	20412.6	20485.6	21001.2	21515.1	23343.4	25477.2	24437.2	20636.6	15336.0	10033.6
47.5°	22225.2	21975.2	21725.2	21930.1	22135.0	23937.2	26091.8	25223.7	21489.1	15780.4	10070.0
50°	24279.2	23583.0	22886.7	22779.1	22671.5	24530.9	26815.8	26223.7	22513.5	16428.0	10342.6
52.5°	26366.1	25218.5	24070.8	23645.5	23218.4	25239.3	27775.9	27468.6	23975.3	17431.6	10886.0
55°	28279.4	26819.3	25359.1	24786.2	24213.2	26322.7	28947.9	29296.8	25848.7	18714.6	11578.8
57.5°	30138.9	28484.3	26829.7	26298.4	25767.1	27914.8	30432.3	30937.6	27741.2	19945.6	12148.3
60°	31913.3	30276.1	28637.1	28211.7	27784.6	29894.1	32036.6	31668.5	28716.9	20522.0	12325.4
62.5°	33278.0	31975.8	30673.7	30449.7	30224.0	31895.9	33269.3	31383.8	28097.1	19954.3	11811.4
65°	33852.7	33111.3	32368.2	32578.3	32786.6	33409.9	33576.6	30550.4	26149.1	18363.9	10578.7
67.5°	32201.5	32352.6	32503.6	33385.6	34265.9	33837.0	32663.4	28907.9	23376.4	16110.3	8844.3
70°	27232.5	28138.8	29043.4	31130.3	33215.5	32264.0	30217.0	25959.8	20039.4	13514.7	6988.3
72.5°	20839.8	21858.9	22876.3	25973.7	29069.4	28192.6	25685.5	21322.4	16066.9	10792.3	5515.9
75°	15089.4	16240.5	17389.9	20806.8	24223.6	23006.5	19212.9	15266.5	12203.8	8238.3	4271.1
77.5°	10748.9	11519.8	12290.6	15665.8	19039.3	17056.5	12788.9	10273.2	8446.7	5726.0	3003.6
80°	8622.0	8385.9	8149.8	10030.1	11910.4	11580.5	8458.8	6597.6	5845.8	3837.0	1828.2
82.5°	7033.4	6457.0	5880.5	6766.0	7651.5	7602.9	5870.1	4840.6	4350.9	2666.8	982.7
85°	5151.3	4920.4	4689.5	5472.5	6255.6	5587.1	3975.9	3076.6	3392.6	1963.7	534.8
87.5°	2512.3	2870.0	3225.9	4149.5	5071.5	3807.5	1206.7	597.3	826.4	543.4	258.7
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



REPORT NUMBER: P320502
 CATALOG NUMBER: GLEON-SA8D-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: P320502

CATALOG NUMBER: GLEON-SA8D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9
2.5°	13528.6	13386.2	13224.7	13063.3	12879.2	12693.4	12584.1	12472.9	12353.1	12233.3	12097.9
5°	12389.6	12091.0	11752.4	11413.9	11078.8	10743.7	10563.1	10382.5	10191.6	9998.8	9832.2
7.5°	10754.1	10318.3	9849.5	9379.0	8962.3	8543.9	8285.2	8024.8	7788.6	7550.8	7351.1
10°	9314.8	8759.2	8288.7	7816.4	7502.2	7187.9	6950.1	6712.2	6483.0	6252.1	6031.6
12.5°	8366.8	7811.2	7512.6	7214.0	6953.5	6693.1	6418.8	6142.7	5828.5	5512.5	5281.6
15°	7997.0	7491.8	7160.1	6826.8	6477.8	6127.1	5790.3	5453.4	5081.9	4710.3	4448.2
17.5°	7837.3	7175.8	6712.2	6246.9	5786.8	5326.7	4936.1	4545.4	4139.1	3732.9	3467.2
20°	7668.8	6788.6	6167.0	5543.7	4953.4	4363.1	3920.4	3477.6	3114.8	2751.9	2548.8
22.5°	7516.1	6377.1	5597.5	4816.3	4118.3	3420.3	2986.3	2550.5	2328.3	2106.0	2024.4
25°	7453.6	6017.7	5059.3	4100.9	3364.8	2626.9	2317.8	2008.8	1923.7	1836.9	1795.2
27.5°	7464.0	5696.5	4606.2	3514.1	2850.9	2187.6	1975.8	1764.0	1711.9	1658.1	1632.0
30°	7503.9	5347.5	4179.1	3010.6	2463.7	1916.8	1779.6	1640.7	1585.2	1529.6	1496.6
32.5°	7549.0	5035.0	3849.2	2661.6	2215.4	1767.5	1654.6	1540.0	1486.2	1432.4	1399.4
35°	7470.9	4779.8	3623.5	2467.2	2055.7	1642.5	1547.0	1449.7	1390.7	1331.7	1300.4
37.5°	7339.0	4522.8	3448.1	2371.7	1951.5	1529.6	1460.2	1389.0	1328.2	1265.7	1236.2
40°	7219.2	4305.8	3317.9	2328.3	1894.2	1458.4	1399.4	1340.4	1277.9	1213.6	1178.9
42.5°	7121.9	4160.0	3189.4	2218.9	1842.1	1463.6	1380.3	1295.2	1234.4	1173.7	1135.5
45°	7049.0	4064.5	3088.7	2113.0	1793.5	1474.0	1368.1	1262.2	1201.5	1139.0	1093.8
47.5°	7042.1	4014.1	3017.5	2021.0	1701.5	1380.3	1336.9	1293.5	1204.9	1114.6	1062.6
50°	7137.6	3932.5	2934.2	1934.1	1612.9	1291.7	1350.8	1408.1	1257.0	1104.2	1038.3
52.5°	7337.2	3788.4	2802.2	1816.1	1505.3	1192.8	1284.8	1375.1	1244.9	1112.9	1027.8
55°	7578.6	3576.6	2602.6	1626.8	1362.9	1097.3	1178.9	1258.8	1177.2	1093.8	991.4
57.5°	7729.6	3309.2	2350.8	1392.4	1203.2	1013.9	1060.8	1106.0	1073.0	1040.0	935.8
60°	7639.3	2953.3	2067.8	1180.6	1062.6	944.5	935.8	925.4	974.0	1022.6	902.8
62.5°	7198.3	2585.2	1817.8	1050.4	961.9	871.6	852.5	831.6	911.5	989.6	862.9
65°	6453.5	2328.3	1659.8	991.4	892.4	793.4	772.6	751.8	776.1	800.4	741.4
67.5°	5507.3	2170.3	1569.5	968.8	849.0	727.5	703.2	678.9	673.7	668.4	647.6
70°	4531.5	2073.0	1510.5	948.0	802.1	654.6	632.0	609.4	602.5	593.8	578.2
72.5°	3788.4	2060.9	1503.6	946.2	763.9	581.6	560.8	540.0	531.3	520.9	508.7
75°	3102.6	1934.1	1427.2	920.2	711.8	501.8	482.7	463.6	456.6	447.9	437.5
77.5°	2302.2	1600.8	1199.7	798.7	609.4	420.2	401.1	380.2	378.5	375.0	366.3
80°	1493.1	1158.1	857.7	557.3	444.5	329.9	314.3	296.9	298.6	300.4	293.4
82.5°	829.9	675.4	524.3	373.3	303.8	234.4	227.4	218.8	224.0	227.4	218.8
85°	437.5	340.3	281.3	222.2	175.4	128.5	128.5	126.7	133.7	140.6	133.7
87.5°	189.2	119.8	102.4	83.3	46.9	8.7	10.4	10.4	13.9	17.4	15.6
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: P320502
 CATALOG NUMBER: GLEON-SA8D-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: P320502

CATALOG NUMBER: GLEON-SA8D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9
2.5°	11960.8	11834.0	11705.5	11564.9	11591.0	11483.3	11375.7	11307.9	11240.2	11219.4	11198.6
5°	9665.5	9521.4	9375.5	9245.3	9358.2	9281.8	9205.4	9195.0	9182.8	9182.8	9181.1
7.5°	7151.5	6996.9	6840.7	6733.0	6844.1	6830.3	6816.4	6891.0	6965.7	7026.4	7085.5
10°	5811.1	5623.6	5434.3	5274.6	5246.8	5167.0	5085.4	5102.7	5118.4	5184.3	5250.3
12.5°	5050.6	4826.7	4602.7	4415.2	4330.1	4198.2	4064.5	3981.1	3897.8	3906.5	3913.4
15°	4184.3	3967.2	3748.5	3587.0	3533.2	3430.8	3328.3	3224.1	3118.2	3074.8	3029.7
17.5°	3199.8	3026.2	2850.9	2743.2	2743.2	2713.7	2684.2	2632.1	2578.3	2534.9	2489.7
20°	2345.6	2253.6	2159.8	2114.7	2128.6	2130.3	2130.3	2156.4	2182.4	2168.5	2154.6
22.5°	1941.1	1908.1	1875.1	1856.0	1863.0	1864.7	1866.4	1890.7	1913.3	1930.7	1946.3
25°	1751.8	1731.0	1710.2	1703.2	1718.8	1720.6	1720.6	1736.2	1751.8	1769.2	1786.6
27.5°	1604.3	1595.6	1586.9	1574.7	1590.4	1590.4	1588.6	1606.0	1621.6	1637.2	1651.1
30°	1463.6	1467.1	1468.8	1465.4	1475.8	1482.7	1487.9	1500.1	1510.5	1522.7	1534.8
32.5°	1364.7	1359.5	1354.2	1350.8	1373.3	1385.5	1397.7	1409.8	1420.2	1425.4	1430.6
35°	1269.2	1257.0	1244.9	1236.2	1257.0	1272.6	1288.3	1310.8	1331.7	1335.1	1338.6
37.5°	1204.9	1189.3	1173.7	1163.3	1171.9	1178.9	1185.8	1210.1	1234.4	1248.3	1260.5
40°	1144.2	1128.5	1112.9	1104.2	1109.4	1111.2	1112.9	1125.1	1135.5	1161.5	1185.8
42.5°	1095.5	1076.5	1057.4	1046.9	1050.4	1053.9	1055.6	1053.9	1052.1	1076.5	1100.8
45°	1046.9	1026.1	1005.3	993.1	994.8	994.8	994.8	991.4	986.2	998.3	1010.5
47.5°	1008.7	984.4	960.1	948.0	944.5	941.0	937.6	935.8	932.3	941.0	948.0
50°	970.5	944.5	916.7	902.8	894.1	890.7	887.2	885.5	882.0	890.7	897.6
52.5°	941.0	909.8	878.5	856.0	847.3	842.1	836.9	838.6	838.6	842.1	843.8
55°	888.9	861.2	831.6	816.0	800.4	796.9	793.4	798.7	802.1	802.1	802.1
57.5°	831.6	805.6	777.8	767.4	753.5	753.5	751.8	758.7	763.9	767.4	770.9
60°	781.3	751.8	722.3	713.6	708.4	706.6	704.9	713.6	720.5	727.5	734.4
62.5°	734.4	703.2	671.9	661.5	659.8	661.5	661.5	670.2	677.1	684.1	691.0
65°	682.3	651.1	618.1	607.7	611.1	616.4	621.6	628.5	633.7	640.7	647.6
67.5°	625.0	599.0	571.2	560.8	562.5	569.5	576.4	581.6	585.1	592.0	599.0
70°	562.5	540.0	517.4	510.4	508.7	517.4	524.3	527.8	531.3	540.0	546.9
72.5°	494.8	475.7	456.6	451.4	453.2	458.4	463.6	468.8	472.2	480.9	487.9
75°	425.4	408.0	390.6	387.2	390.6	395.9	401.1	404.5	408.0	418.4	427.1
77.5°	357.7	338.6	317.7	316.0	321.2	326.4	329.9	335.1	340.3	354.2	368.1
80°	286.5	265.6	243.1	241.3	246.5	251.8	257.0	262.2	267.4	284.7	300.4
82.5°	210.1	185.8	161.5	158.0	175.4	180.6	185.8	194.5	201.4	217.0	232.7
85°	126.7	102.4	78.1	76.4	92.0	100.7	109.4	119.8	128.5	142.4	156.3
87.5°	13.9	6.9	0.0	0.0	1.7	8.7	15.6	24.3	33.0	46.9	59.0
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: P320502

CATALOG NUMBER: GLEON-SA8D-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: P320502

CATALOG NUMBER: GLEON-SA8D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9
2.5°	11122.2	11044.0	11123.9	11202.0	11235.0	11268.0	11182.9	11096.1	11231.6	11365.2	11400.0
5°	9111.6	9040.5	9094.3	9146.4	9030.0	8913.7	8901.6	8887.7	8988.4	9089.1	9104.7
7.5°	7062.9	7040.3	7090.7	7141.0	6993.5	6844.1	6771.2	6698.3	6722.6	6746.9	6743.4
10°	5265.9	5279.8	5342.3	5403.1	5288.5	5173.9	5123.6	5073.2	5128.8	5182.6	5232.9
12.5°	3944.7	3974.2	4040.2	4104.4	4057.5	4008.9	4014.1	4019.3	4083.6	4146.1	4201.6
15°	3064.4	3099.1	3146.0	3191.2	3192.9	3192.9	3238.0	3281.4	3276.2	3271.0	3309.2
17.5°	2536.6	2581.7	2587.0	2592.2	2593.9	2595.6	2592.2	2588.7	2562.6	2536.6	2566.1
20°	2172.0	2187.6	2201.5	2213.7	2198.0	2180.7	2137.3	2093.9	2076.5	2059.1	2086.9
22.5°	1975.8	2003.6	1989.7	1974.1	1942.8	1909.8	1876.8	1842.1	1840.4	1836.9	1852.5
25°	1810.9	1833.4	1809.1	1784.8	1762.3	1739.7	1717.1	1694.5	1692.8	1691.1	1698.0
27.5°	1673.7	1694.5	1672.0	1649.4	1630.3	1611.2	1593.8	1576.5	1573.0	1569.5	1571.3
30°	1555.6	1574.7	1555.6	1534.8	1520.9	1505.3	1493.1	1481.0	1479.3	1477.5	1477.5
32.5°	1449.7	1468.8	1454.9	1441.1	1428.9	1416.7	1408.1	1399.4	1390.7	1382.0	1362.9
35°	1357.7	1376.8	1368.1	1357.7	1343.8	1329.9	1314.3	1297.0	1274.4	1250.1	1239.7
37.5°	1279.6	1298.7	1290.0	1281.3	1262.2	1243.1	1215.3	1185.8	1178.9	1170.2	1168.5
40°	1217.1	1246.6	1229.2	1210.1	1180.6	1151.1	1137.2	1123.3	1119.9	1116.4	1112.9
42.5°	1147.6	1192.8	1161.5	1130.3	1102.5	1074.7	1071.2	1067.8	1066.0	1064.3	1064.3
45°	1060.8	1109.4	1078.2	1045.2	1029.6	1013.9	1013.9	1013.9	1015.7	1015.7	1019.2
47.5°	979.2	1008.7	993.1	977.5	968.8	960.1	961.9	963.6	968.8	972.3	981.0
50°	909.8	920.2	923.7	925.4	920.2	915.0	918.5	920.2	925.4	928.9	935.8
52.5°	859.4	875.1	875.1	873.3	873.3	873.3	876.8	880.3	885.5	890.7	897.6
55°	826.4	849.0	842.1	835.1	836.9	836.9	840.3	843.8	849.0	852.5	862.9
57.5°	795.2	819.5	812.5	805.6	805.6	805.6	807.3	809.1	814.3	817.8	824.7
60°	758.7	783.0	776.1	767.4	769.1	770.9	772.6	772.6	776.1	777.8	777.8
62.5°	715.3	739.6	732.7	724.0	729.2	732.7	732.7	732.7	736.2	737.9	732.7
65°	670.2	692.7	685.8	678.9	685.8	691.0	694.5	696.2	694.5	692.7	687.5
67.5°	621.6	644.1	637.2	628.5	637.2	644.1	651.1	656.3	651.1	645.9	638.9
70°	569.5	592.0	583.4	574.7	583.4	592.0	599.0	605.9	599.0	592.0	590.3
72.5°	513.9	540.0	529.5	519.1	529.5	540.0	543.4	546.9	541.7	536.5	533.0
75°	453.2	479.2	470.5	460.1	468.8	477.5	479.2	480.9	480.9	479.2	468.8
77.5°	388.9	409.7	404.5	399.3	404.5	409.7	409.7	409.7	411.5	411.5	397.6
80°	312.5	324.7	326.4	328.1	329.9	331.6	329.9	328.1	324.7	321.2	312.5
82.5°	232.7	232.7	246.5	258.7	258.7	257.0	255.2	251.8	244.8	236.1	217.0
85°	147.6	138.9	161.5	182.3	182.3	180.6	177.1	171.9	158.0	142.4	126.7
87.5°	50.4	41.7	64.2	86.8	88.5	88.5	85.1	81.6	67.7	52.1	39.9
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: P320502
 CATALOG NUMBER: GLEON-SA8D-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: P320502

CATALOG NUMBER: GLEON-SA8D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9
2.5°	11452.1	11474.6	11495.5	11665.6	11834.0	12031.9	12229.9	12380.9	12530.2	12684.8	12839.3
5°	9158.5	9186.3	9214.1	9420.7	9625.6	9901.6	10177.7	10415.5	10653.4	10932.9	11212.5
7.5°	6788.6	6849.4	6908.4	7128.9	7347.6	7644.5	7939.7	8250.5	8559.5	8924.1	9288.7
10°	5331.9	5446.5	5559.4	5785.1	6010.8	6304.2	6595.9	6920.5	7245.2	7604.6	7962.3
12.5°	4316.2	4469.0	4620.1	4890.9	5161.8	5512.5	5861.5	6222.6	6582.0	6898.0	7214.0
15°	3409.9	3576.6	3741.5	4028.0	4314.5	4699.9	5083.6	5477.7	5870.1	6248.6	6627.1
17.5°	2659.9	2797.0	2932.5	3175.5	3416.9	3790.2	4163.4	4576.7	4989.9	5451.7	5911.8
20°	2146.0	2203.3	2260.5	2435.9	2609.5	2913.4	3215.5	3637.4	4059.3	4611.4	5163.5
22.5°	1880.3	1909.8	1937.6	2022.7	2106.0	2302.2	2496.7	2870.0	3241.5	3844.0	4444.7
25°	1720.6	1743.2	1765.7	1821.3	1876.8	1970.6	2064.4	2326.5	2588.7	3180.7	3771.1
27.5°	1576.5	1611.2	1644.2	1670.2	1694.5	1758.8	1821.3	1993.2	2165.1	2717.2	3267.6
30°	1472.3	1484.5	1496.6	1536.5	1574.7	1640.7	1706.7	1826.5	1946.3	2413.3	2878.6
32.5°	1350.8	1368.1	1385.5	1427.2	1468.8	1529.6	1590.4	1687.6	1783.1	2182.4	2580.0
35°	1241.4	1258.8	1276.1	1317.8	1357.7	1423.7	1487.9	1569.5	1649.4	1996.6	2343.9
37.5°	1173.7	1191.0	1208.4	1244.9	1279.6	1345.6	1409.8	1474.0	1536.5	1857.7	2178.9
40°	1116.4	1133.7	1151.1	1185.8	1218.8	1283.1	1345.6	1399.4	1453.2	1753.6	2053.9
42.5°	1066.0	1085.1	1104.2	1139.0	1171.9	1229.2	1286.5	1357.7	1427.2	1663.3	1897.7
45°	1024.4	1043.5	1060.8	1099.0	1137.2	1192.8	1248.3	1347.3	1446.3	1616.4	1786.6
47.5°	986.2	1007.0	1026.1	1067.8	1109.4	1178.9	1246.6	1329.9	1411.5	1580.0	1748.4
50°	949.7	974.0	998.3	1048.7	1097.3	1213.6	1328.2	1340.4	1350.8	1550.4	1748.4
52.5°	915.0	942.8	970.5	1033.0	1093.8	1229.2	1364.7	1321.3	1276.1	1494.9	1713.6
55°	880.3	904.6	927.1	1003.5	1079.9	1178.9	1277.9	1220.6	1161.5	1390.7	1619.9
57.5°	833.4	859.4	883.7	965.3	1046.9	1116.4	1184.1	1132.0	1078.2	1272.6	1465.4
60°	784.8	814.3	843.8	948.0	1050.4	1038.3	1024.4	1013.9	1001.8	1140.7	1279.6
62.5°	741.4	772.6	803.9	939.3	1074.7	991.4	908.0	916.7	923.7	1026.1	1128.5
65°	698.0	729.2	758.7	826.4	894.1	861.2	828.2	842.1	854.2	954.9	1055.6
67.5°	649.3	677.1	703.2	725.7	748.3	751.8	755.3	769.1	783.0	902.8	1020.9
70°	595.5	618.1	640.7	656.3	670.2	677.1	682.3	699.7	717.1	847.3	977.5
72.5°	534.8	553.9	571.2	585.1	599.0	604.2	607.7	625.0	642.4	781.3	920.2
75°	468.8	484.4	498.3	510.4	522.6	529.5	536.5	548.6	560.8	711.8	861.2
77.5°	395.9	411.5	425.4	435.8	444.5	451.4	456.6	472.2	487.9	614.6	739.6
80°	309.0	328.1	345.5	354.2	361.1	362.9	362.9	376.8	390.6	480.9	569.5
82.5°	218.8	239.6	258.7	265.6	272.6	272.6	272.6	288.2	303.8	364.6	423.6
85°	128.5	151.1	171.9	178.8	185.8	189.2	191.0	197.9	203.1	246.5	288.2
87.5°	39.9	59.0	76.4	79.9	83.3	90.3	97.2	99.0	99.0	128.5	158.0
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: P320502
 CATALOG NUMBER: GLEON-SA8D-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: P320502

CATALOG NUMBER: GLEON-SA8D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9	13229.9
2.5°	13016.4	13193.5	13400.1	13605.0	13780.3	13955.7	14101.5
5°	11568.4	11924.3	12360.1	12794.1	13181.3	13568.5	14018.2
7.5°	9748.8	10208.9	10773.2	11337.5	11884.4	12429.5	13120.6
10°	8431.0	8898.1	9495.3	10090.9	10705.5	11318.4	12099.7
12.5°	7594.2	7972.7	8550.8	9129.0	9851.3	10571.8	11323.6
15°	7042.1	7455.3	8017.8	8580.4	9370.3	10160.3	11024.9
17.5°	6453.5	6993.5	7714.0	8434.5	9370.3	10304.4	11323.6
20°	5837.1	6509.1	7443.1	8377.2	9637.7	10896.5	12196.9
22.5°	5222.5	6000.3	7198.3	8394.6	10042.2	11688.2	13443.5
25°	4668.7	5566.3	7049.0	8530.0	10630.8	12729.9	14907.1
27.5°	4248.5	5227.7	6988.3	8747.0	11377.4	14007.8	16499.2
30°	3875.2	4871.8	6915.3	8958.9	12096.2	15231.8	17744.1
32.5°	3552.3	4524.6	6774.7	9023.1	12598.0	16172.8	18798.0
35°	3298.8	4253.7	6538.6	8823.4	12912.2	17001.0	19895.3
37.5°	3080.0	3981.1	6269.5	8557.8	13191.7	17825.7	21129.7
40°	2871.7	3689.5	6038.5	8385.9	13577.2	18768.5	22433.6
42.5°	2673.8	3449.9	5852.8	8255.7	13934.8	19612.2	23574.3
45°	2526.2	3265.8	5687.8	8108.1	14165.8	20223.4	24433.7
47.5°	2453.3	3156.4	5599.3	8040.4	14396.7	20751.2	25147.3
50°	2442.9	3137.3	5700.0	8262.6	14896.7	21529.0	25963.3
52.5°	2441.1	3168.6	5989.9	8811.3	15825.6	22838.1	26847.0
55°	2404.7	3187.7	6335.4	9481.5	17072.2	24661.2	28435.7
57.5°	2293.5	3121.7	6691.4	10259.3	18390.0	26518.9	30225.7
60°	2121.7	2962.0	6984.8	11005.8	19275.4	27543.3	30915.0
62.5°	1906.4	2682.4	7082.0	11479.8	19251.1	27022.4	30220.5
65°	1722.3	2389.0	6762.5	11134.3	18277.1	25418.1	28847.2
67.5°	1559.1	2095.6	5963.9	9830.4	16525.3	23218.4	27100.5
70°	1441.1	1902.9	4934.3	7965.7	14332.4	20697.4	25077.8
72.5°	1366.4	1810.9	4022.8	6233.0	11630.9	17027.0	21450.9
75°	1264.0	1666.8	3156.4	4644.4	8901.6	13158.7	16202.3
77.5°	1073.0	1404.6	2378.6	3352.6	6531.6	9708.9	11268.0
80°	828.2	1085.1	1635.5	2185.9	4495.1	6804.2	7682.7
82.5°	590.3	757.0	991.4	1225.8	2986.3	4745.1	4818.0
85°	364.6	441.0	567.7	694.5	1975.8	3257.1	2713.7
87.5°	196.2	234.4	300.4	364.6	632.0	899.4	517.4
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: P320502
 CATALOG NUMBER: GLEON-SA8D-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
 R_f: 81.5
 R_g: 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 $\text{W}^{\wedge}/\text{nm}$	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			

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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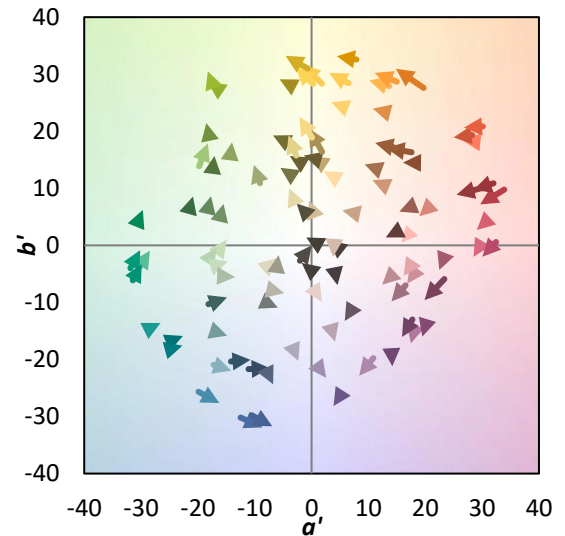
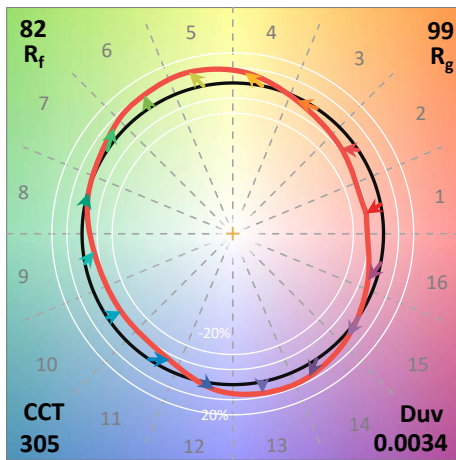
TM-30-18

Summary

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

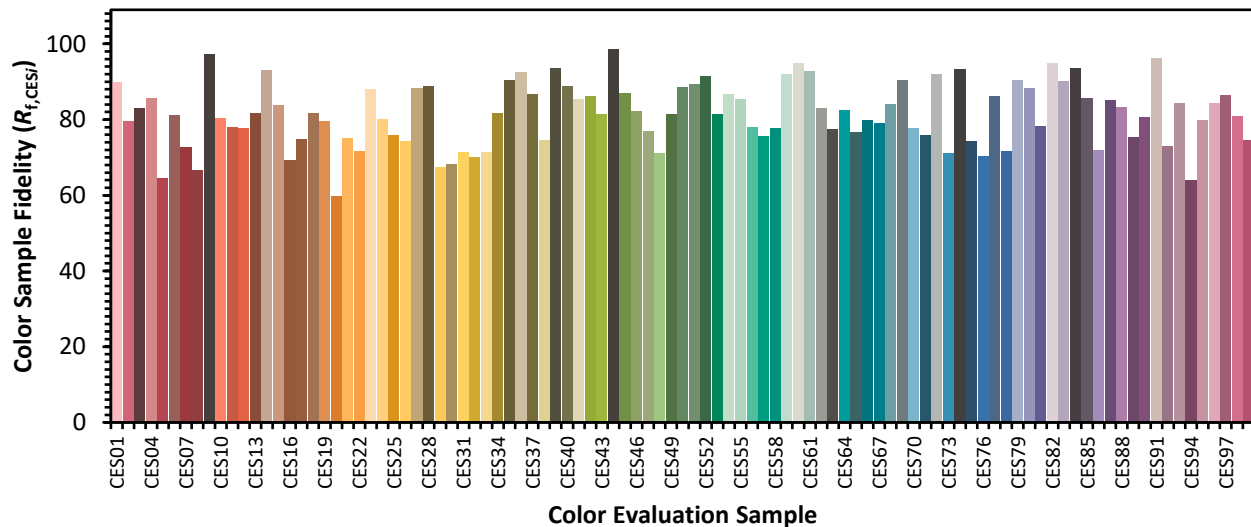


Color Vector Graphics

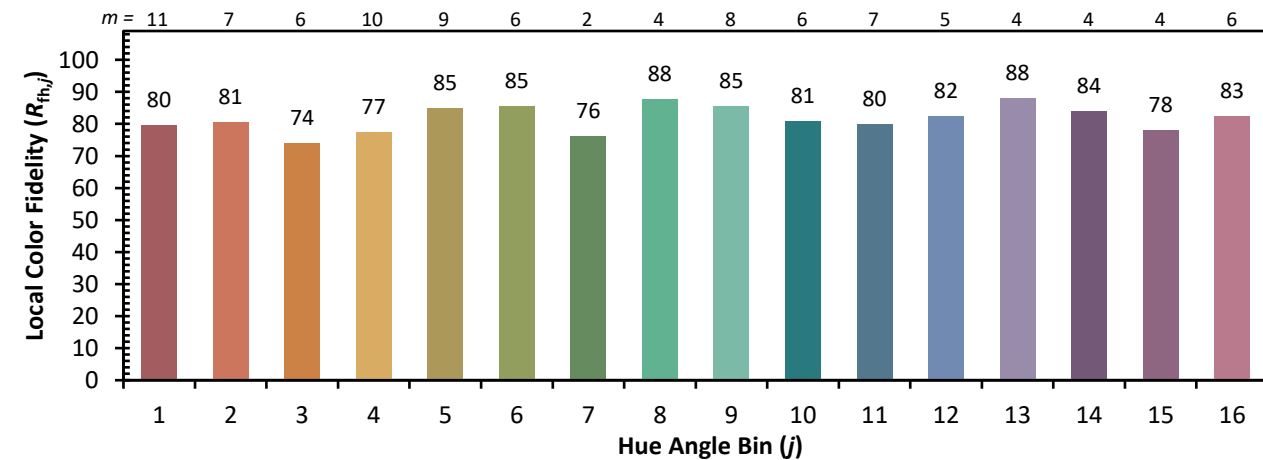


Individual Sample Fidelity Index ($R_{f,i}$)

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)