

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: STREETWORKS

Report Number: P319673

Luminaire Tested: **GAN-SA9A-740-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9A-740-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41666 lumens  
Efficiency: N/A  
Efficacy: 143.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

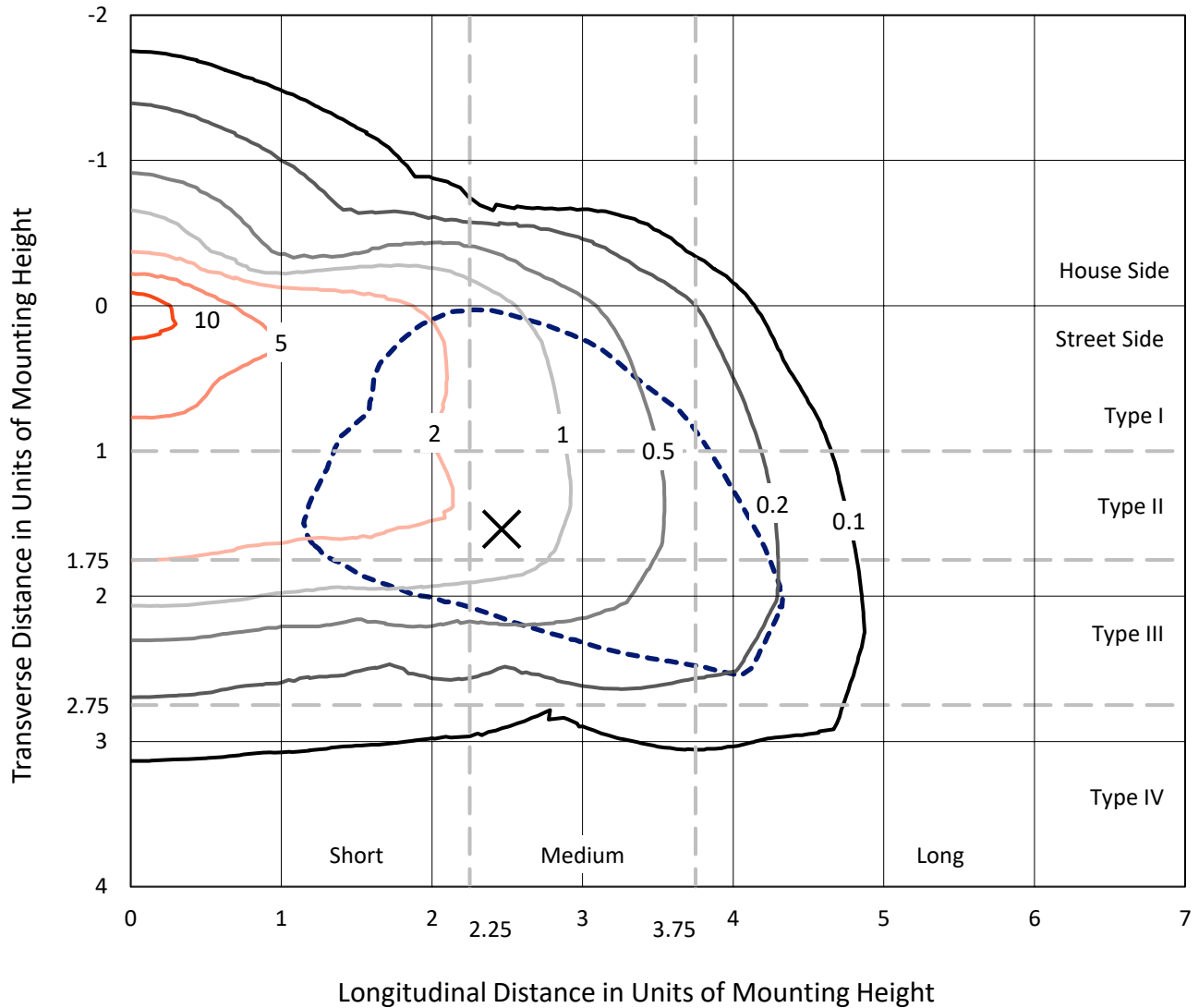
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P319673  
 CATALOG NUMBER: GAN-SA9A-740-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

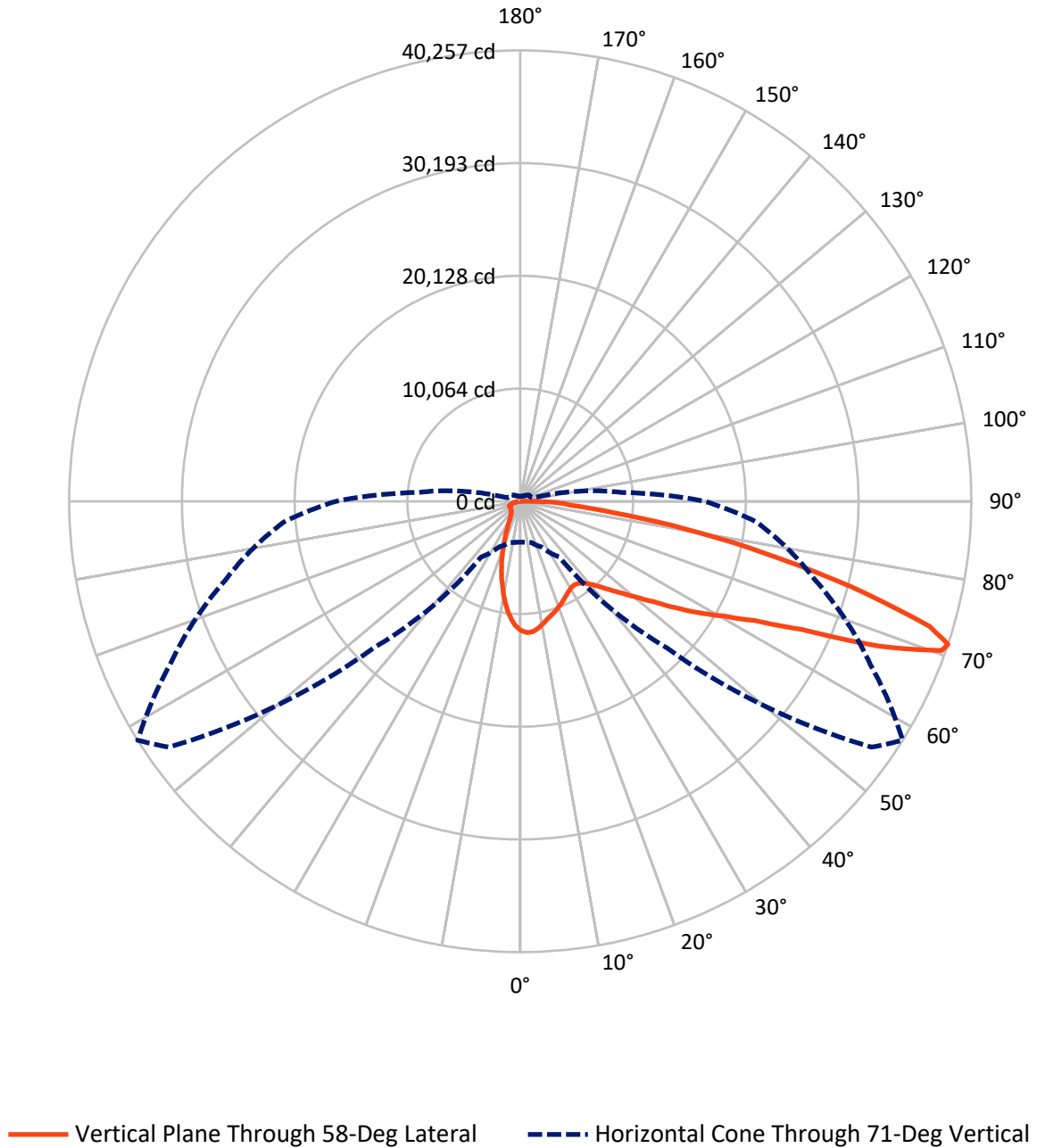
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 fc  
 Type III - Medium - N/A

REPORT NUMBER: P319673  
CATALOG NUMBER: GAN-SA9A-740-U-SL3

### Luminous Intensity Polar Plot



REPORT NUMBER: P319673  
 CATALOG NUMBER: GAN-SA9A-740-U-SL3

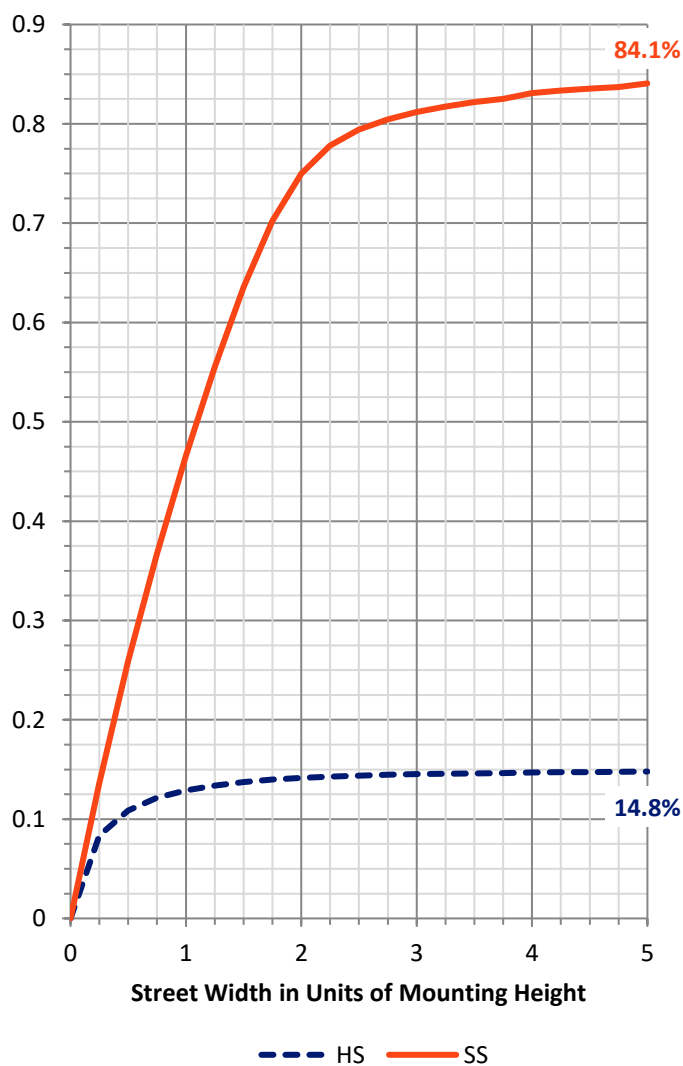
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6229.4	0.0	6229.4
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	35436.7	0.0	35436.7
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	41666.0	0.0	41666.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	995.9	2.4
10°-20°	2214.6	5.3
20°-30°	2814.5	6.8
30°-40°	3585.1	8.6
40°-50°	5083.8	12.2
50°-60°	7867.4	18.9
60°-70°	10710.5	25.7
70°-80°	7145.1	17.1
80°-90°	1249.2	3.0
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°	41666.0	100.0
0°-180°	41666.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P319673

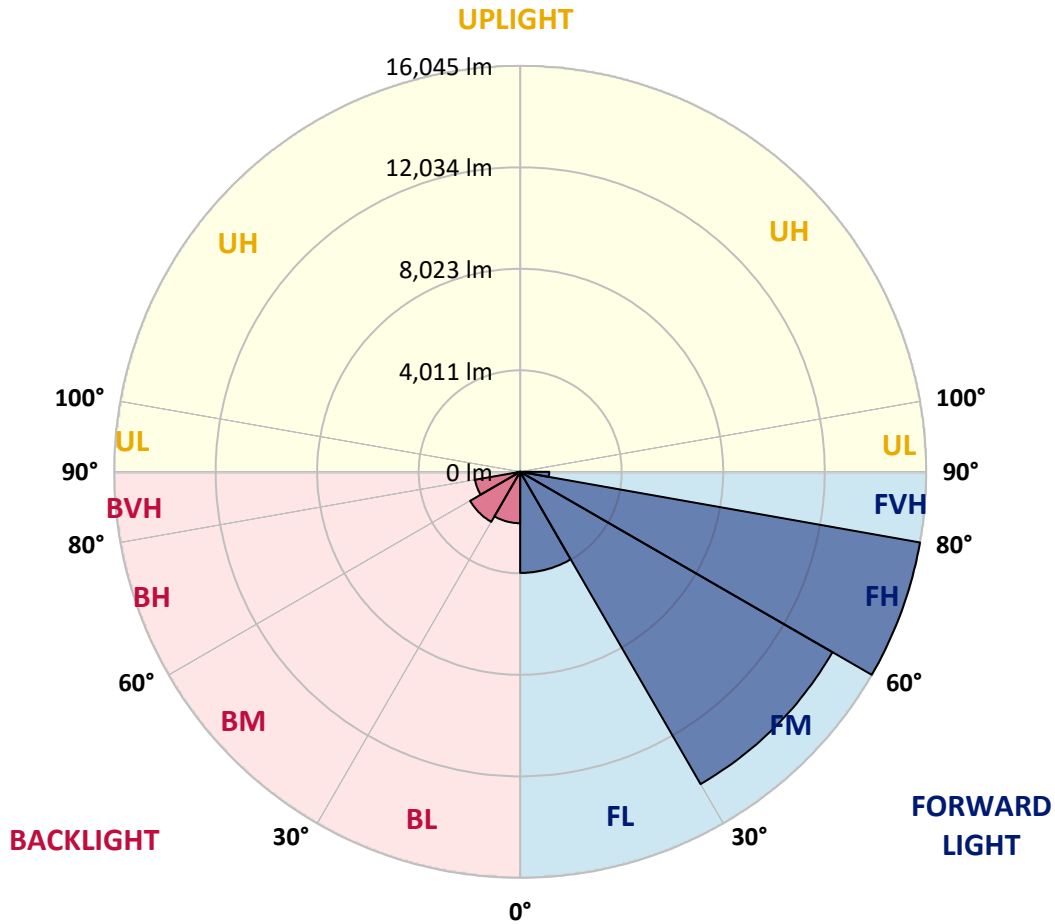
CATALOG NUMBER: GAN-SA9A-740-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3994.4	9.6			
FM (30°-60°)	14251.8	34.2			
FH (60°-80°)	16045.1	38.5			G5
FVH (80°-90°)	1145.4	2.7			G5
BL (0°-30°)	2030.6	4.9	B3/2500		
BM (30°-60°)	2284.5	5.5	B2/2500		
BH (60°-80°)	1810.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	103.8	0.2			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





REPORT NUMBER: P319673

CATALOG NUMBER: GAN-SA9A-740-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11544.3	11544.3	11544.3	11544.3	11544.3	11544.3	11544.3	11544.3	11544.3	11544.3	11544.3
2.5°	11850.5	11834.5	11840.3	11828.7	11801.2	11773.6	11732.9	11740.2	11683.6	11599.4	11494.9
5°	11627.0	11621.2	11664.7	11689.4	11709.7	11693.8	11682.1	11696.7	11613.9	11497.8	11316.4
7.5°	11158.2	11094.3	11149.5	11232.2	11310.6	11370.1	11448.5	11458.6	11406.4	11284.5	11046.4
10°	10492.0	10431.1	10512.3	10641.5	10798.3	10940.5	11098.7	11127.7	11137.9	11027.6	10738.8
12.5°	9801.2	9754.7	9836.0	10017.4	10277.2	10496.4	10748.9	10792.5	10882.4	10808.4	10454.3
15°	9182.9	9165.5	9264.2	9442.7	9741.7	10076.9	10441.2	10521.0	10673.4	10648.8	10232.2
17.5°	8648.8	8644.4	8719.9	8907.1	9238.0	9661.8	10135.0	10270.0	10496.4	10525.4	10049.3
20°	8251.1	8242.4	8294.6	8432.5	8773.6	9254.0	9804.1	9989.8	10316.4	10418.0	9860.7
22.5°	8037.7	8036.3	8037.7	8103.0	8381.7	8828.7	9481.9	9708.3	10140.8	10332.4	9651.7
25°	8001.5	7997.1	7965.2	7957.9	8116.1	8473.1	9162.6	9412.2	9973.9	10272.9	9452.8
27.5°	8095.8	8101.6	8059.5	7991.3	8023.2	8239.5	8885.3	9152.4	9840.3	10261.2	9314.9
30°	8291.7	8288.8	8252.5	8181.4	8119.0	8152.4	8688.0	8955.0	9750.4	10312.0	9220.6
32.5°	8508.0	8523.9	8516.7	8477.5	8384.6	8251.1	8628.4	8889.7	9724.2	10434.0	9180.0
35°	8767.8	8785.2	8837.4	8867.9	8759.1	8544.3	8756.2	8982.6	9799.7	10663.3	9245.3
37.5°	9014.5	9059.5	9206.1	9335.3	9242.4	9002.9	9095.8	9256.9	10033.4	11024.7	9420.9
40°	9299.0	9338.2	9577.6	9852.0	9837.4	9589.3	9643.0	9750.4	10445.6	11542.8	9738.8
42.5°	9579.1	9657.5	10004.4	10393.3	10505.1	10285.9	10371.6	10428.2	11026.1	12229.3	10293.2
45°	9952.1	10036.3	10518.1	10986.9	11248.2	11124.8	11261.2	11283.0	11756.2	13164.0	11098.7
47.5°	10516.7	10612.5	11174.2	11666.2	12065.3	12078.4	12303.3	12294.6	12667.6	14233.7	12113.2
50°	11396.2	11534.1	11994.2	12454.3	12939.0	13209.0	13509.4	13467.3	13760.5	15373.0	13281.6
52.5°	12548.6	12612.5	12953.6	13293.2	13895.5	14500.7	14931.8	14894.0	15000.0	16544.3	14608.1
55°	13743.1	13791.0	13931.8	14117.6	14927.4	15914.4	16825.8	16766.3	16497.8	17760.5	15918.7
57.5°	14817.1	14914.4	15011.6	15088.5	15966.6	17391.9	18763.4	18767.8	18123.4	19072.6	17272.9
60°	14984.0	15069.7	15712.6	16319.3	17744.6	19362.8	20837.4	20793.9	19805.5	20496.4	18782.3
62.5°	13245.3	13438.3	14512.3	16126.3	19457.2	22968.1	23483.3	23429.6	21817.1	22251.1	20539.9
65°	9492.0	9711.2	11007.3	13432.5	18627.0	26940.5	28258.3	27535.6	24560.2	24409.3	22598.0
67.5°	5476.1	5528.3	6090.0	8037.7	14182.9	27148.0	35542.8	34531.2	28820.0	26857.8	23605.2
70°	4049.3	4047.9	4181.4	4946.3	7674.9	22156.7	39007.3	39914.4	33304.8	27663.3	22181.4
71°	3661.8	3666.2	3815.7	4502.2	6078.4	18545.7	38271.4	40256.9	34486.2	27265.6	21150.9
72.5°	3132.1	3146.6	3354.1	4037.7	5113.2	12789.6	35101.6	38201.7	35046.4	26284.5	19538.5
75°	2375.9	2409.3	2696.7	3403.5	4673.4	6486.2	25762.0	30505.1	31133.5	23193.0	14518.1
77.5°	1695.2	1732.9	2058.1	2862.1	4442.7	4888.2	17252.5	22251.1	22911.5	14863.6	6548.6
80°	1071.1	1116.1	1361.4	2277.2	4174.2	4641.5	10841.8	14956.5	12493.5	4756.2	1666.2
82.5°	628.4	663.3	844.7	1487.7	3409.3	4470.2	6378.8	8290.3	4862.1	1436.9	757.6
85°	364.3	380.3	526.9	947.8	2476.1	4219.2	4686.5	4634.3	2110.3	702.5	358.5
87.5°	169.8	188.7	312.0	494.9	1374.5	3058.1	3703.9	3200.3	1312.0	329.5	168.4
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: P319673  
 CATALOG NUMBER: GAN-SA9A-740-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11544.3	11544.3	11544.3	11544.3	11544.3	11544.3	11544.3	11544.3	11544.3	11544.3	11544.3
2.5°	11444.1	11419.4	11316.4	11225.0	11129.2	11004.4	10866.5	10849.1	10764.9	10780.8	10751.8
5°	11217.7	11155.3	10907.1	10682.1	10416.5	10178.5	9920.2	9801.2	9629.9	9618.3	9574.7
7.5°	10894.0	10777.9	10393.3	9966.6	9539.9	9133.5	8731.5	8467.3	8197.4	8082.7	8072.6
10°	10529.8	10332.4	9766.3	9135.0	8519.6	7926.0	7351.2	6926.0	6542.8	6361.4	6354.1
12.5°	10184.3	9892.6	9116.1	8256.9	7415.1	6645.9	5857.8	5299.0	4818.6	4657.5	4589.3
15°	9891.1	9480.4	8483.3	7384.6	6362.8	5294.6	4397.7	3809.9	3365.7	3211.9	3182.9
17.5°	9606.7	9078.4	7834.5	6503.6	5268.5	4094.3	3195.9	2759.1	2522.5	2460.1	2458.6
20°	9323.7	8664.7	7156.7	5602.3	4210.5	3062.4	2457.2	2261.2	2181.4	2174.2	2162.6
22.5°	9002.9	8226.4	6444.1	4698.1	3285.9	2407.8	2088.5	2010.2	2000.0	2026.1	2026.1
25°	8702.5	7791.0	5721.3	3812.8	2555.9	2008.7	1865.0	1849.1	1876.6	1923.1	1927.4
27.5°	8422.4	7371.6	5016.0	3026.1	2047.9	1769.2	1709.7	1728.6	1777.9	1831.6	1833.1
30°	8191.6	6975.3	4330.9	2384.6	1730.0	1590.7	1580.6	1618.3	1672.0	1714.1	1724.2
32.5°	8013.1	6637.2	3669.1	1917.3	1522.5	1457.2	1465.9	1497.8	1531.2	1554.4	1570.4
35°	7930.3	6346.9	3058.1	1616.8	1390.4	1354.1	1365.7	1383.2	1397.7	1415.1	1428.2
37.5°	7944.8	6121.9	2512.3	1429.6	1301.9	1283.0	1283.0	1283.0	1283.0	1291.7	1293.2
40°	8079.8	5992.7	2068.2	1310.6	1242.4	1222.1	1206.1	1191.6	1180.0	1185.8	1182.9
42.5°	8425.3	5981.1	1743.1	1235.1	1194.5	1161.1	1129.2	1108.9	1094.3	1100.1	1103.0
45°	9011.6	6126.3	1523.9	1181.4	1149.5	1098.7	1058.1	1036.3	1026.1	1045.0	1047.9
47.5°	9770.7	6442.7	1390.4	1142.2	1107.4	1040.6	997.1	976.8	979.7	1007.3	1014.5
50°	10748.9	6956.5	1326.6	1117.6	1078.4	991.3	946.3	928.9	937.6	976.8	985.5
52.5°	11822.9	7696.7	1333.8	1110.3	1059.5	955.0	907.1	886.8	901.3	937.6	944.8
55°	13062.4	8586.4	1454.3	1120.5	1031.9	931.8	875.2	840.3	852.0	885.3	891.1
57.5°	14439.8	9605.2	1696.7	1117.6	997.1	910.0	841.8	789.6	798.3	818.6	824.4
60°	15873.7	10836.0	2072.6	1126.3	981.1	883.9	796.8	731.5	728.6	746.0	748.9
62.5°	17595.1	12259.8	2502.2	1132.1	991.3	850.5	737.3	673.4	664.7	669.1	672.0
65°	19368.7	13290.3	2341.1	1108.9	1023.2	822.9	685.1	616.8	600.9	598.0	599.4
67.5°	19423.8	12185.8	1641.5	1062.4	1036.3	808.4	645.9	568.9	542.8	532.7	531.2
70°	17419.4	9899.9	1278.7	1013.1	984.0	785.2	609.6	529.8	490.6	474.6	473.1
71°	16441.2	9113.2	1211.9	988.4	944.8	762.0	593.6	512.3	471.7	454.3	451.4
72.5°	14907.1	8169.8	1130.6	949.2	869.4	702.5	563.1	487.7	445.6	425.3	420.9
75°	10698.1	5342.5	971.0	846.2	719.9	560.2	493.5	438.3	402.0	377.4	374.5
77.5°	4121.9	2126.3	734.4	703.9	551.5	438.3	406.4	378.8	352.7	328.0	326.6
80°	1274.3	950.7	535.6	529.8	399.1	326.6	316.4	309.1	299.0	272.9	267.1
82.5°	680.7	545.7	368.7	342.5	261.2	217.7	229.3	232.2	233.7	206.1	203.2
85°	325.1	288.8	207.5	194.5	152.4	121.9	140.8	152.4	153.8	126.3	117.6
87.5°	155.3	150.9	97.2	74.0	56.6	40.6	49.3	61.0	66.8	47.9	42.1
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)