

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: P322997

Luminaire Tested: **GLEON-SA3B-827-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322997  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3B-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9295 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

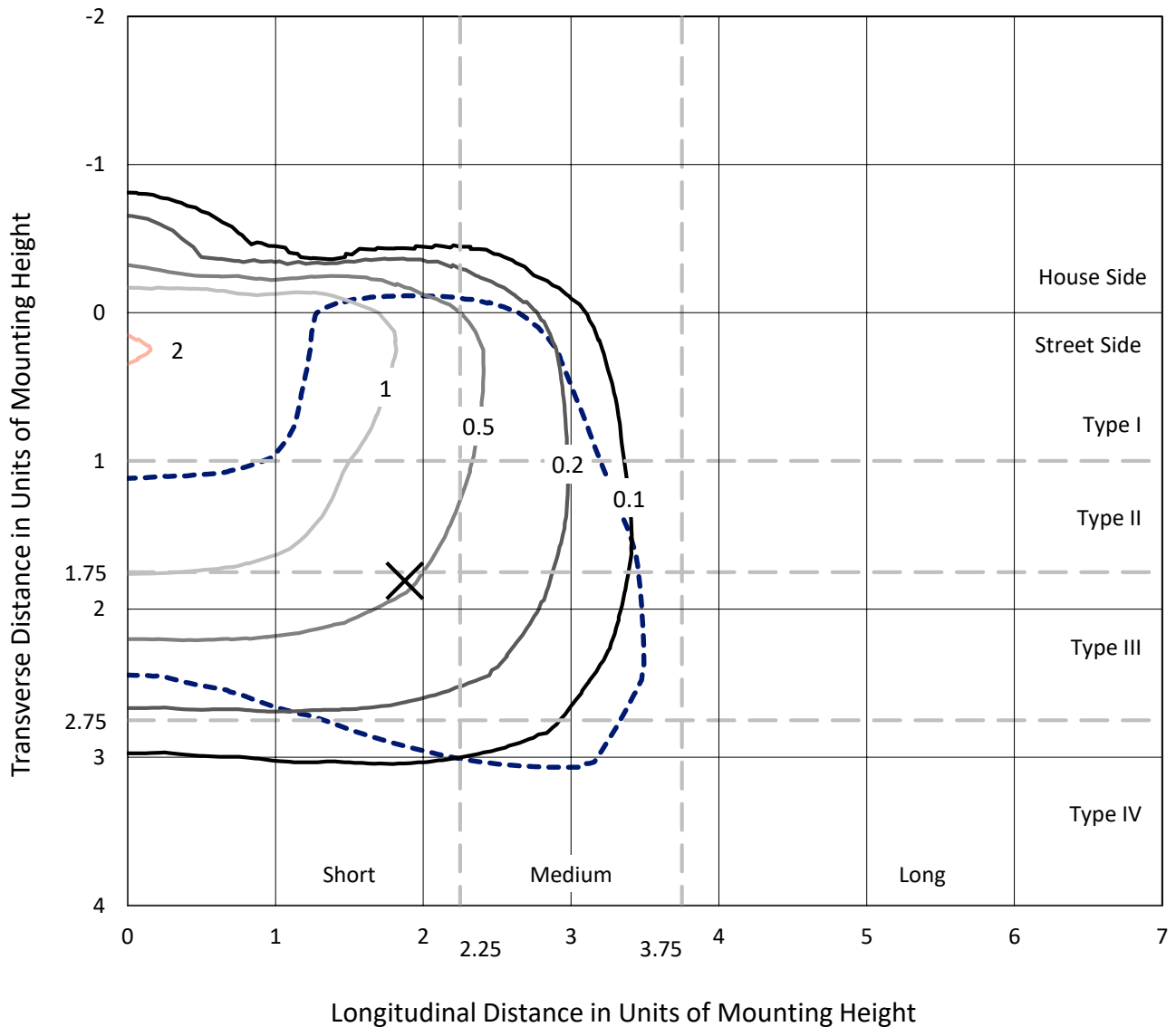
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P322997  
 CATALOG NUMBER: GLEON-SA3B-827-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

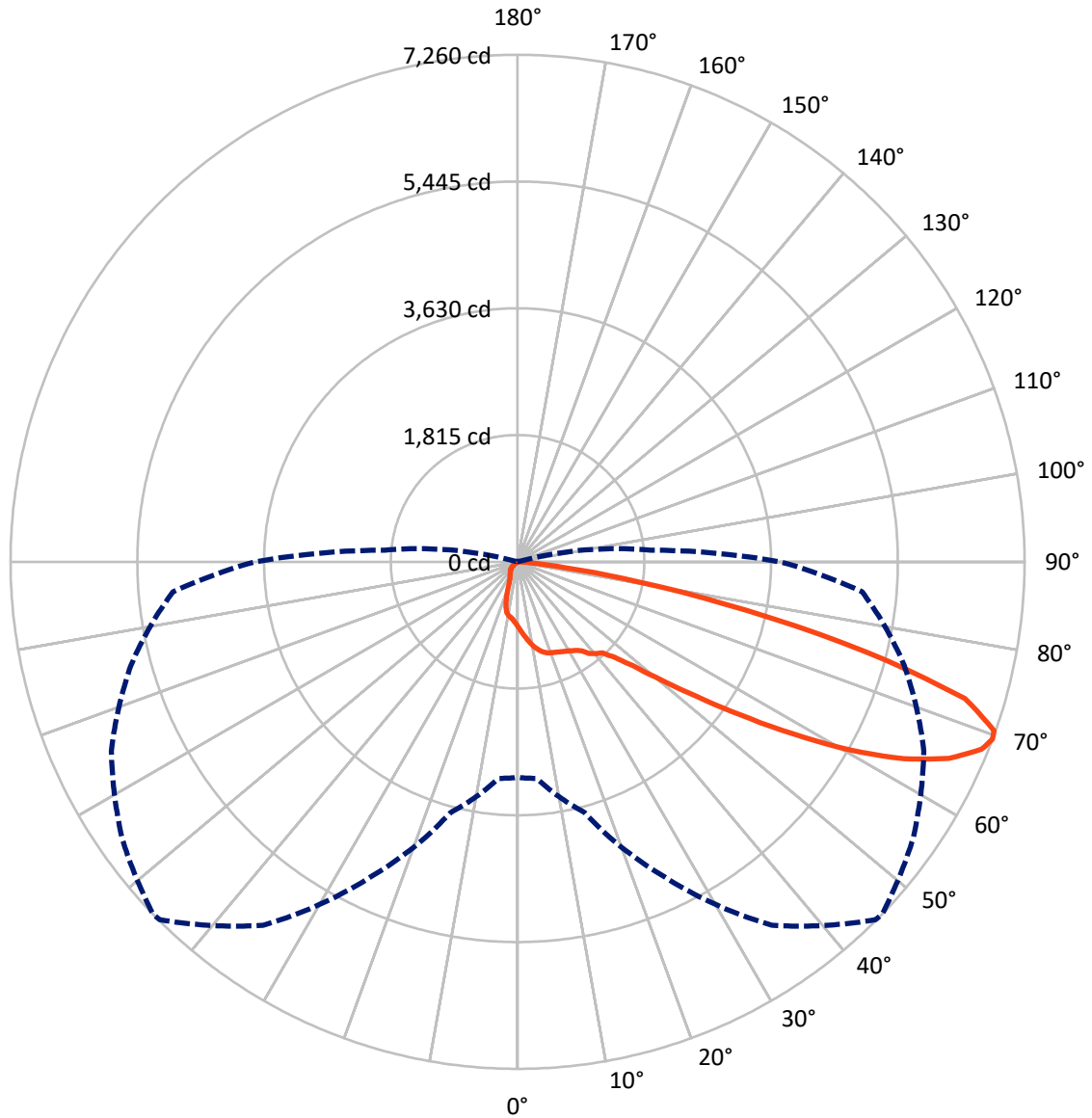
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P322997  
CATALOG NUMBER: GLEON-SA3B-827-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P322997  
 CATALOG NUMBER: GLEON-SA3B-827-U-T4W-HSS

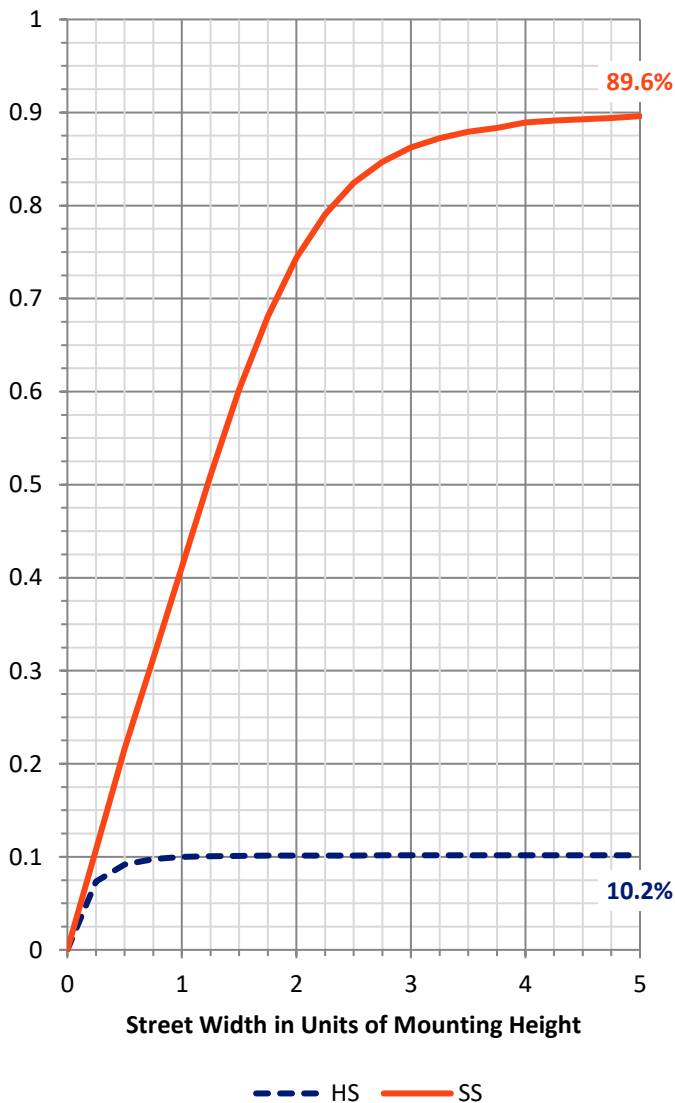
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	953.9	0.0	953.9
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	8341.1	0.0	8341.1
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	9295.0	0.0	9295.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.7	1.0
10°-20°	281.2	3.0
20°-30°	442.3	4.8
30°-40°	634.2	6.8
40°-50°	1096.2	11.8
50°-60°	2165.6	23.3
60°-70°	3026.6	32.6
70°-80°	1462.2	15.7
80°-90°	94.0	1.0
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°	9295.0	100.0
0°-180°	9295.0	100.0

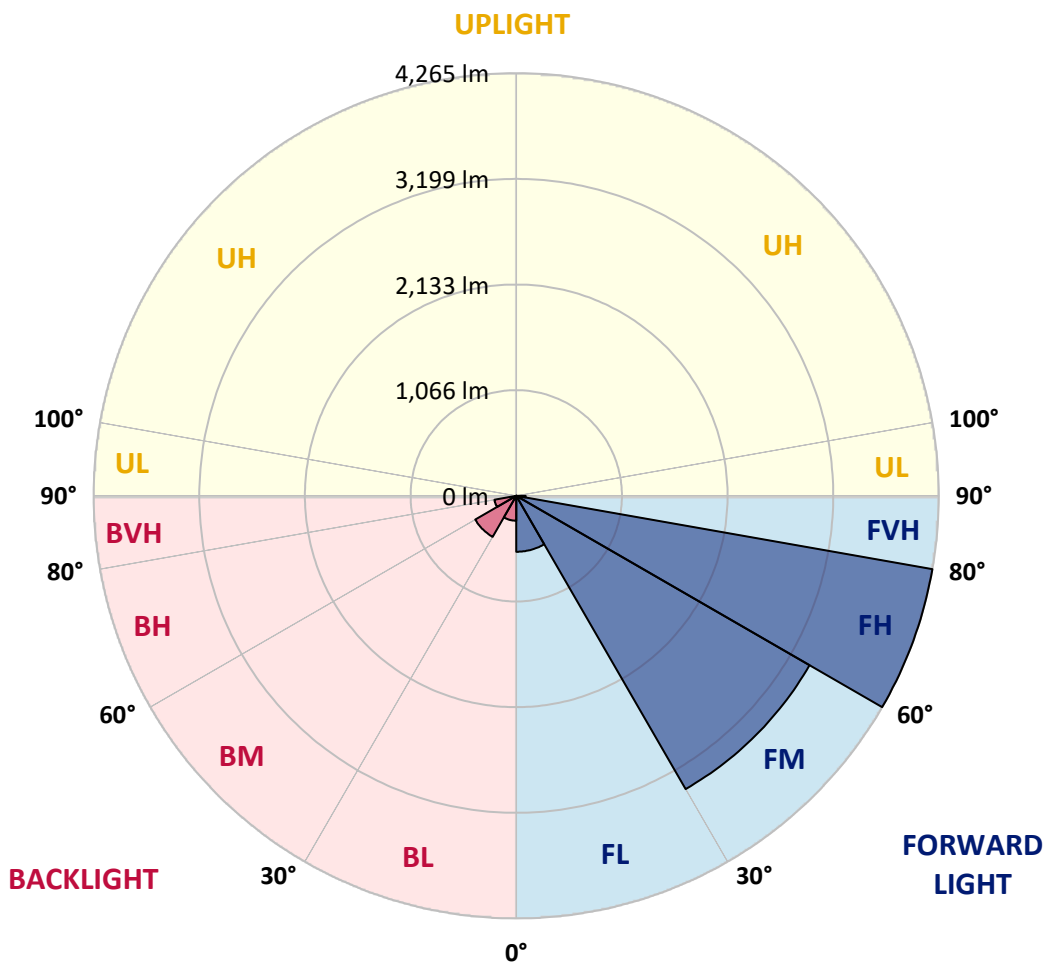


REPORT NUMBER: P322997  
 CATALOG NUMBER: GLEON-SA3B-827-U-T4W-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	564.8	6.1			
FM (30°-60°)	3418.0	36.8			
FH (60°-80°)	4265.1	45.9			G2/5000
FVH (80°-90°)	93.2	1.0			G1/100
BL (0°-30°)	251.4	2.7	B1/500		
BM (30°-60°)	478.0	5.1	B1/1000		
BH (60°-80°)	223.7	2.4	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Short





REPORT NUMBER: P322997

CATALOG NUMBER: GLEON-SA3B-827-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3
2.5°	1034.6	1033.3	1027.2	1024.6	1009.8	1001.1	997.6	986.7	971.0	955.3	937.9
5°	1152.3	1151.8	1140.5	1129.6	1101.7	1075.6	1070.8	1045.5	1010.2	977.1	944.0
7.5°	1272.6	1266.9	1255.6	1234.6	1194.1	1152.3	1148.4	1112.6	1062.5	1014.6	967.1
10°	1374.5	1371.1	1356.2	1324.4	1276.9	1229.4	1224.6	1180.6	1124.0	1065.1	1004.5
12.5°	1453.9	1451.2	1431.6	1392.0	1341.4	1292.2	1285.6	1246.4	1185.8	1120.0	1048.6
15°	1502.2	1500.9	1477.0	1434.7	1385.0	1342.3	1336.6	1302.2	1246.0	1177.1	1096.5
17.5°	1513.6	1514.0	1489.2	1446.5	1405.5	1375.0	1370.6	1344.5	1297.4	1229.0	1144.4
20°	1488.3	1493.5	1471.3	1434.2	1409.0	1392.8	1389.4	1373.7	1334.0	1269.5	1182.8
22.5°	1452.6	1455.2	1439.9	1415.1	1404.6	1407.7	1405.9	1397.2	1363.6	1304.4	1220.7
25°	1430.8	1430.8	1421.6	1400.7	1407.7	1426.4	1426.8	1425.1	1398.5	1347.1	1266.9
27.5°	1429.9	1427.3	1416.8	1401.1	1420.3	1449.1	1450.8	1462.6	1446.0	1398.9	1324.4
30°	1464.8	1461.7	1439.5	1419.0	1443.4	1474.3	1478.7	1504.4	1496.1	1455.2	1388.5
32.5°	1546.3	1535.4	1486.1	1452.6	1470.9	1507.9	1513.6	1554.5	1567.6	1524.5	1450.4
35°	1657.8	1623.4	1552.4	1516.2	1517.9	1556.7	1561.9	1622.1	1660.9	1588.1	1498.3
37.5°	1811.7	1794.7	1679.2	1582.4	1590.3	1649.1	1664.4	1729.7	1718.8	1623.0	1552.8
40°	2149.0	2122.4	1999.5	1768.1	1659.6	1724.1	1728.9	1763.7	1764.6	1701.8	1666.1
42.5°	2608.3	2597.4	2468.0	2105.0	1796.0	1774.2	1782.9	1841.7	1907.5	1868.3	1866.6
45°	3116.9	3111.2	2974.0	2552.1	2071.8	1938.5	1949.4	2028.3	2154.2	2162.9	2218.3
47.5°	3526.1	3523.5	3444.6	3051.1	2494.1	2217.0	2220.4	2304.1	2525.5	2634.9	2723.4
50°	3899.2	3911.8	3849.5	3591.1	3069.4	2653.2	2644.9	2700.7	3056.3	3235.4	3345.3
52.5°	4417.8	4435.7	4260.9	4094.9	3673.0	3194.5	3187.9	3246.3	3694.4	3828.6	3848.2
55°	4875.8	4845.3	4707.2	4659.2	4409.1	3863.0	3861.3	3912.7	4311.5	4368.6	4404.7
57.5°	5078.0	5066.3	5133.0	5242.8	5180.0	4653.1	4649.2	4610.0	4863.6	4869.7	4980.9
60°	5205.7	5220.1	5424.5	5763.1	5919.6	5503.4	5478.1	5238.9	5391.0	5377.4	5496.4
62.5°	5109.9	5138.2	5506.0	6070.4	6473.1	6245.6	6209.8	5815.0	5841.6	5795.0	5905.7
65°	4600.8	4644.9	5247.6	6012.4	6747.6	6825.6	6789.5	6323.6	6199.4	6122.7	6061.2
67.5°	3735.8	3761.9	4391.2	5508.2	6623.9	7171.7	7164.3	6769.4	6469.6	6067.3	5590.6
69°	3087.3	3113.0	3718.8	4977.4	6351.5	7245.8	7260.1	6912.4	6418.2	5730.9	4953.4
70°	2614.9	2642.3	3206.7	4522.4	6035.5	7211.3	7237.0	6898.9	6270.9	5341.3	4394.3
72.5°	1371.5	1395.0	1974.2	3115.6	4920.3	6621.7	6699.7	6315.7	5315.6	3879.1	2598.3
75°	431.0	444.5	770.9	1628.6	3368.8	5148.6	5166.5	4954.3	3774.5	2133.7	1082.1
77.5°	164.3	160.4	256.7	600.1	1703.1	3242.0	3351.4	3096.0	1980.8	754.4	249.7
80°	88.5	88.9	133.4	248.4	728.7	1666.1	1758.5	1500.5	703.8	235.3	57.5
82.5°	38.4	40.1	75.0	131.6	334.7	614.5	660.7	550.0	268.9	158.2	21.4
85°	8.3	9.2	36.2	71.5	136.4	172.6	180.9	178.2	171.3	122.9	8.3
87.5°	0.0	0.0	16.1	25.7	34.4	39.2	34.4	44.9	94.6	82.8	4.4
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: P322997

CATALOG NUMBER: GLEON-SA3B-827-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3
2.5°	932.2	924.4	910.8	896.0	885.6	874.7	866.0	862.0	857.7	854.6	858.5
5°	930.5	915.2	889.1	863.8	845.5	830.7	818.4	813.7	808.9	805.4	804.9
7.5°	945.7	924.4	884.3	847.2	818.9	798.8	782.3	775.3	769.6	767.0	764.8
10°	974.9	947.4	893.8	845.5	808.9	774.9	739.1	711.7	693.8	685.5	682.5
12.5°	1012.8	978.4	912.1	854.6	801.5	736.1	660.3	594.9	552.6	538.7	530.4
15°	1057.3	1014.6	936.1	866.4	774.4	655.0	526.5	441.0	401.8	394.0	385.3
17.5°	1100.0	1052.9	964.9	868.6	715.2	523.4	385.7	327.7	312.5	317.7	319.0
20°	1137.5	1090.8	993.2	849.4	607.5	392.7	298.5	284.1	289.8	299.8	301.6
22.5°	1175.4	1127.4	1019.4	798.8	469.8	298.1	268.9	272.4	278.0	288.1	289.8
25°	1221.6	1171.9	1043.8	706.0	352.6	253.6	255.4	260.6	266.3	275.4	276.3
27.5°	1274.7	1228.1	1059.9	585.3	261.5	233.2	238.8	246.7	252.3	261.0	262.8
30°	1345.3	1302.2	1065.1	460.2	219.2	214.9	217.5	227.1	235.3	243.2	244.5
32.5°	1411.6	1375.4	1047.7	347.3	203.1	197.9	197.9	203.5	213.1	220.5	222.3
35°	1472.6	1449.1	991.9	254.1	190.9	182.2	177.8	177.8	183.9	190.0	191.8
37.5°	1553.2	1552.4	901.7	202.7	179.1	169.1	159.9	153.0	150.8	152.1	153.0
40°	1691.4	1692.7	784.0	181.7	169.1	155.6	141.6	129.0	117.2	113.3	112.9
42.5°	1907.1	1887.5	660.7	171.7	160.4	141.6	120.7	103.7	85.4	79.8	79.3
45°	2249.6	2133.3	529.9	162.6	151.2	125.9	99.8	76.7	61.9	57.5	57.5
47.5°	2748.6	2456.2	410.5	152.5	139.0	108.1	75.4	55.3	45.3	43.1	43.6
50°	3264.6	2772.6	314.7	139.9	124.2	89.3	55.8	40.1	34.4	34.4	34.9
52.5°	3722.2	3004.5	245.4	126.4	105.9	70.2	42.3	31.4	28.8	28.3	28.8
55°	4150.6	3154.0	187.8	110.7	84.1	52.3	32.2	25.7	24.0	23.1	22.7
57.5°	4563.8	3228.0	140.8	89.3	61.0	37.9	25.7	21.8	20.0	18.7	18.3
60°	4838.8	3167.9	96.7	65.8	42.3	27.5	21.4	18.7	16.6	15.3	14.8
62.5°	4993.9	3003.6	62.3	47.5	30.1	20.5	17.0	15.7	12.6	11.3	11.3
65°	4931.2	2732.5	43.6	34.0	21.8	15.3	12.6	12.6	9.2	7.4	7.0
67.5°	4369.9	2308.5	33.1	25.3	15.7	11.3	9.6	10.9	5.7	3.5	3.5
69°	3759.7	1913.2	28.3	20.9	13.1	9.2	8.3	10.0	3.9	2.6	2.2
70°	3267.7	1650.4	25.7	18.3	10.9	7.8	7.4	9.6	3.9	2.2	1.7
72.5°	1955.0	920.4	19.6	13.1	7.0	6.1	6.1	10.9	3.9	2.2	1.7
75°	790.1	324.2	14.4	9.2	5.2	5.2	7.4	13.9	3.5	1.7	1.3
77.5°	179.1	71.0	8.3	5.7	3.5	5.2	8.7	10.9	2.2	0.9	0.0
80°	43.6	17.4	5.2	3.5	2.2	3.9	6.5	6.1	0.4	0.0	0.0
82.5°	14.4	6.1	2.2	1.7	0.4	1.3	3.1	1.7	0.0	0.0	0.0
85°	6.1	3.5	0.9	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)