

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P320489

Luminaire Tested: **GLEON-SA5C-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320489
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-SA5C-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA 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: 24687 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 279
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

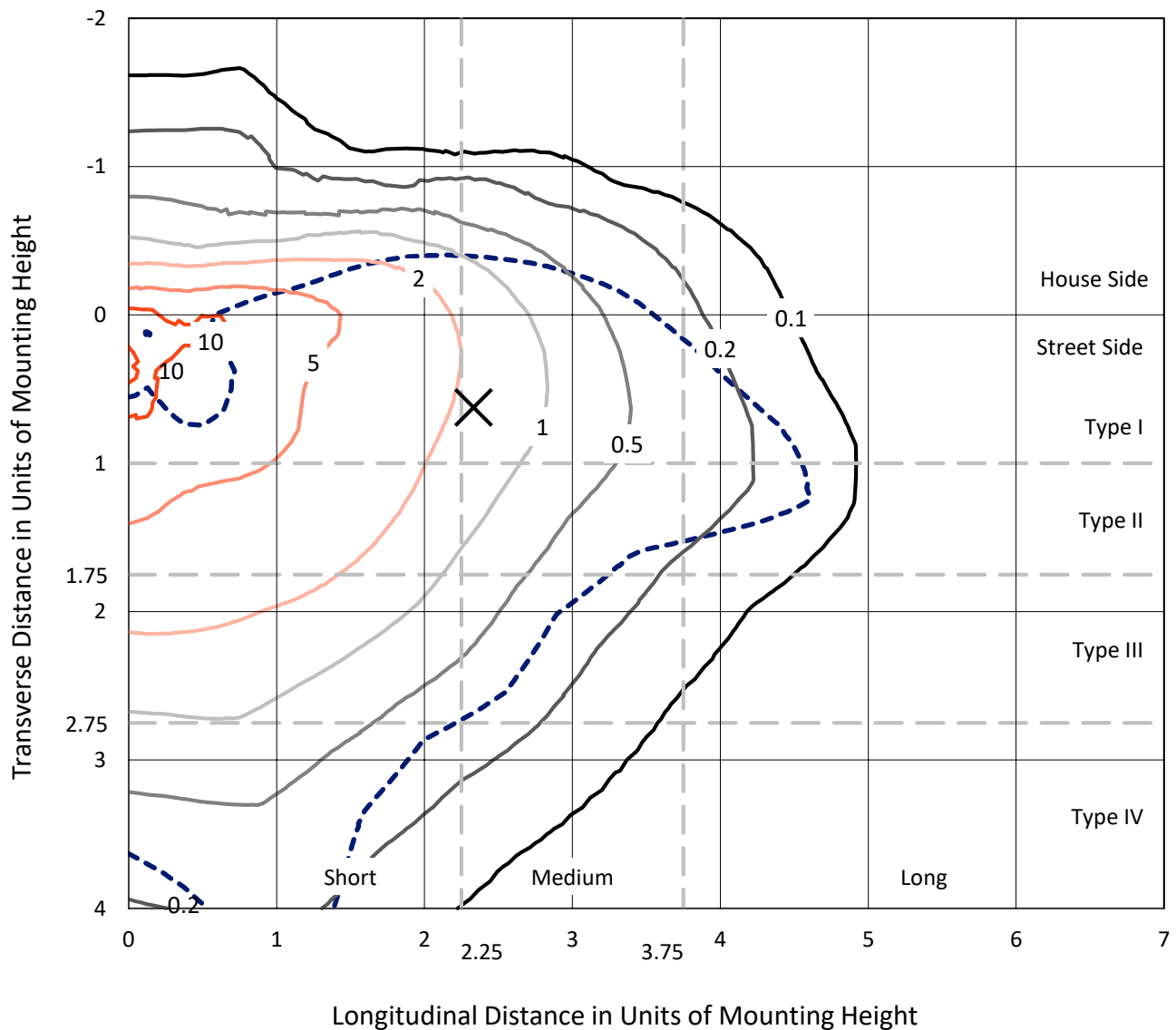


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Iso-Footcandle Lines of Horizontal Illumination

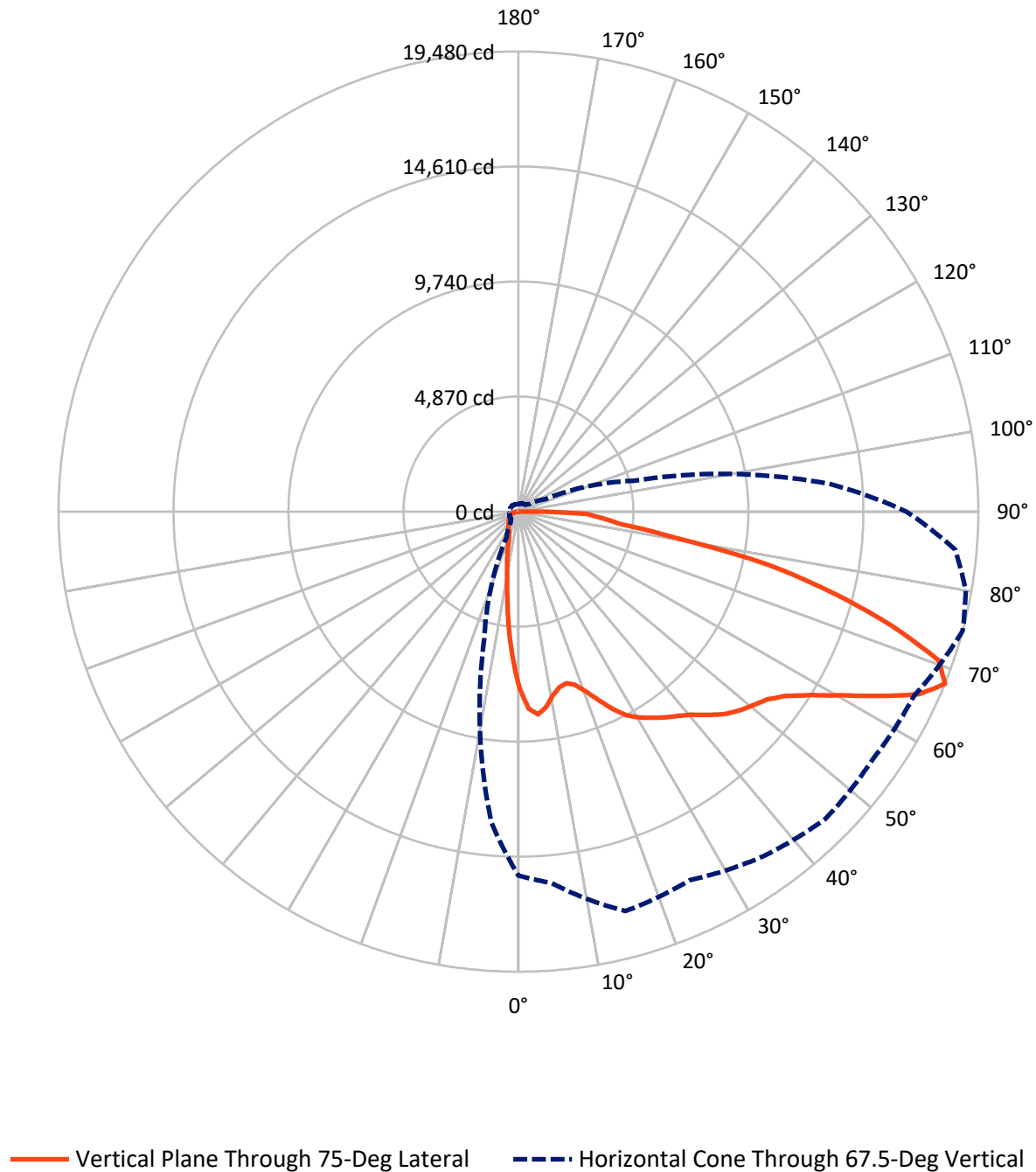
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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	4348.0	0.0	4348.0
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	20339.0	0.0	20339.0
	% Fixture	82.4	0.0	82.4
Total	Lumens	24687.0	0.0	24687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.5	2.4
10°-20°	1205.8	4.9
20°-30°	1715.0	6.9
30°-40°	2471.2	10.0
40°-50°	3482.7	14.1
50°-60°	4841.5	19.6
60°-70°	5854.9	23.7
70°-80°	3598.9	14.6
80°-90°	936.5	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°	24687.0	100.0
0°-180°	24687.0	100.0

Coefficient of Utilization



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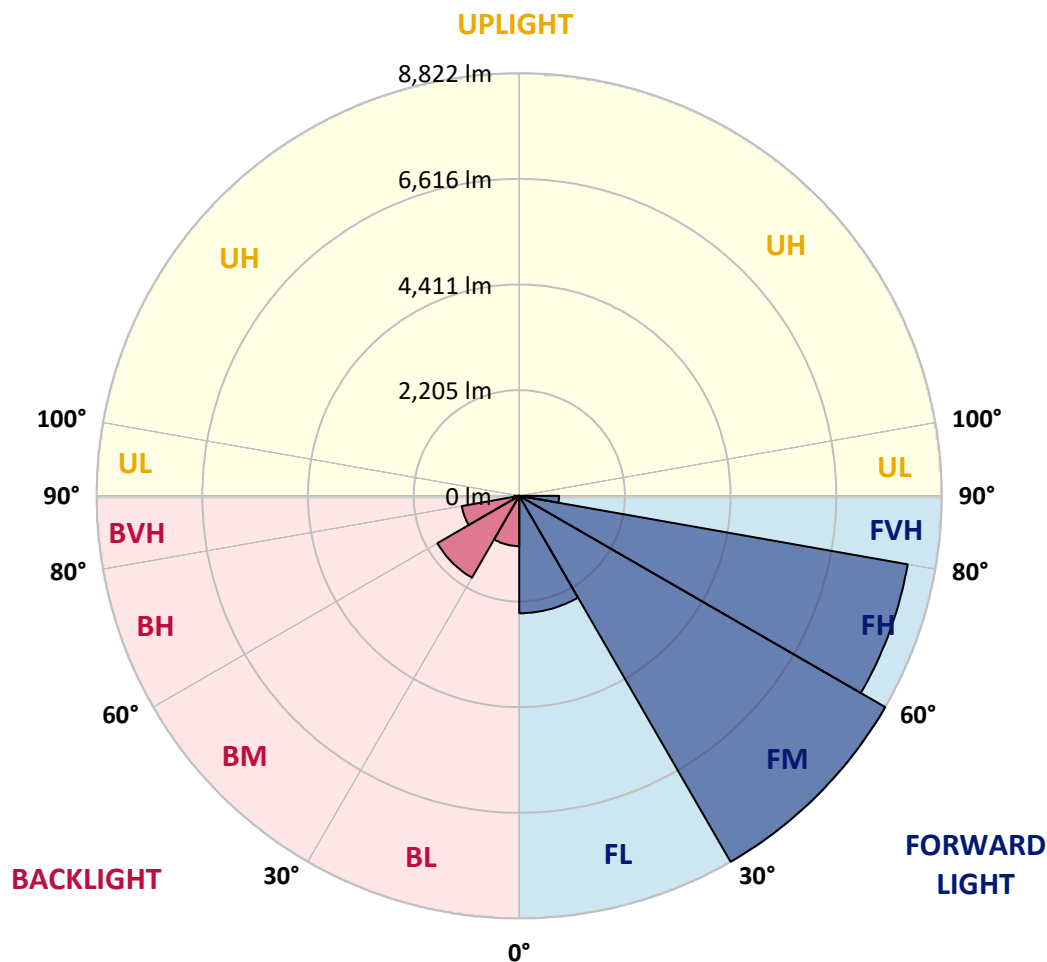
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2451.2	9.9			
FM	(30°-60°)	8821.8	35.7			
FH	(60°-80°)	8234.8	33.4			G4/12000
FVH	(80°-90°)	831.3	3.4			G5
BL	(0°-30°)	1050.1	4.3	B3/2500		
BM	(30°-60°)	1973.7	8.0	B2/2500		
BH	(60°-80°)	1219.0	4.9	B3/2500		G3/2500
BVH	(80°-90°)	105.2	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°	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0
2.5°	8016.5	8122.1	8195.1	8267.2	8323.4	8378.7	8459.7	8540.6	8556.4	8571.2	8539.6
5°	7969.1	8226.7	8445.8	8664.0	8866.3	9068.6	9190.0	9311.4	9336.1	9360.8	9284.8
7.5°	7458.8	7838.8	8218.8	8598.8	8947.2	9295.7	9507.9	9719.1	9767.4	9814.8	9690.5
10°	6878.5	7320.6	7787.5	8254.4	8713.3	9172.3	9479.2	9786.2	9847.4	9908.6	9753.6
12.5°	6437.3	6919.9	7418.4	7916.8	8401.4	8885.1	9202.9	9520.7	9596.7	9672.7	9560.2
15°	6267.5	6796.5	7265.4	7734.2	8156.6	8578.1	8838.7	9098.3	9129.8	9160.4	9142.7
17.5°	6437.3	7020.6	7445.0	7868.4	8098.4	8327.4	8432.0	8535.7	8570.2	8603.8	8649.2
20°	6933.7	7563.5	7862.5	8160.6	8150.7	8139.9	8089.5	8038.2	8029.3	8020.4	8148.7
22.5°	7642.4	8373.8	8493.2	8611.7	8334.3	8057.0	7888.2	7718.4	7684.9	7650.3	7786.5
25°	8474.5	9253.2	9231.5	9208.8	8680.7	8151.7	7829.9	7508.2	7470.7	7433.2	7549.6
27.5°	9379.5	10123.8	9981.6	9839.5	9121.9	8404.4	7937.5	7470.7	7433.2	7395.7	7498.3
30°	10087.2	10762.3	10534.3	10306.4	9494.0	8681.7	8127.0	7572.3	7511.1	7449.0	7575.3
32.5°	10686.3	11260.8	10954.8	10648.8	9796.1	8943.3	8343.2	7743.1	7647.3	7551.6	7720.4
35°	11310.1	11758.2	11327.9	10896.6	10065.5	9233.5	8598.8	7963.2	7845.7	7728.3	7960.2
37.5°	12011.9	12384.0	11766.1	11147.3	10368.5	9589.8	8981.8	8372.8	8252.4	8132.0	8428.1
40°	12753.1	13063.1	12238.9	11414.8	10700.2	9985.6	9511.8	9037.1	8922.6	8807.1	9166.4
42.5°	13401.6	13627.6	12679.1	11730.6	11099.9	10468.2	10134.6	9800.0	9799.0	9797.1	10161.3
45°	13890.2	14086.6	13046.3	12005.0	11489.8	10973.6	10799.9	10626.1	10765.3	10904.5	11234.1
47.5°	14295.8	14429.1	13354.2	12278.4	11935.9	11593.4	11619.1	11644.7	11928.0	12211.3	12423.5
50°	14759.7	14652.2	13633.6	12614.0	12508.4	12402.8	12633.7	12863.7	13189.4	13514.1	13658.2
52.5°	15262.1	14976.9	14012.6	13047.3	13165.7	13284.2	13754.0	14223.8	14552.5	14881.1	14935.4
55°	16165.2	15728.0	14709.4	13689.8	13917.8	14144.8	14834.7	15523.7	15780.3	16036.9	16056.7
57.5°	17182.8	16794.9	15685.6	14576.2	14820.9	15065.7	15862.2	16657.8	16935.1	17211.5	17173.0
60°	17574.7	17593.4	16612.4	15630.3	15877.0	16123.8	16899.6	17675.4	17994.2	18312.0	18227.1
62.5°	17179.9	17642.8	17118.7	16593.6	16817.7	17040.7	17800.7	18560.7	18887.4	19214.1	19066.1
65°	16399.2	16858.1	17093.0	17327.9	17402.0	17476.0	18185.6	18894.3	19145.0	19394.7	19319.7
67.5°	15406.2	15777.3	16643.9	17509.5	17360.5	17211.5	17544.1	17876.7	18134.3	18391.9	18349.5
70°	14256.4	14698.5	15854.3	17010.1	16277.8	15544.4	15407.2	15270.0	15548.4	15825.7	15654.0
72.5°	12194.5	12861.7	14094.5	15326.3	13977.0	12627.8	12159.0	11690.1	12042.5	12394.9	12121.5
75°	9210.8	10096.1	11458.2	12819.3	11209.5	9599.7	8973.9	8348.1	8651.1	8954.1	8766.6
77.5°	6405.7	7516.1	8857.4	10198.8	8562.3	6924.9	6460.0	5994.1	6084.9	6174.7	6143.1
80°	4367.5	5097.9	6033.6	6968.3	5878.6	4789.0	4825.5	4861.0	4818.6	4775.2	4838.3
82.5°	2739.0	3253.2	3975.7	4697.2	4118.8	3540.4	3872.0	4203.7	4040.8	3877.0	3938.2
85°	1542.7	1856.6	2563.3	3269.0	3046.9	2823.8	3018.3	3211.7	2959.1	2706.4	2817.9
87.5°	294.1	489.6	1418.3	2346.1	2130.0	1913.8	1663.1	1412.4	1077.8	743.2	1085.7
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°	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0
2.5°	8508.0	8491.2	8474.5	8414.3	8353.1	8262.3	8187.2	8057.0	7985.9	7878.3	7770.7
5°	9207.8	9101.2	8994.6	8811.0	8626.5	8421.2	8185.3	7923.7	7726.3	7469.7	7213.1
7.5°	9566.1	9317.4	9067.7	8715.3	8361.9	8044.1	7671.0	7323.6	7027.5	6693.9	6360.3
10°	9598.7	9225.6	8851.5	8393.5	7934.6	7548.6	7119.3	6733.4	6378.1	5995.1	5611.1
12.5°	9446.7	9049.9	8652.1	8147.8	7642.4	7204.2	6742.3	6309.9	5916.1	5494.7	5072.2
15°	9124.9	8808.1	8490.3	8017.5	7544.7	7102.5	6654.4	6142.2	5697.0	5265.7	4833.4
17.5°	8693.6	8543.6	8392.5	8051.0	7708.5	7325.6	6891.3	6290.2	5769.1	5300.2	4831.4
20°	8276.1	8331.3	8385.6	8249.4	8113.2	7806.3	7427.2	6752.1	6086.9	5474.0	4860.0
22.5°	7921.7	8187.2	8451.8	8557.4	8662.0	8477.4	8181.3	7400.6	6520.2	5719.7	4919.3
25°	7665.1	8105.3	8545.5	8896.9	9247.3	9165.4	8937.4	8188.2	7094.6	6074.1	5052.5
27.5°	7601.0	8140.9	8680.7	9225.6	9769.4	9845.4	9782.2	9018.3	7779.6	6514.3	5247.9
30°	7701.6	8248.4	8794.3	9457.5	10119.8	10422.8	10507.7	9710.2	8562.3	7027.5	5491.7
32.5°	7889.2	8425.1	8961.1	9683.5	10405.1	10863.0	11133.5	10342.9	9108.1	7414.4	5719.7
35°	8192.2	8693.6	9195.0	9947.1	10699.2	11291.4	11784.9	10996.3	9592.7	7684.9	5776.0
37.5°	8723.2	9154.5	9585.8	10280.7	10974.6	11742.4	12483.7	11715.8	10116.8	7945.4	5773.0
40°	9525.6	9830.6	10134.6	10721.9	11308.2	12274.4	13275.3	12518.2	10696.2	8227.7	5759.2
42.5°	10525.5	10682.4	10838.3	11303.2	11768.1	12830.1	13993.8	13302.9	11248.9	8490.3	5731.6
45°	11562.8	11604.3	11645.7	11938.9	12231.0	13270.3	14483.4	13892.2	11731.6	8718.3	5703.9
47.5°	12634.7	12492.6	12350.4	12466.9	12583.4	13607.9	14832.8	14339.3	12216.2	8970.9	5724.7
50°	13802.3	13406.5	13010.8	12949.6	12888.4	13945.5	15244.4	14907.8	12798.5	9339.1	5879.6
52.5°	14988.7	14336.3	13683.9	13442.1	13199.3	14348.2	15790.2	15615.5	13629.6	9909.6	6188.5
55°	16076.4	15246.3	14416.3	14090.5	13764.8	14964.0	16456.4	16654.8	14694.6	10639.0	6582.4
57.5°	17133.5	16192.9	15252.3	14950.2	14648.2	15869.1	17300.3	17587.5	15770.4	11338.8	6906.1
60°	18142.2	17211.5	16279.7	16037.9	15795.1	16994.3	18212.3	18003.0	16325.1	11666.4	7006.8
62.5°	18918.0	18177.7	17437.5	17310.2	17181.9	18132.3	18913.1	17841.2	15972.8	11343.7	6714.6
65°	19244.7	18823.3	18400.8	18520.2	18638.7	18993.0	19087.8	17367.4	14865.3	10439.6	6013.8
67.5°	18306.1	18391.9	18477.8	18979.2	19479.6	19235.8	18568.6	16433.7	13289.1	9158.5	5027.8
70°	15481.2	15996.5	16510.7	17697.1	18882.5	18341.6	17177.9	14757.8	11392.1	7682.9	3972.7
72.5°	11847.1	12426.4	13004.8	14765.7	16525.5	16027.1	14601.8	12121.5	9133.8	6135.2	3135.7
75°	8578.1	9232.5	9885.9	11828.3	13770.8	13078.9	10922.2	8678.8	6937.7	4683.4	2428.0
77.5°	6110.6	6548.8	6987.0	8905.8	10823.5	9696.4	7270.3	5840.1	4801.8	3255.2	1707.5
80°	4901.5	4767.3	4633.0	5702.0	6770.9	6583.4	4808.7	3750.6	3323.3	2181.3	1039.3
82.5°	3998.4	3670.7	3343.0	3846.4	4349.7	4322.1	3337.1	2751.8	2473.4	1516.0	558.6
85°	2928.5	2797.2	2665.9	3111.1	3556.2	3176.2	2260.3	1749.0	1928.6	1116.3	304.0
87.5°	1428.2	1631.5	1833.9	2359.0	2883.1	2164.5	686.0	339.5	469.8	308.9	147.1
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: P320489
 CATALOG NUMBER: GLEON-SA5C-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: P320489

CATALOG NUMBER: GLEON-SA5C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0
2.5°	7690.8	7609.8	7518.0	7426.3	7321.6	7216.0	7153.8	7090.7	7022.6	6954.5	6877.5
5°	7043.3	6873.5	6681.1	6488.6	6298.1	6107.6	6005.0	5902.3	5793.7	5684.2	5589.4
7.5°	6113.5	5865.8	5599.3	5331.8	5094.9	4857.1	4710.0	4562.0	4427.7	4292.5	4179.0
10°	5295.3	4979.5	4712.0	4443.5	4264.9	4086.2	3951.0	3815.8	3685.5	3554.2	3428.9
12.5°	4756.4	4440.6	4270.8	4101.0	3953.0	3804.9	3649.0	3492.0	3313.4	3133.8	3002.5
15°	4546.2	4258.9	4070.4	3880.9	3682.5	3483.2	3291.7	3100.2	2889.0	2677.8	2528.7
17.5°	4455.4	4079.3	3815.8	3551.3	3289.7	3028.1	2806.1	2584.0	2353.0	2122.1	1971.1
20°	4359.6	3859.2	3505.9	3151.5	2815.9	2480.4	2228.7	1977.0	1770.7	1564.4	1448.9
22.5°	4272.8	3625.3	3182.1	2738.0	2341.2	1944.4	1697.7	1449.9	1323.6	1197.2	1150.9
25°	4237.2	3421.0	2876.1	2331.3	1912.8	1493.3	1317.7	1142.0	1093.6	1044.3	1020.6
27.5°	4243.2	3238.4	2618.5	1997.7	1620.7	1243.6	1123.2	1002.8	973.2	942.6	927.8
30°	4265.9	3040.0	2375.7	1711.5	1400.6	1089.7	1011.7	932.7	901.1	869.6	850.8
32.5°	4291.5	2862.3	2188.2	1513.1	1259.4	1004.8	940.6	875.5	844.9	814.3	795.5
35°	4247.1	2717.2	2059.9	1402.5	1168.6	933.7	879.4	824.2	790.6	757.0	739.3
37.5°	4172.1	2571.2	1960.2	1348.3	1109.4	869.6	830.1	789.6	755.1	719.5	702.8
40°	4104.0	2447.8	1886.2	1323.6	1076.8	829.1	795.5	762.0	726.4	689.9	670.2
42.5°	4048.7	2364.9	1813.1	1261.4	1047.2	832.0	784.7	736.3	701.8	667.2	645.5
45°	4007.3	2310.6	1755.9	1201.2	1019.6	838.0	777.8	717.6	683.0	647.5	621.8
47.5°	4003.3	2282.0	1715.4	1148.9	967.3	784.7	760.0	735.3	685.0	633.7	604.0
50°	4057.6	2235.6	1668.0	1099.5	916.9	734.3	767.9	800.5	714.6	627.7	590.2
52.5°	4171.1	2153.7	1593.0	1032.4	855.7	678.1	730.4	781.7	707.7	632.7	584.3
55°	4308.3	2033.2	1479.5	924.8	774.8	623.8	670.2	715.6	669.2	621.8	563.6
57.5°	4394.2	1881.2	1336.4	791.6	684.0	576.4	603.1	628.7	610.0	591.2	532.0
60°	4342.8	1678.9	1175.5	671.2	604.0	536.9	532.0	526.1	553.7	581.3	513.2
62.5°	4092.1	1469.7	1033.4	597.1	546.8	495.5	484.6	472.8	518.2	562.6	490.5
65°	3668.7	1323.6	943.6	563.6	507.3	451.1	439.2	427.4	441.2	455.0	421.5
67.5°	3130.8	1233.8	892.3	550.8	482.6	413.6	399.7	385.9	383.0	380.0	368.2
70°	2576.1	1178.5	858.7	538.9	456.0	372.1	359.3	346.4	342.5	337.6	328.7
72.5°	2153.7	1171.6	854.7	537.9	434.3	330.6	318.8	307.0	302.0	296.1	289.2
75°	1763.8	1099.5	811.3	523.1	404.7	285.2	274.4	263.5	259.6	254.6	248.7
77.5°	1308.8	910.0	682.0	454.0	346.4	238.9	228.0	216.2	215.2	213.2	208.3
80°	848.8	658.3	487.6	316.8	252.7	187.5	178.6	168.8	169.8	170.8	166.8
82.5°	471.8	383.9	298.1	212.2	172.7	133.2	129.3	124.4	127.3	129.3	124.4
85°	248.7	193.5	159.9	126.3	99.7	73.0	73.0	72.1	76.0	79.9	76.0
87.5°	107.6	68.1	58.2	47.4	26.6	4.9	5.9	5.9	7.9	9.9	8.9
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: P320489
 CATALOG NUMBER: GLEON-SA5C-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: P320489

CATALOG NUMBER: GLEON-SA5C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0
2.5°	6799.5	6727.5	6654.4	6574.5	6589.3	6528.1	6466.9	6428.4	6389.9	6378.1	6366.2
5°	5494.7	5412.8	5329.8	5255.8	5320.0	5276.6	5233.1	5227.2	5220.3	5220.3	5219.3
7.5°	4065.5	3977.6	3888.8	3827.6	3890.8	3882.9	3875.0	3917.4	3959.9	3994.4	4028.0
10°	3303.5	3196.9	3089.3	2998.5	2982.7	2937.3	2890.9	2900.8	2909.7	2947.2	2984.7
12.5°	2871.2	2743.9	2616.6	2510.0	2461.6	2386.6	2310.6	2263.2	2215.8	2220.8	2224.7
15°	2378.7	2255.3	2131.0	2039.2	2008.6	1950.3	1892.1	1832.9	1772.7	1748.0	1722.3
17.5°	1819.1	1720.4	1620.7	1559.5	1559.5	1542.7	1525.9	1496.3	1465.7	1441.0	1415.4
20°	1333.4	1281.1	1227.8	1202.2	1210.1	1211.1	1211.1	1225.9	1240.7	1232.8	1224.9
22.5°	1103.5	1084.7	1066.0	1055.1	1059.1	1060.0	1061.0	1074.9	1087.7	1097.6	1106.4
25°	995.9	984.0	972.2	968.3	977.1	978.1	978.1	987.0	995.9	1005.8	1015.6
27.5°	912.0	907.1	902.1	895.2	904.1	904.1	903.1	913.0	921.9	930.7	938.6
30°	832.0	834.0	835.0	833.0	839.0	842.9	845.9	852.8	858.7	865.6	872.5
32.5°	775.8	772.8	769.9	767.9	780.7	787.6	794.5	801.5	807.4	810.3	813.3
35°	721.5	714.6	707.7	702.8	714.6	723.5	732.4	745.2	757.0	759.0	761.0
37.5°	685.0	676.1	667.2	661.3	666.2	670.2	674.1	687.9	701.8	709.7	716.6
40°	650.4	641.6	632.7	627.7	630.7	631.7	632.7	639.6	645.5	660.3	674.1
42.5°	622.8	611.9	601.1	595.2	597.1	599.1	600.1	599.1	598.1	611.9	625.8
45°	595.2	583.3	571.5	564.6	565.6	565.6	565.6	563.6	560.6	567.5	574.4
47.5°	573.5	559.6	545.8	538.9	536.9	535.0	533.0	532.0	530.0	535.0	538.9
50°	551.7	536.9	521.1	513.2	508.3	506.3	504.4	503.4	501.4	506.3	510.3
52.5°	535.0	517.2	499.4	486.6	481.7	478.7	475.7	476.7	476.7	478.7	479.7
55°	505.3	489.6	472.8	463.9	455.0	453.0	451.1	454.0	456.0	456.0	456.0
57.5°	472.8	458.0	442.2	436.3	428.4	428.4	427.4	431.3	434.3	436.3	438.2
60°	444.2	427.4	410.6	405.7	402.7	401.7	400.7	405.7	409.6	413.6	417.5
62.5°	417.5	399.7	382.0	376.1	375.1	376.1	376.1	381.0	384.9	388.9	392.8
65°	387.9	370.1	351.4	345.5	347.4	350.4	353.3	357.3	360.3	364.2	368.2
67.5°	355.3	340.5	324.7	318.8	319.8	323.7	327.7	330.6	332.6	336.6	340.5
70°	319.8	307.0	294.1	290.2	289.2	294.1	298.1	300.1	302.0	307.0	310.9
72.5°	281.3	270.4	259.6	256.6	257.6	260.6	263.5	266.5	268.5	273.4	277.3
75°	241.8	231.9	222.1	220.1	222.1	225.0	228.0	230.0	231.9	237.9	242.8
77.5°	203.3	192.5	180.6	179.6	182.6	185.6	187.5	190.5	193.5	201.3	209.2
80°	162.9	151.0	138.2	137.2	140.2	143.1	146.1	149.0	152.0	161.9	170.8
82.5°	119.4	105.6	91.8	89.8	99.7	102.6	105.6	110.5	114.5	123.4	132.3
85°	72.1	58.2	44.4	43.4	52.3	57.2	62.2	68.1	73.0	80.9	88.8
87.5°	7.9	3.9	0.0	0.0	1.0	4.9	8.9	13.8	18.8	26.6	33.6
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: P320489
 CATALOG NUMBER: GLEON-SA5C-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: P320489

CATALOG NUMBER: GLEON-SA5C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0
2.5°	6322.8	6278.4	6323.8	6368.2	6386.9	6405.7	6357.3	6308.0	6385.0	6461.0	6480.7
5°	5179.8	5139.4	5170.0	5199.6	5133.4	5067.3	5060.4	5052.5	5109.7	5167.0	5175.9
7.5°	4015.2	4002.3	4030.9	4059.6	3975.7	3890.8	3849.3	3807.9	3821.7	3835.5	3833.5
10°	2993.6	3001.5	3037.0	3071.6	3006.4	2941.3	2912.7	2884.0	2915.6	2946.2	2974.8
12.5°	2242.5	2259.3	2296.8	2333.3	2306.6	2279.0	2282.0	2284.9	2321.4	2357.0	2388.6
15°	1742.1	1761.8	1788.5	1814.1	1815.1	1815.1	1840.8	1865.4	1862.5	1859.5	1881.2
17.5°	1442.0	1467.7	1470.6	1473.6	1474.6	1475.6	1473.6	1471.6	1456.8	1442.0	1458.8
20°	1234.7	1243.6	1251.5	1258.4	1249.6	1239.7	1215.0	1190.3	1180.5	1170.6	1186.4
22.5°	1123.2	1139.0	1131.1	1122.2	1104.5	1085.7	1067.0	1047.2	1046.2	1044.3	1053.1
25°	1029.5	1042.3	1028.5	1014.6	1001.8	989.0	976.2	963.3	962.3	961.3	965.3
27.5°	951.5	963.3	950.5	937.7	926.8	915.9	906.1	896.2	894.2	892.3	893.2
30°	884.4	895.2	884.4	872.5	864.6	855.7	848.8	841.9	840.9	839.9	839.9
32.5°	824.2	835.0	827.1	819.2	812.3	805.4	800.5	795.5	790.6	785.7	774.8
35°	771.8	782.7	777.8	771.8	763.9	756.0	747.2	737.3	724.5	710.6	704.7
37.5°	727.4	738.3	733.3	728.4	717.6	706.7	690.9	674.1	670.2	665.2	664.3
40°	691.9	708.7	698.8	687.9	671.2	654.4	646.5	638.6	636.6	634.6	632.7
42.5°	652.4	678.1	660.3	642.5	626.8	611.0	609.0	607.0	606.0	605.0	605.0
45°	603.1	630.7	612.9	594.2	585.3	576.4	576.4	576.4	577.4	577.4	579.4
47.5°	556.7	573.5	564.6	555.7	550.8	545.8	546.8	547.8	550.8	552.7	557.7
50°	517.2	523.1	525.1	526.1	523.1	520.2	522.1	523.1	526.1	528.0	532.0
52.5°	488.6	497.5	497.5	496.5	496.5	496.5	498.4	500.4	503.4	506.3	510.3
55°	469.8	482.6	478.7	474.8	475.7	475.7	477.7	479.7	482.6	484.6	490.5
57.5°	452.1	465.9	461.9	458.0	458.0	458.0	459.0	459.9	462.9	464.9	468.8
60°	431.3	445.1	441.2	436.3	437.2	438.2	439.2	439.2	441.2	442.2	442.2
62.5°	406.6	420.5	416.5	411.6	414.5	416.5	416.5	416.5	418.5	419.5	416.5
65°	381.0	393.8	389.9	385.9	389.9	392.8	394.8	395.8	394.8	393.8	390.9
67.5°	353.3	366.2	362.2	357.3	362.2	366.2	370.1	373.1	370.1	367.2	363.2
70°	323.7	336.6	331.6	326.7	331.6	336.6	340.5	344.5	340.5	336.6	335.6
72.5°	292.2	307.0	301.0	295.1	301.0	307.0	308.9	310.9	307.9	305.0	303.0
75°	257.6	272.4	267.5	261.6	266.5	271.4	272.4	273.4	273.4	272.4	266.5
77.5°	221.1	232.9	230.0	227.0	230.0	232.9	232.9	232.9	233.9	233.9	226.0
80°	177.7	184.6	185.6	186.5	187.5	188.5	187.5	186.5	184.6	182.6	177.7
82.5°	132.3	132.3	140.2	147.1	147.1	146.1	145.1	143.1	139.2	134.2	123.4
85°	83.9	79.0	91.8	103.6	103.6	102.6	100.7	97.7	89.8	80.9	72.1
87.5°	28.6	23.7	36.5	49.4	50.3	50.3	48.4	46.4	38.5	29.6	22.7
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: P320489
 CATALOG NUMBER: GLEON-SA5C-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: P320489

CATALOG NUMBER: GLEON-SA5C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0
2.5°	6510.3	6523.1	6535.0	6631.7	6727.5	6840.0	6952.5	7038.4	7123.2	7211.1	7298.9
5°	5206.5	5222.3	5238.1	5355.5	5472.0	5628.9	5785.8	5921.1	6056.3	6215.2	6374.1
7.5°	3859.2	3893.8	3927.3	4052.7	4177.0	4345.8	4513.6	4690.3	4866.0	5073.2	5280.5
10°	3031.1	3096.2	3160.4	3288.7	3417.0	3583.8	3749.6	3934.2	4118.8	4323.1	4526.4
12.5°	2453.7	2540.6	2626.4	2780.4	2934.4	3133.8	3332.1	3537.4	3741.8	3921.4	4101.0
15°	1938.5	2033.2	2127.0	2289.9	2452.7	2671.8	2890.0	3114.0	3337.1	3552.2	3767.4
17.5°	1512.1	1590.1	1667.1	1805.2	1942.4	2154.6	2366.8	2601.8	2836.7	3099.2	3360.8
20°	1219.9	1252.5	1285.1	1384.8	1483.5	1656.2	1827.9	2067.8	2307.6	2621.5	2935.4
22.5°	1068.9	1085.7	1101.5	1149.9	1197.2	1308.8	1419.3	1631.5	1842.7	2185.2	2526.7
25°	978.1	991.0	1003.8	1035.4	1067.0	1120.3	1173.6	1322.6	1471.6	1808.2	2143.8
27.5°	896.2	915.9	934.7	949.5	963.3	999.8	1035.4	1133.1	1230.8	1544.7	1857.6
30°	837.0	843.9	850.8	873.5	895.2	932.7	970.2	1038.3	1106.4	1371.9	1636.5
32.5°	767.9	777.8	787.6	811.3	835.0	869.6	904.1	959.4	1013.7	1240.7	1466.7
35°	705.7	715.6	725.5	749.1	771.8	809.3	845.9	892.3	937.7	1135.1	1332.5
37.5°	667.2	677.1	687.0	707.7	727.4	764.9	801.5	838.0	873.5	1056.1	1238.7
40°	634.6	644.5	654.4	674.1	692.9	729.4	764.9	795.5	826.1	996.9	1167.6
42.5°	606.0	616.9	627.7	647.5	666.2	698.8	731.4	771.8	811.3	945.6	1078.8
45°	582.3	593.2	603.1	624.8	646.5	678.1	709.7	765.9	822.2	918.9	1015.6
47.5°	560.6	572.5	583.3	607.0	630.7	670.2	708.7	756.0	802.4	898.2	993.9
50°	539.9	553.7	567.5	596.2	623.8	689.9	755.1	762.0	767.9	881.4	993.9
52.5°	520.2	535.9	551.7	587.3	621.8	698.8	775.8	751.1	725.5	849.8	974.2
55°	500.4	514.2	527.1	570.5	613.9	670.2	726.4	693.9	660.3	790.6	920.9
57.5°	473.8	488.6	502.4	548.8	595.2	634.6	673.1	643.5	612.9	723.5	833.0
60°	446.1	462.9	479.7	538.9	597.1	590.2	582.3	576.4	569.5	648.5	727.4
62.5°	421.5	439.2	457.0	534.0	611.0	563.6	516.2	521.1	525.1	583.3	641.6
65°	396.8	414.5	431.3	469.8	508.3	489.6	470.8	478.7	485.6	542.9	600.1
67.5°	369.1	384.9	399.7	412.6	425.4	427.4	429.3	437.2	445.1	513.2	580.4
70°	338.5	351.4	364.2	373.1	381.0	384.9	387.9	397.8	407.6	481.7	555.7
72.5°	304.0	314.9	324.7	332.6	340.5	343.5	345.5	355.3	365.2	444.2	523.1
75°	266.5	275.4	283.3	290.2	297.1	301.0	305.0	311.9	318.8	404.7	489.6
77.5°	225.0	233.9	241.8	247.7	252.7	256.6	259.6	268.5	277.3	349.4	420.5
80°	175.7	186.5	196.4	201.3	205.3	206.3	206.3	214.2	222.1	273.4	323.7
82.5°	124.4	136.2	147.1	151.0	155.0	155.0	155.0	163.8	172.7	207.3	240.8
85°	73.0	85.9	97.7	101.7	105.6	107.6	108.6	112.5	115.5	140.2	163.8
87.5°	22.7	33.6	43.4	45.4	47.4	51.3	55.3	56.3	56.3	73.0	89.8
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



REPORT NUMBER: P320489

CATALOG NUMBER: GLEON-SA5C-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: P320489

CATALOG NUMBER: GLEON-SA5C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0	7521.0
2.5°	7399.6	7500.3	7617.7	7734.2	7833.9	7933.6	8016.5
5°	6576.4	6778.8	7026.5	7273.3	7493.4	7713.5	7969.1
7.5°	5542.1	5803.6	6124.4	6445.2	6756.1	7066.0	7458.8
10°	4792.9	5058.4	5398.0	5736.5	6085.9	6434.3	6878.5
12.5°	4317.2	4532.3	4861.0	5189.7	5600.3	6009.9	6437.3
15°	4003.3	4238.2	4558.0	4877.8	5326.9	5776.0	6267.5
17.5°	3668.7	3975.7	4385.3	4794.9	5326.9	5857.9	6437.3
20°	3318.3	3700.3	4231.3	4762.3	5478.9	6194.5	6933.7
22.5°	2968.9	3411.1	4092.1	4772.2	5708.9	6644.5	7642.4
25°	2654.1	3164.4	4007.3	4849.2	6043.5	7236.8	8474.5
27.5°	2415.2	2971.9	3972.7	4972.6	6467.9	7963.2	9379.5
30°	2203.0	2769.5	3931.3	5093.0	6876.5	8659.0	10087.2
32.5°	2019.4	2572.1	3851.3	5129.5	7161.7	9194.0	10686.3
35°	1875.3	2418.2	3717.1	5016.0	7340.4	9664.8	11310.1
37.5°	1751.0	2263.2	3564.1	4865.0	7499.3	10133.6	12011.9
40°	1632.5	2097.4	3432.8	4767.3	7718.4	10669.6	12753.1
42.5°	1520.0	1961.2	3327.2	4693.2	7921.7	11149.3	13401.6
45°	1436.1	1856.6	3233.4	4609.3	8053.0	11496.7	13890.2
47.5°	1394.6	1794.4	3183.1	4570.8	8184.3	11796.7	14295.8
50°	1388.7	1783.5	3240.4	4697.2	8468.5	12238.9	14759.7
52.5°	1387.7	1801.3	3405.2	5009.1	8996.6	12983.1	15262.1
55°	1367.0	1812.1	3601.6	5390.1	9705.3	14019.5	16165.2
57.5°	1303.8	1774.6	3803.9	5832.2	10454.4	15075.6	17182.8
60°	1206.1	1683.8	3970.7	6256.7	10957.8	15657.9	17574.7
62.5°	1083.7	1524.9	4026.0	6526.1	10944.0	15361.8	17179.9
65°	979.1	1358.1	3844.4	6329.7	10390.2	14449.8	16399.2
67.5°	886.3	1191.3	3390.4	5588.4	9394.4	13199.3	15406.2
70°	819.2	1081.8	2805.1	4528.4	8147.8	11766.1	14256.4
72.5°	776.8	1029.5	2286.9	3543.4	6612.0	9679.6	12194.5
75°	718.5	947.5	1794.4	2640.2	5060.4	7480.5	9210.8
77.5°	610.0	798.5	1352.2	1905.9	3713.1	5519.4	6405.7
80°	470.8	616.9	929.8	1242.6	2555.4	3868.1	4367.5
82.5°	335.6	430.3	563.6	696.8	1697.7	2697.5	2739.0
85°	207.3	250.7	322.8	394.8	1123.2	1851.6	1542.7
87.5°	111.5	133.2	170.8	207.3	359.3	511.3	294.1
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: P320489
 CATALOG NUMBER: GLEON-SA5C-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

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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

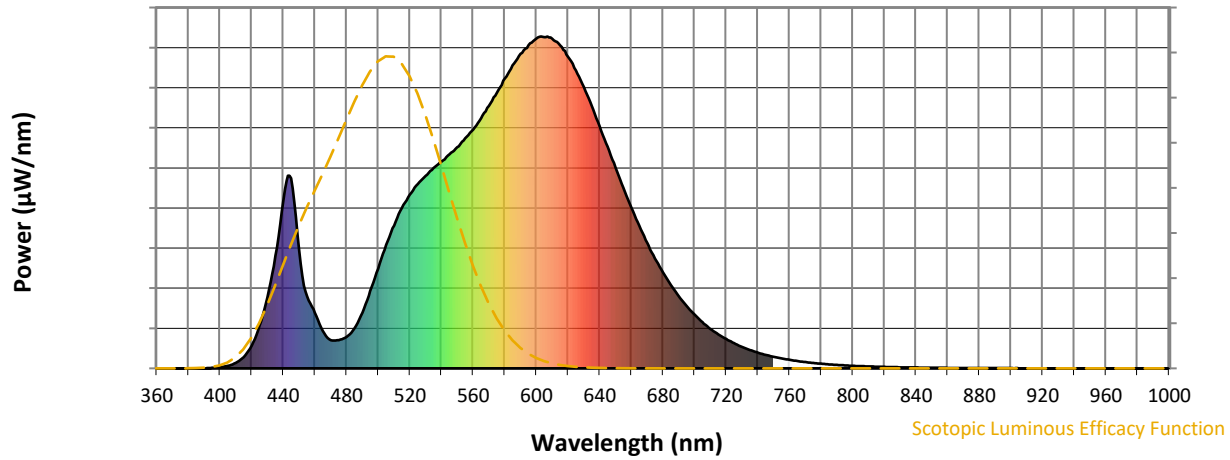


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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			

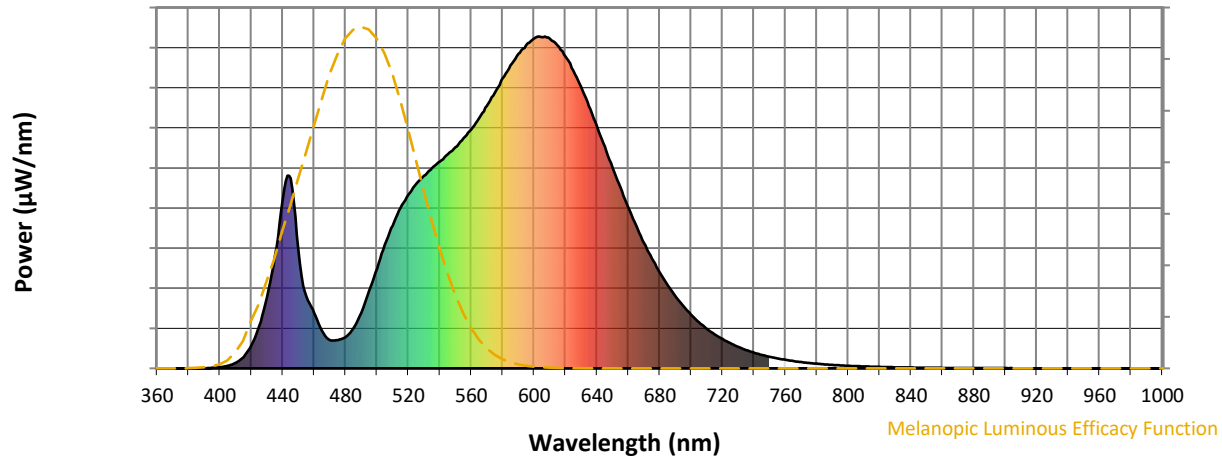
REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.27

λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /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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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			

REPORT NUMBER: SP1-2408-195-9

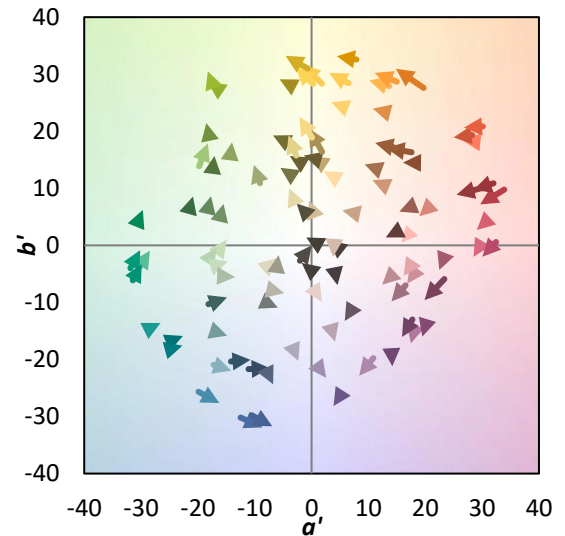
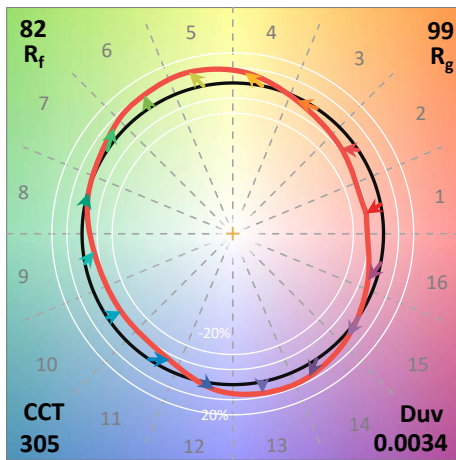
TM-30-18

Summary

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



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)