

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: P193210

Luminaire Tested: **GLEON-AF-02-LED-E1-T3R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T3R-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7935.5 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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: 25 FT

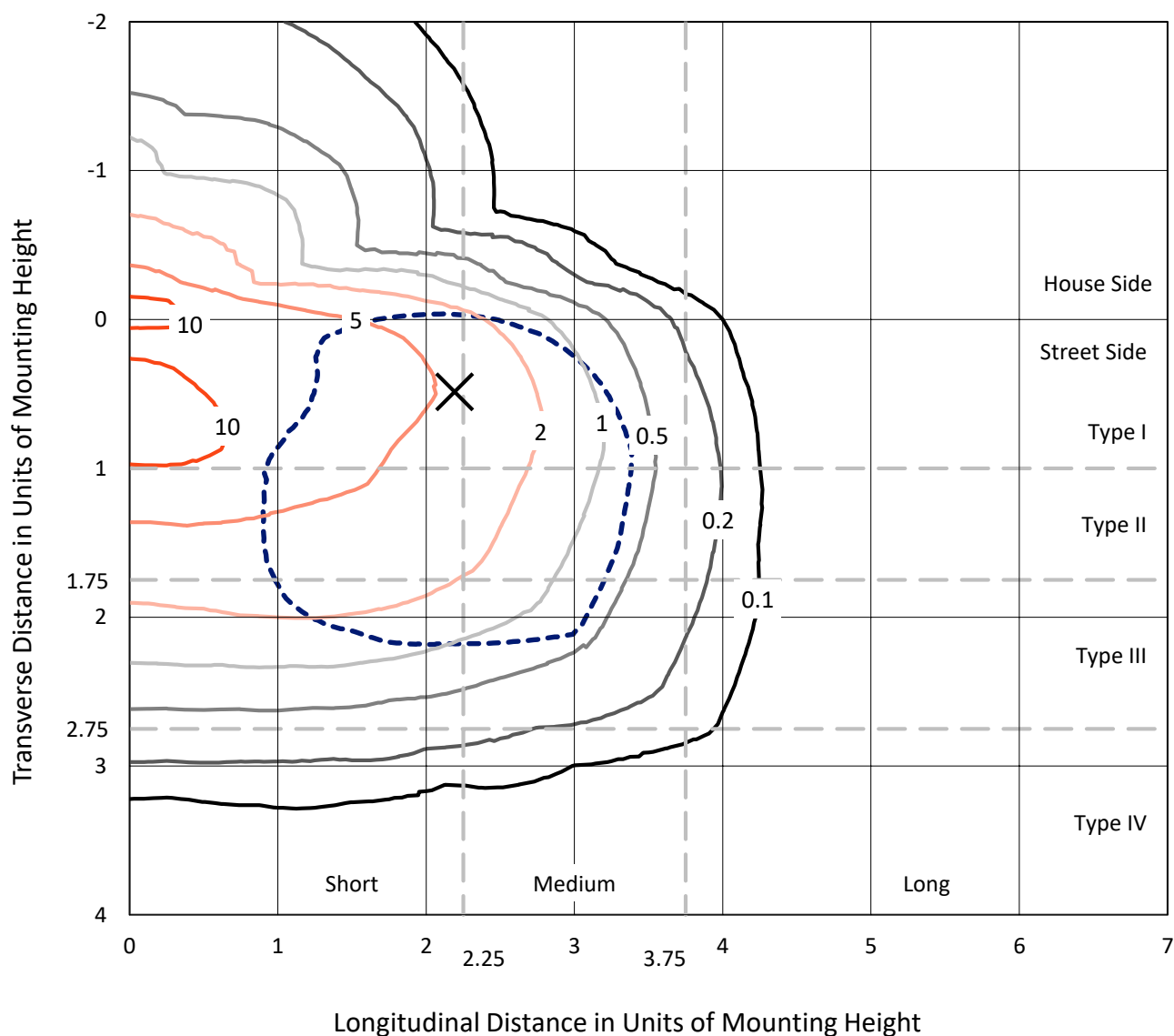


REPORT NUMBER: P193210

CATALOG NUMBER: GLEON-AF-02-LED-E1-T3R-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

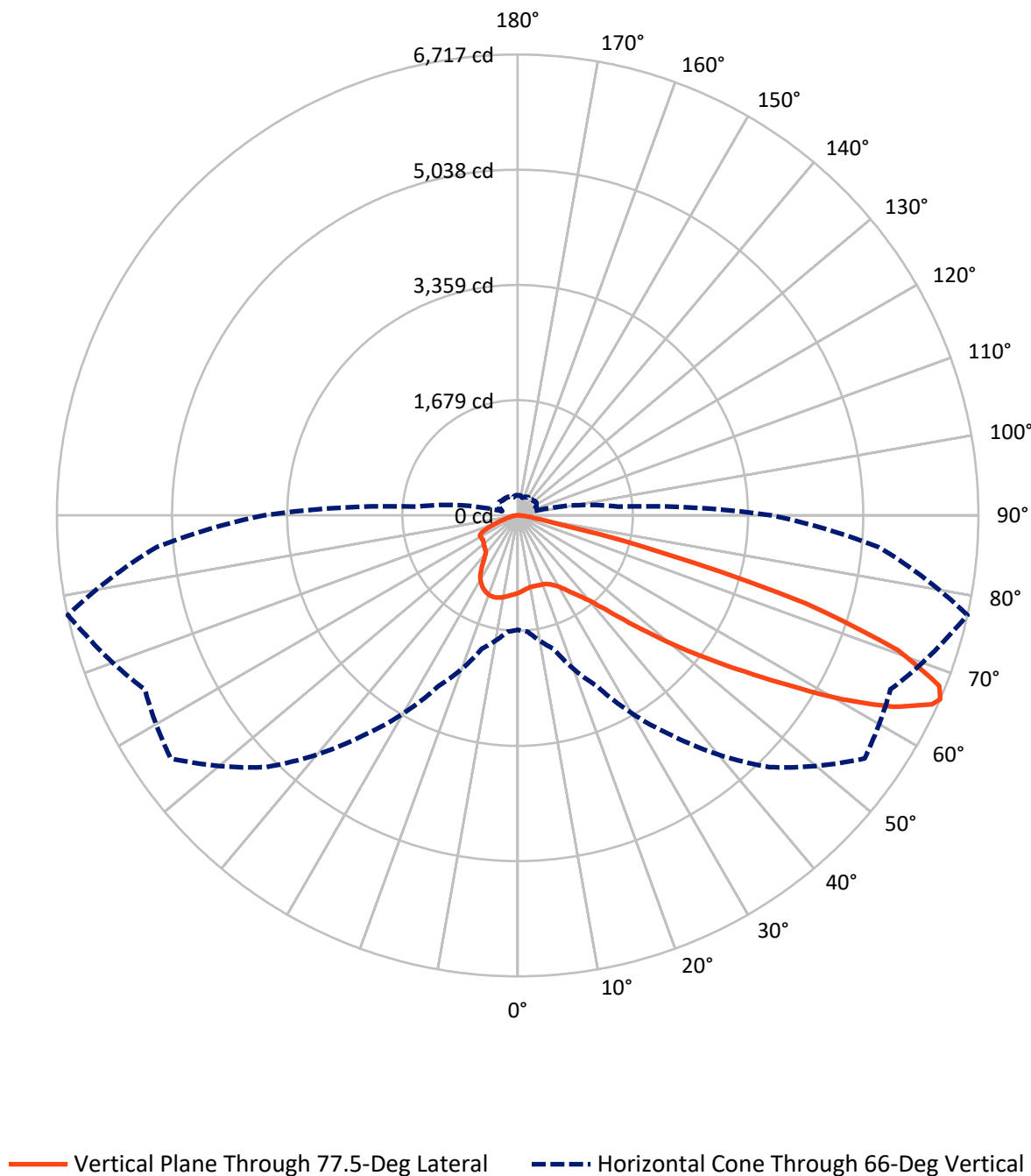


Based on 10 foot mounting height. Maximum calculated value = 13.9 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P193210

CATALOG NUMBER: GLEON-AF-02-LED-E1-T3R-7030-600

Luminous Intensity Polar Plot



REPORT NUMBER: P193210

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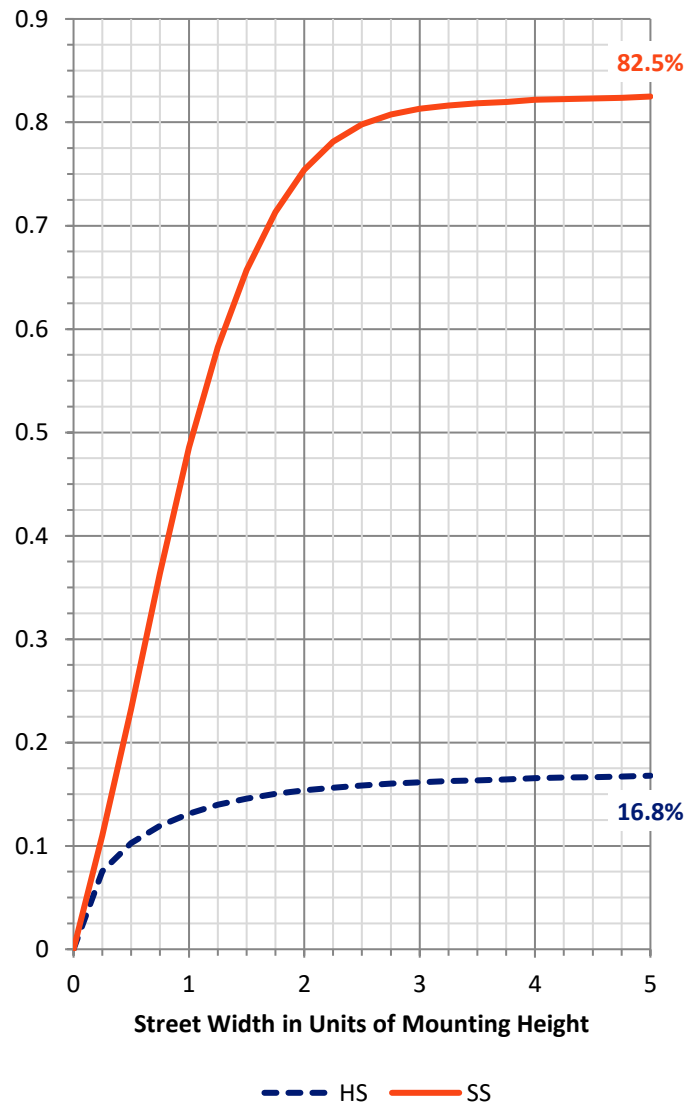
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1355.7	0.0	1355.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	6579.8	0.0	6579.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	7935.5	0.0	7935.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	1.3
10°-20°	285.0	3.6
20°-30°	486.4	6.1
30°-40°	778.7	9.8
40°-50°	1203.0	15.2
50°-60°	1706.3	21.5
60°-70°	2282.6	28.8
70°-80°	991.3	12.5
80°-90°	101.1	1.3
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°	7935.5	100.0
0°-180°	7935.5	100.0

Coefficient of Utilization



REPORT NUMBER: P193210

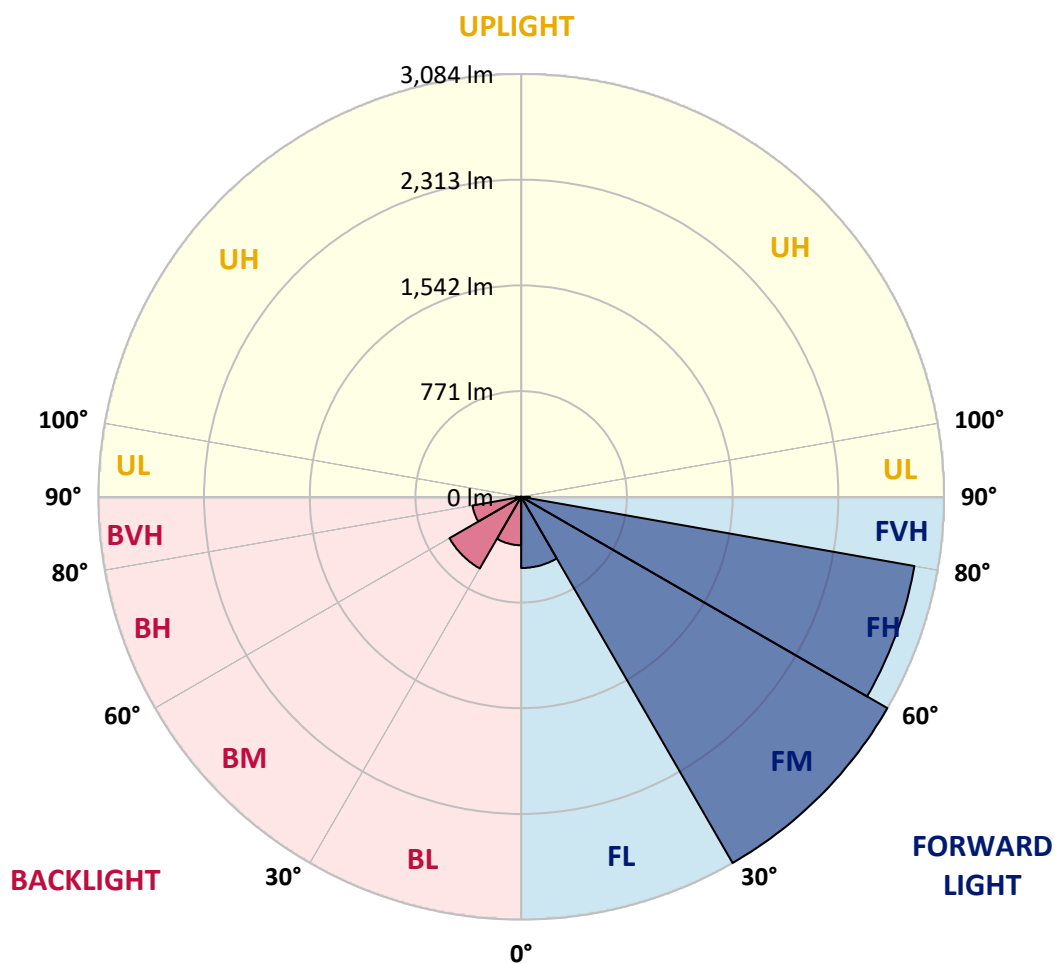
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	519.4	6.5			
FM	(30°-60°)	3084.1	38.9			
FH	(60°-80°)	2912.8	36.7			G2/5000
FVH	(80°-90°)	63.4	0.8			G1/100
BL	(0°-30°)	353.1	4.4	B1/500		
BM	(30°-60°)	603.9	7.6	B1/1000		
BH	(60°-80°)	361.1	4.5	B1/500		G1/500
BVH	(80°-90°)	37.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P193210

CATALOG NUMBER: GLEON-AF-02-LED-E1-T3R-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9
2.5°	1000.4	1007.2	1012.8	1018.0	1028.4	1045.7	1065.6	1081.7	1104.9	1109.5	1121.9
5°	908.5	908.5	913.0	920.8	935.1	961.1	988.0	1024.0	1074.6	1086.6	1119.6
7.5°	863.9	864.2	866.9	873.6	886.0	909.6	939.3	981.5	1050.2	1070.0	1126.4
10°	880.4	876.6	871.1	867.6	869.4	883.4	911.6	958.7	1035.2	1060.7	1141.3
12.5°	972.6	965.6	945.9	920.1	895.4	885.2	901.7	947.9	1028.9	1058.5	1161.2
15°	1123.3	1120.4	1084.0	1030.4	970.3	920.1	908.9	943.8	1029.7	1061.1	1184.8
17.5°	1312.3	1308.2	1260.2	1182.1	1084.4	986.5	933.9	947.2	1032.3	1065.6	1207.8
20°	1503.2	1490.4	1438.7	1345.7	1220.1	1076.9	975.5	955.7	1035.6	1070.5	1231.7
22.5°	1645.7	1635.2	1588.6	1498.3	1353.6	1181.4	1031.5	970.8	1046.4	1084.7	1261.3
25°	1770.9	1771.6	1725.5	1638.2	1488.5	1292.4	1103.5	1010.8	1074.2	1114.0	1301.9
27.5°	1925.7	1916.7	1873.6	1787.1	1622.1	1404.5	1190.5	1066.0	1115.4	1155.6	1355.1
30°	2111.0	2104.6	2054.7	1956.5	1770.1	1524.9	1289.8	1130.1	1168.7	1210.4	1424.8
32.5°	2328.9	2325.8	2274.0	2147.7	1941.1	1666.6	1406.3	1214.9	1248.2	1291.3	1524.9
35°	2584.5	2584.8	2523.8	2371.9	2128.3	1831.6	1538.8	1323.9	1345.0	1389.9	1644.2
37.5°	2742.0	2761.1	2738.2	2583.4	2340.0	2016.1	1710.6	1468.7	1455.3	1500.5	1771.9
40°	2775.7	2799.0	2871.4	2792.6	2577.0	2219.3	1862.8	1607.7	1591.0	1646.4	1936.6
42.5°	2728.5	2760.8	2913.7	2969.2	2828.6	2469.8	2067.5	1814.4	1793.1	1867.6	2141.4
45°	2700.4	2724.4	2901.4	3061.1	3046.8	2752.9	2328.1	2073.8	2066.0	2163.9	2377.6
47.5°	2651.6	2673.3	2843.6	3082.4	3175.1	3012.4	2641.2	2391.0	2406.4	2534.7	2644.2
50°	2677.8	2686.9	2779.1	3028.1	3212.2	3202.4	2991.0	2758.5	2811.0	2971.1	2945.9
52.5°	2674.1	2697.4	2771.6	2938.8	3217.0	3319.9	3335.5	3168.3	3279.0	3462.7	3280.8
55°	2161.9	2204.8	2683.5	2916.3	3234.3	3434.9	3642.2	3600.3	3806.5	4020.6	3658.8
57.5°	2064.5	2091.4	2356.9	2963.5	3325.9	3654.6	3983.5	4075.7	4420.6	4669.2	4119.2
60°	2045.4	2078.7	2353.6	3021.3	3511.4	4012.6	4489.3	4651.2	5168.0	5440.1	4653.2
62.5°	1985.7	2021.8	2331.5	3013.8	3775.0	4508.0	5136.9	5263.1	5876.6	6141.3	5099.6
65°	1796.8	1830.5	2151.1	2892.7	3952.7	5036.8	5903.2	5824.1	6436.0	6635.1	5322.4
66°	1667.4	1700.4	2009.0	2750.3	3911.5	5186.6	6174.7	5997.7	6561.2	6717.3	5278.9
67.5°	1430.9	1456.7	1733.0	2431.1	3692.1	5228.7	6403.0	6128.2	6574.3	6629.6	5030.3
70°	904.0	911.6	1126.4	1678.2	2794.9	4534.6	6055.4	5804.2	6032.2	5882.9	4217.1
72.5°	392.2	389.6	540.8	853.8	1582.3	3042.8	4898.3	4789.3	4731.9	4391.4	2951.9
75°	218.2	221.2	280.8	396.3	643.0	1494.5	3204.3	3066.4	2589.0	2209.2	1338.5
77.5°	175.2	179.1	232.8	281.3	288.7	521.1	1499.5	1220.1	734.6	589.5	371.9
80°	138.3	145.9	203.2	218.9	194.6	214.8	484.4	387.4	290.6	266.6	192.8
82.5°	109.5	114.7	174.4	165.7	136.1	144.8	232.0	226.0	189.0	172.1	111.3
85°	78.7	88.5	143.2	124.9	89.3	97.5	154.0	147.7	108.3	88.5	49.1
87.5°	32.2	41.9	101.3	82.8	49.8	45.4	76.9	72.3	51.4	37.4	24.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P193210

CATALOG NUMBER: GLEON-AF-02-LED-E1-T3R-7030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9
2.5°	1129.7	1138.7	1150.4	1157.5	1161.2	1163.8	1168.0	1167.6	1168.7	1169.1	1170.6
5°	1137.2	1152.2	1169.1	1173.6	1173.6	1169.5	1165.4	1158.5	1156.0	1155.2	1156.0
7.5°	1156.7	1173.2	1187.8	1182.6	1171.4	1154.9	1133.4	1114.8	1104.6	1101.3	1100.5
10°	1181.4	1201.3	1207.4	1187.4	1154.5	1114.8	1072.4	1041.6	1024.0	1019.1	1017.6
12.5°	1211.4	1230.3	1221.9	1180.0	1118.9	1054.7	996.2	947.2	910.3	898.7	898.0
15°	1244.5	1259.1	1230.3	1156.7	1065.6	971.1	866.9	782.2	736.4	721.7	720.7
17.5°	1275.2	1282.7	1225.4	1116.2	987.2	834.3	695.9	630.7	614.9	618.6	619.4
20°	1301.5	1301.5	1208.9	1058.0	863.9	653.9	566.5	565.4	576.7	588.0	590.2
22.5°	1330.3	1313.1	1180.0	976.0	689.2	535.1	522.3	532.7	545.5	557.9	559.9
25°	1366.0	1322.5	1139.8	851.4	541.8	485.9	490.8	499.5	505.8	513.6	514.8
27.5°	1405.7	1334.5	1087.0	680.1	470.2	455.2	458.9	461.9	461.2	464.2	464.9
30°	1453.2	1348.4	1014.6	531.6	440.6	429.0	422.2	419.5	419.5	424.5	426.3
32.5°	1517.1	1368.9	910.7	455.6	426.3	410.2	388.4	378.7	382.4	398.9	402.7
35°	1587.2	1391.1	770.2	429.7	423.3	401.5	367.8	349.8	350.1	365.6	370.5
37.5°	1663.7	1419.2	616.0	424.8	430.1	402.0	356.9	332.2	322.1	322.1	324.0
40°	1761.5	1448.0	498.7	428.2	444.3	406.5	351.4	318.4	289.9	290.6	292.0
42.5°	1889.0	1472.9	435.7	435.3	461.5	412.5	350.9	299.9	275.3	292.0	307.4
45°	2030.7	1485.2	408.0	441.7	475.4	416.2	344.9	296.9	277.1	327.3	356.6
47.5°	2193.8	1478.1	392.6	443.9	478.8	416.2	338.1	304.1	290.2	379.0	413.2
50°	2372.7	1457.4	377.6	439.4	477.7	415.4	344.6	311.2	295.1	388.1	411.7
52.5°	2583.0	1440.1	361.8	429.7	469.9	411.4	352.1	308.2	279.7	352.8	369.3
55°	2823.0	1445.1	344.1	415.8	457.5	403.5	349.4	296.2	263.7	310.9	321.0
57.5°	3129.7	1503.2	323.2	398.2	440.6	390.3	340.2	290.6	258.7	282.0	288.0
60°	3472.0	1604.4	296.9	380.6	419.5	369.3	332.9	293.3	260.9	279.7	282.8
62.5°	3723.2	1663.3	274.5	354.6	391.0	346.1	324.0	296.6	266.9	287.6	286.8
65°	3791.6	1566.6	246.4	316.9	352.5	321.7	312.7	300.4	269.6	293.9	290.6
66°	3695.9	1462.3	234.0	299.3	332.9	309.8	307.1	299.9	268.4	294.7	289.1
67.5°	3463.7	1248.7	212.6	273.3	301.9	291.7	298.1	296.6	265.5	293.9	286.0
70°	2824.9	851.9	181.8	227.6	251.2	256.9	280.8	284.6	255.6	280.8	263.7
72.5°	1973.8	519.0	160.8	176.6	203.2	218.9	257.2	268.1	242.5	245.2	228.7
75°	953.9	275.6	145.9	136.9	157.9	183.0	228.7	245.7	222.1	205.1	199.1
77.5°	297.3	168.4	123.7	110.3	123.7	147.7	191.2	215.2	197.6	171.7	169.5
80°	159.7	123.7	95.3	88.5	97.9	115.9	150.3	179.6	169.9	154.0	137.5
82.5°	105.3	80.2	70.5	68.7	74.7	88.5	111.8	148.8	148.8	131.9	96.0
85°	54.4	49.1	48.4	48.4	52.1	58.9	76.2	114.7	122.3	69.7	57.7
87.5°	27.0	28.1	26.2	27.5	29.3	28.9	36.4	57.7	69.0	42.4	35.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)