

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: P320134

Luminaire Tested: **GLEON-SA0C-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0C-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48903 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

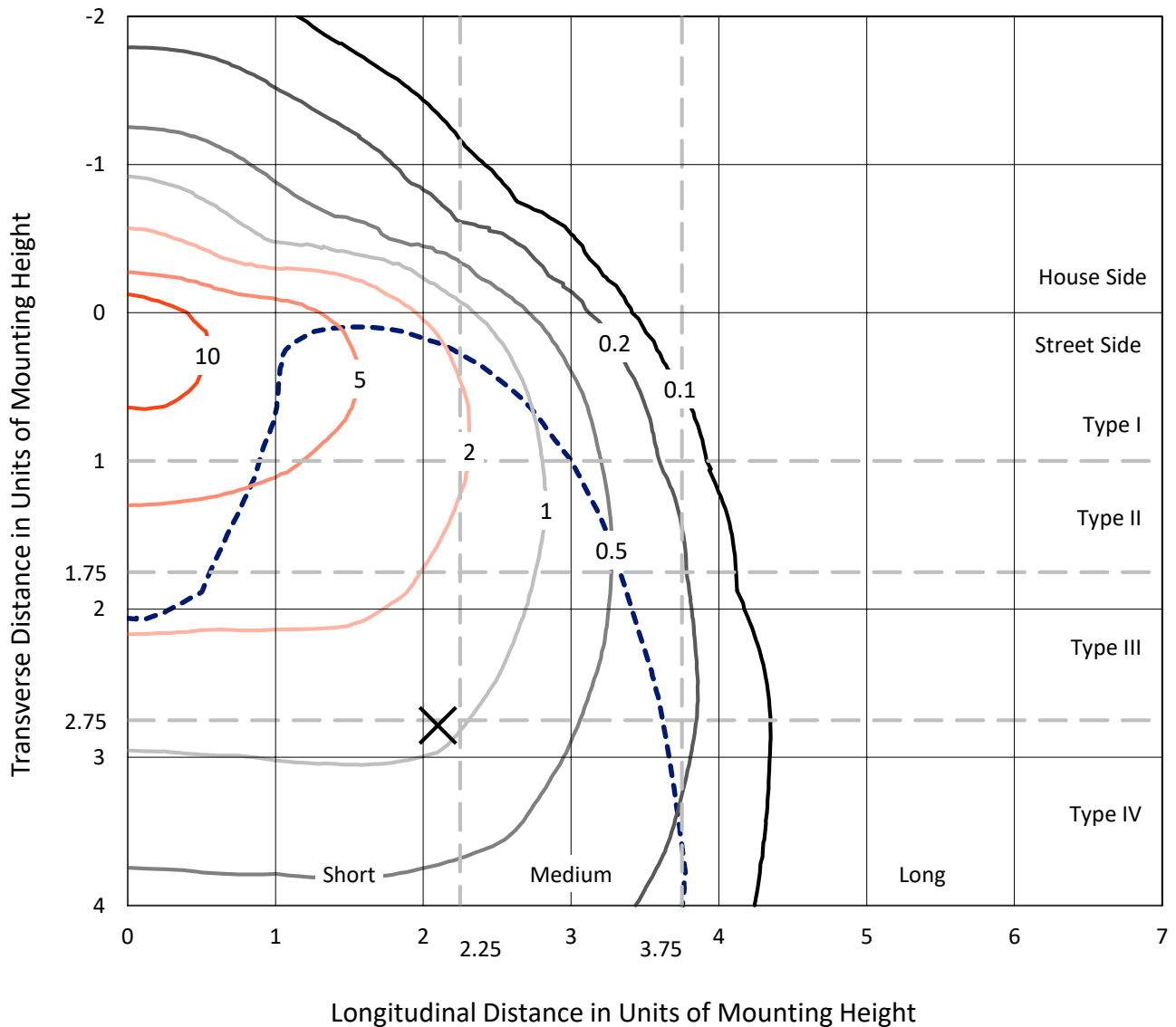
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320134
 CATALOG NUMBER: GLEON-SA0C-827-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

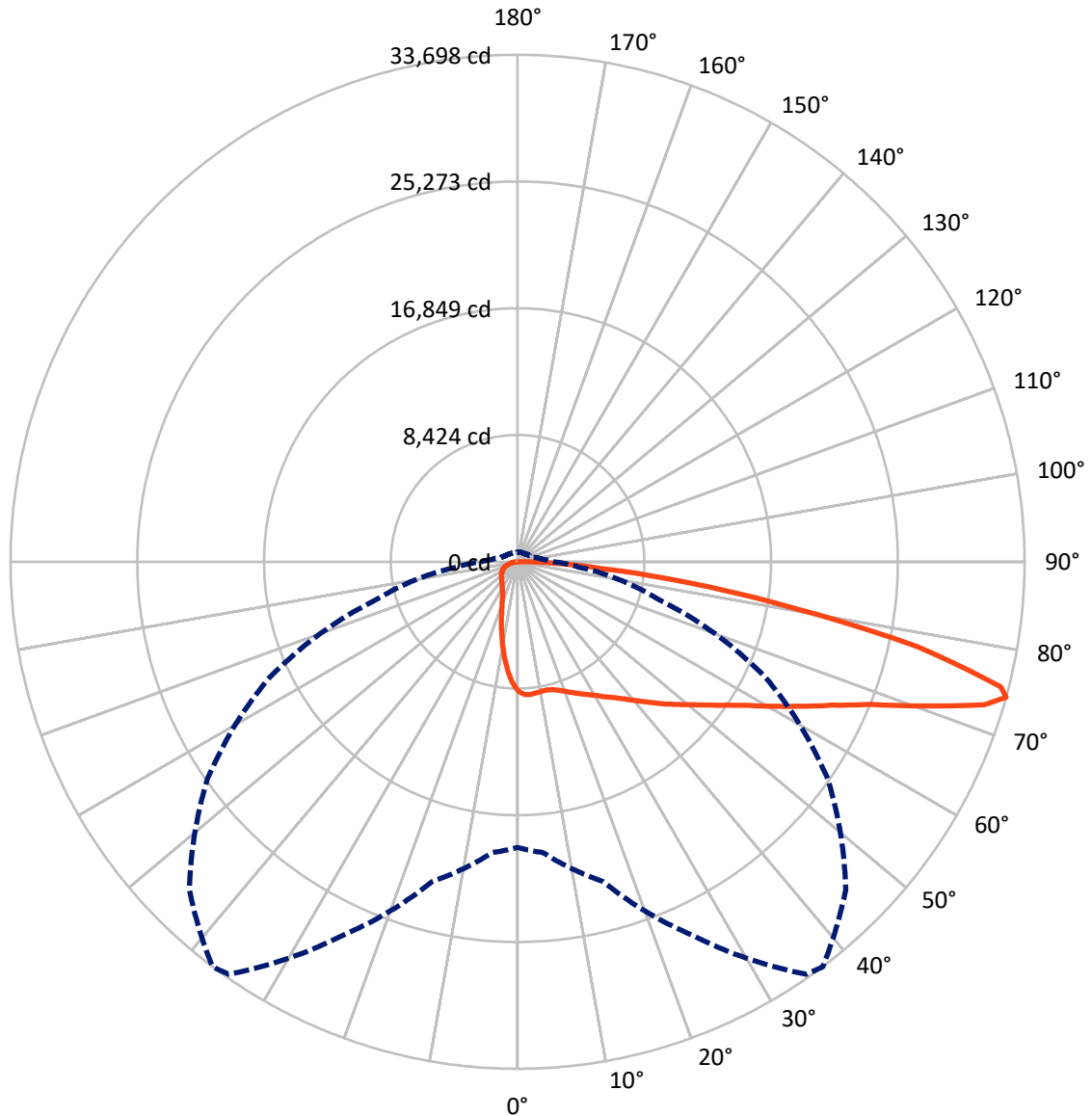
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type IV - Short - N/A

REPORT NUMBER: P320134
CATALOG NUMBER: GLEON-SA0C-827-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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 CATALOG NUMBER: GLEON-SA0C-827-U-SL4

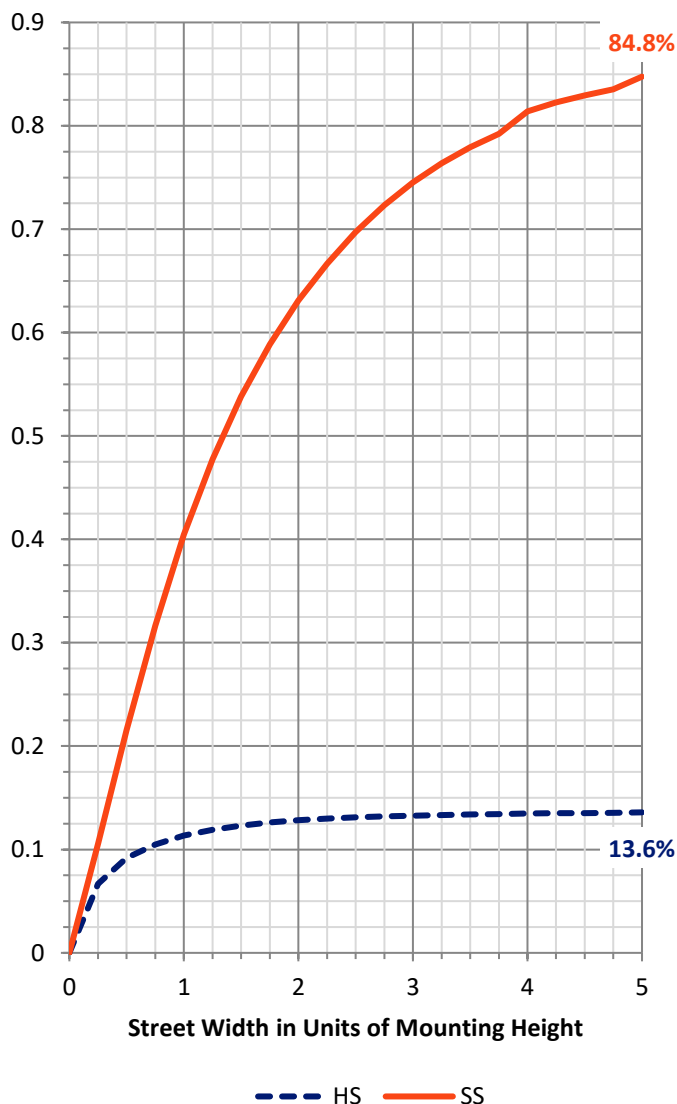
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6728.7	0.0	6728.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	42174.3	0.0	42174.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	48903.0	0.0	48903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.8	1.6
10°-20°	1945.0	4.0
20°-30°	2996.8	6.1
30°-40°	4357.8	8.9
40°-50°	6413.9	13.1
50°-60°	9007.2	18.4
60°-70°	11400.3	23.3
70°-80°	10038.4	20.5
80°-90°	1984.8	4.1
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°	48903.0	100.0
0°-180°	48903.0	100.0

Coefficient of Utilization



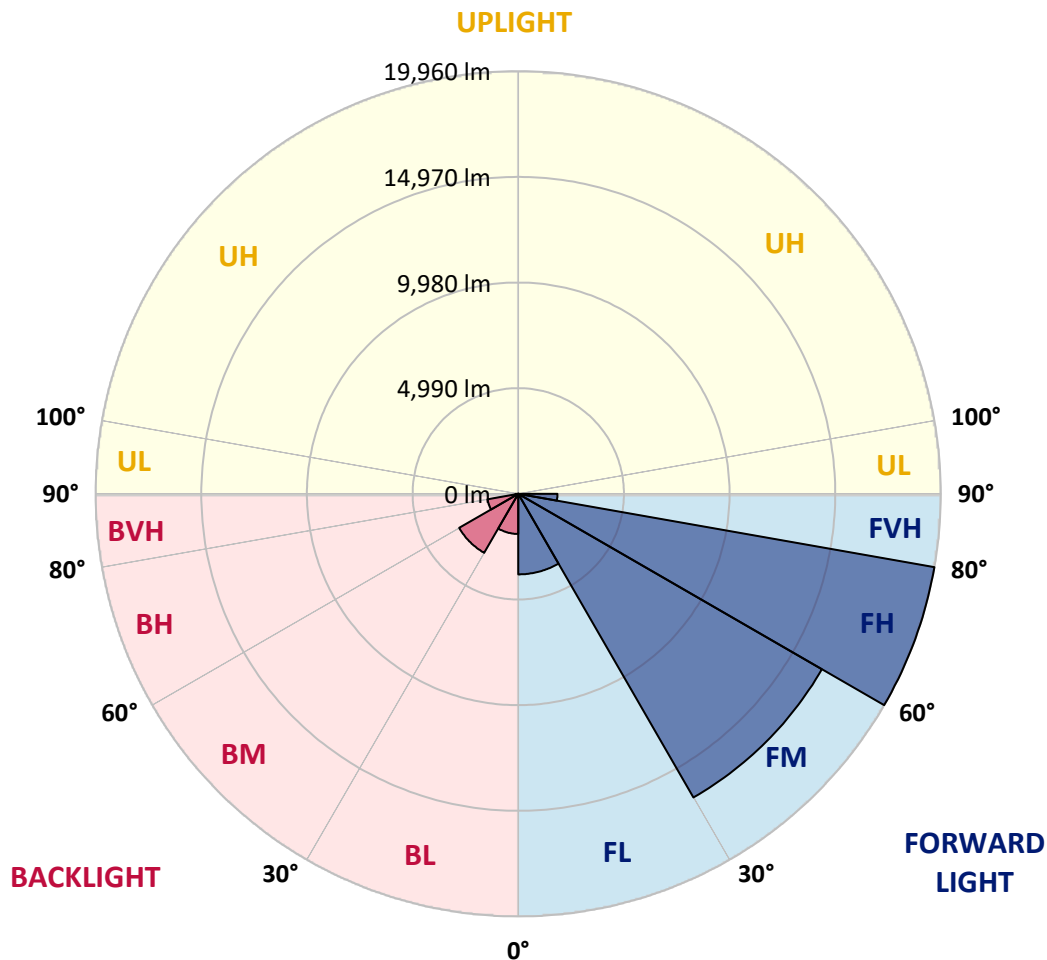
REPORT NUMBER: P320134
 CATALOG NUMBER: GLEON-SA0C-827-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3805.2	7.8			
FM (30°-60°)	16558.9	33.9			
FH (60°-80°)	19959.7	40.8			G5
FVH (80°-90°)	1850.4	3.8			G5
BL (0°-30°)	1895.3	3.9	B3/2500		
BM (30°-60°)	3219.9	6.6	B3/5000		
BH (60°-80°)	1479.0	3.0	B3/2500		G3/2500
BVH (80°-90°)	134.4	0.3			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 IV Short





REPORT NUMBER: P320134
 CATALOG NUMBER: GLEON-SA0C-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	8616.5	8616.5	8616.5	8616.5	8616.5	8616.5	8616.5	8616.5	8616.5	8616.5	8616.5
2.5°	8911.1	8912.8	8911.1	8897.3	8864.6	8837.0	8814.6	8781.9	8709.5	8654.4	8571.7
5°	8995.5	8985.2	8978.3	8952.4	8900.8	8869.7	8826.7	8764.7	8645.8	8535.6	8401.2
7.5°	8955.9	8943.8	8928.3	8897.3	8838.7	8812.9	8752.6	8671.6	8528.7	8384.0	8191.0
10°	8833.6	8830.1	8823.2	8816.3	8766.4	8745.7	8690.6	8604.5	8463.2	8287.5	8061.8
12.5°	8697.5	8706.1	8733.7	8769.8	8747.4	8737.1	8702.6	8644.1	8499.4	8309.9	8037.7
15°	8611.4	8635.5	8709.5	8804.3	8823.2	8819.8	8811.2	8773.3	8620.0	8409.8	8092.8
17.5°	8582.1	8621.7	8762.9	8919.7	8974.8	8986.9	8990.3	8924.9	8754.3	8532.1	8149.7
20°	8635.5	8685.4	8892.1	9107.5	9195.3	9202.2	9186.7	9073.0	8881.8	8637.2	8180.7
22.5°	8797.4	8842.2	9100.6	9343.5	9443.4	9453.7	9407.2	9234.9	9016.2	8761.2	8223.8
25°	9109.2	9164.3	9422.7	9665.6	9717.3	9719.0	9651.8	9438.2	9191.9	8935.2	8316.8
27.5°	9515.7	9570.8	9803.4	10041.1	10013.6	9998.1	9906.8	9693.2	9421.0	9174.6	8482.2
30°	9968.8	10029.1	10249.6	10418.4	10352.9	10321.9	10247.8	9972.2	9739.7	9501.9	8735.4
32.5°	10437.3	10492.4	10685.4	10800.8	10718.1	10704.3	10592.4	10340.9	10154.8	10001.5	9145.4
35°	10917.9	10957.6	11147.0	11212.5	11102.3	11098.8	11067.8	10837.0	10719.8	10792.2	9741.4
37.5°	11408.9	11419.2	11581.1	11584.6	11551.9	11565.6	11598.4	11453.7	11486.4	11712.1	10516.6
40°	11846.4	11874.0	11991.1	12027.3	12084.1	12132.4	12296.0	12201.3	12454.5	12854.2	11481.2
42.5°	12170.3	12223.7	12411.4	12504.5	12688.8	12764.6	12995.4	13083.3	13593.2	14192.6	12628.5
45°	12444.2	12526.9	12828.3	13019.5	13331.3	13464.0	13794.7	14089.3	14879.9	15644.8	13836.0
47.5°	12740.5	12845.5	13222.8	13588.0	14011.7	14161.6	14762.8	15203.8	16252.9	17105.6	14974.7
50°	13176.3	13257.2	13625.9	14199.5	14728.4	14921.3	15753.3	16385.5	17648.2	18497.4	15961.7
52.5°	13784.4	13753.4	14065.1	14869.6	15579.3	15817.0	16811.0	17643.0	19062.5	19756.7	16795.5
55°	14395.9	14344.2	14563.0	15570.7	16571.6	16821.3	17975.5	18905.7	20407.8	20890.1	17434.6
57.5°	15076.3	14978.1	15162.5	16361.4	17701.6	17999.6	19279.5	20247.6	21730.8	21806.6	17841.1
60°	15777.4	15644.8	15851.5	17341.6	19136.5	19487.9	20805.7	21556.8	22978.0	22540.4	17972.0
62.5°	16390.7	16297.7	16616.3	18435.4	20754.1	21139.9	22304.4	22948.7	24207.9	22845.3	17500.0
65°	16926.4	16941.9	17493.2	19665.4	22557.6	22969.3	24023.6	24664.4	25176.0	22664.4	16395.8
67.5°	17565.5	17653.4	18593.9	21284.6	24828.0	25279.4	26524.8	26535.2	25716.9	21603.3	14221.9
70°	18497.4	18678.3	20108.1	23530.9	28056.2	28676.4	29637.6	27634.2	24957.2	18726.5	11190.1
72.5°	19324.3	19661.9	21718.7	26101.1	31990.7	32461.0	31458.4	27000.3	21782.5	14034.1	6971.4
74°	18988.4	19407.0	22011.6	27367.2	33472.1	33697.8	30843.4	25150.2	18161.5	9719.0	4051.6
75°	18264.9	18719.7	21584.4	27355.1	33284.4	33158.6	29358.5	23036.5	14957.5	6628.6	2695.9
77.5°	14740.4	15221.0	18187.4	23444.8	27291.4	27172.5	22552.5	15453.6	6551.1	2173.9	1369.5
80°	8570.0	8936.9	11290.0	14888.6	18402.7	18618.0	14831.7	7646.7	2577.0	1221.3	928.5
82.5°	3807.0	4060.2	5453.8	7600.2	11105.7	11383.0	7767.3	4006.8	1591.7	742.4	558.1
85°	2497.8	2685.6	3310.9	3619.2	5288.4	5477.9	3801.8	3119.7	1050.8	408.3	410.0
87.5°	1796.7	1977.6	2459.9	2148.1	2427.2	2298.0	2068.9	2887.1	422.0	232.6	137.8
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: P320134
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8616.5	8616.5	8616.5	8616.5	8616.5	8616.5	8616.5	8616.5	8616.5	8616.5	8616.5
2.5°	8535.6	8508.0	8446.0	8328.8	8263.4	8208.3	8117.0	8063.6	8039.4	8037.7	8048.1
5°	8323.7	8259.9	8099.7	7903.4	7746.6	7603.6	7426.2	7319.4	7243.6	7198.8	7210.9
7.5°	8077.3	7977.4	7725.9	7412.4	7160.9	6883.6	6609.7	6446.0	6318.6	6223.8	6241.0
10°	7908.5	7770.7	7403.8	6952.5	6533.9	6130.8	5753.5	5527.9	5348.7	5210.9	5221.2
12.5°	7851.7	7665.6	7157.5	6554.5	5967.1	5415.9	4923.2	4577.0	4392.7	4235.9	4248.0
15°	7860.3	7610.5	6950.8	6196.2	5457.2	4763.0	4165.3	3760.5	3510.7	3402.2	3403.9
17.5°	7867.2	7546.8	6733.7	5812.1	4952.5	4153.2	3503.8	3093.8	2857.8	2757.9	2759.6
20°	7844.8	7443.4	6465.0	5371.1	4425.4	3593.4	2964.6	2616.7	2437.5	2360.0	2360.0
22.5°	7815.5	7321.1	6161.8	4928.4	3905.2	3107.6	2578.8	2313.5	2210.1	2158.4	2156.7
25°	7829.3	7229.8	5851.7	4473.6	3426.3	2720.0	2322.1	2146.4	2077.5	2044.7	2043.0
27.5°	7903.4	7186.7	5565.8	4020.6	3007.7	2428.9	2149.8	2025.8	1981.0	1960.3	1960.3
30°	8037.7	7186.7	5267.8	3634.7	2659.7	2213.6	2017.2	1932.8	1901.8	1888.0	1888.0
32.5°	8272.0	7226.4	4980.1	3252.3	2382.4	2044.7	1906.9	1850.1	1826.0	1819.1	1819.1
35°	8675.1	7360.7	4699.3	2890.5	2158.4	1906.9	1801.9	1769.1	1751.9	1750.2	1755.3
37.5°	9241.8	7634.6	4435.7	2623.5	2000.0	1795.0	1714.0	1688.2	1677.8	1686.4	1693.3
40°	9955.0	8006.7	4196.3	2382.4	1879.4	1705.4	1633.0	1615.8	1610.6	1622.7	1633.0
42.5°	10816.3	8509.7	3999.9	2208.4	1786.4	1629.6	1564.1	1543.5	1538.3	1552.1	1565.9
45°	11748.2	9050.6	3862.1	2079.2	1714.0	1572.7	1503.8	1481.4	1471.1	1478.0	1493.5
47.5°	12595.8	9562.2	3807.0	1987.9	1645.1	1524.5	1450.4	1422.9	1405.7	1402.2	1414.3
50°	13310.6	9942.9	3832.8	1932.8	1590.0	1471.1	1398.8	1367.8	1341.9	1326.4	1335.0
52.5°	13830.9	10182.4	3856.9	1908.7	1546.9	1412.5	1341.9	1312.6	1278.2	1252.3	1252.3
55°	14208.1	10237.5	3803.5	1889.7	1514.2	1348.8	1278.2	1250.6	1216.2	1186.9	1183.4
57.5°	14356.3	10082.5	3605.4	1862.1	1491.8	1288.5	1211.0	1190.3	1161.0	1126.6	1124.9
60°	14156.4	9603.6	3223.0	1803.6	1462.5	1238.6	1143.8	1130.0	1116.3	1083.5	1081.8
62.5°	13353.7	8552.8	2728.6	1684.7	1403.9	1185.2	1081.8	1088.7	1090.4	1068.0	1064.6
65°	11898.1	7109.2	2246.3	1529.7	1316.1	1121.4	1018.1	1050.8	1069.7	1066.3	1061.1
67.5°	9782.7	5533.0	1903.5	1366.0	1200.7	1033.6	949.2	987.1	1002.6	1014.6	1011.2
70°	7260.8	3901.7	1574.5	1193.8	1061.1	930.2	859.6	878.5	868.2	882.0	887.1
72.5°	4048.1	2341.0	1283.3	1021.5	916.4	809.6	759.7	756.2	733.8	733.8	733.8
74°	2428.9	1717.4	1128.3	914.7	828.6	730.4	687.3	671.8	651.1	652.9	651.1
75°	1953.4	1476.3	1035.3	844.1	766.6	683.9	640.8	620.1	604.6	604.6	602.9
77.5°	1233.4	1121.4	833.7	671.8	613.3	563.3	534.0	506.4	506.4	504.7	503.0
80°	931.9	892.3	649.4	508.2	470.3	432.4	413.4	401.4	401.4	406.5	404.8
82.5°	639.1	671.8	456.5	354.9	335.9	308.3	304.9	306.6	301.5	294.6	292.8
85°	466.8	504.7	308.3	223.9	205.0	187.8	201.5	208.4	199.8	184.3	177.4
87.5°	179.2	330.7	165.4	93.0	86.1	74.1	86.1	89.6	96.5	75.8	77.5
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)