

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: P943814

Luminaire Tested: **GALN-SB8C-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8C-722-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36530 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 399.8
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



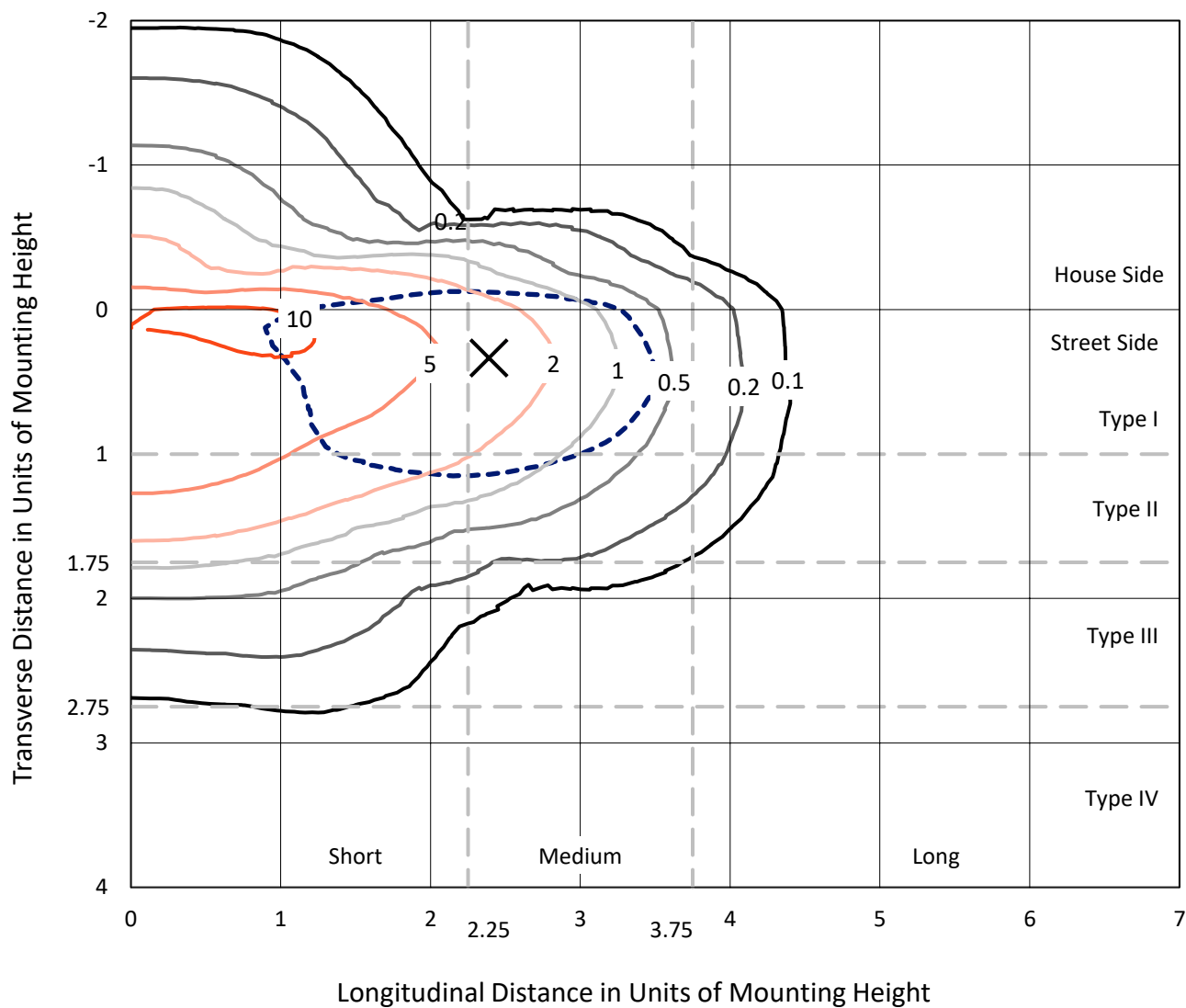
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

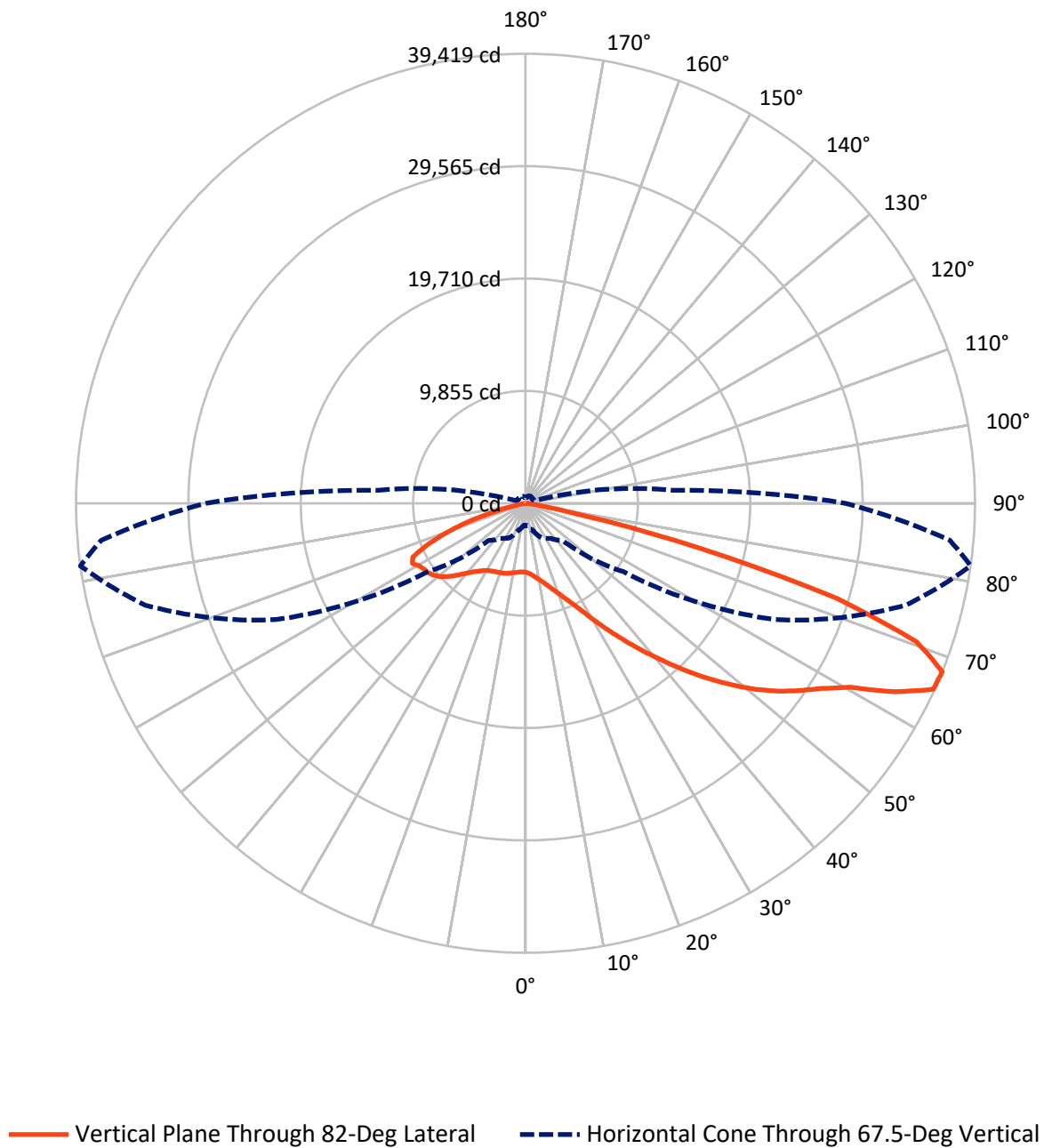


Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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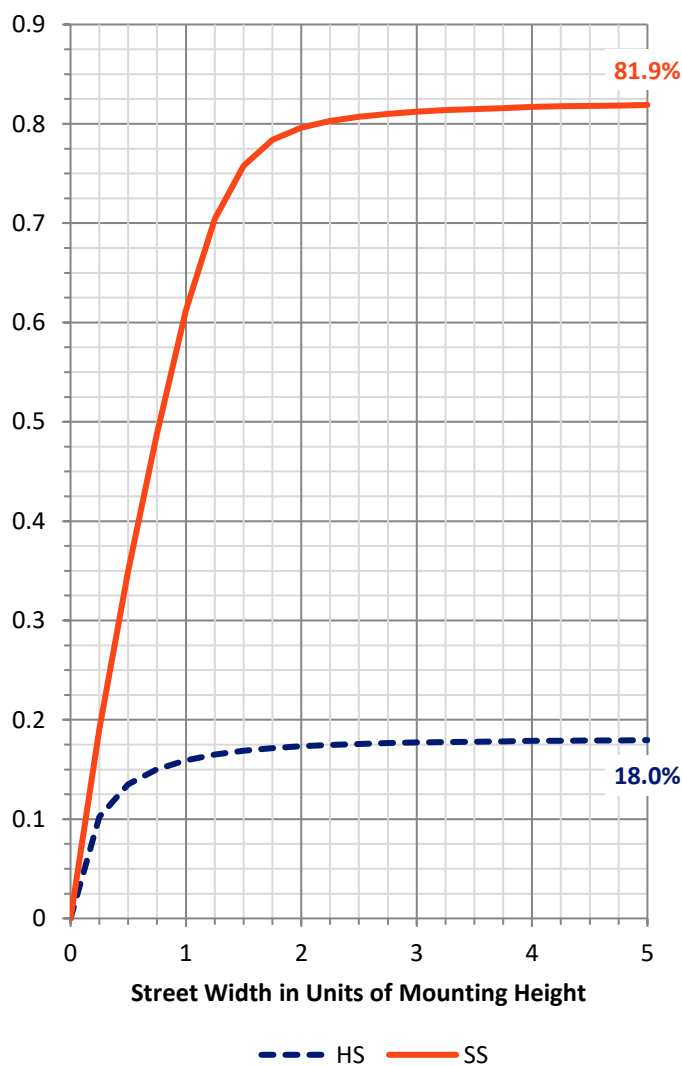
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6617.1	0.0	6617.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	29912.9	0.0	29912.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	36530.0	0.0	36530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.2	1.5
10°-20°	1401.1	3.8
20°-30°	2244.1	6.1
30°-40°	3968.2	10.9
40°-50°	6952.7	19.0
50°-60°	9273.0	25.4
60°-70°	8632.7	23.6
70°-80°	3313.2	9.1
80°-90°	205.8	0.6
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°	36530.0	100.0
0°-180°	36530.0	100.0

Coefficient of Utilization



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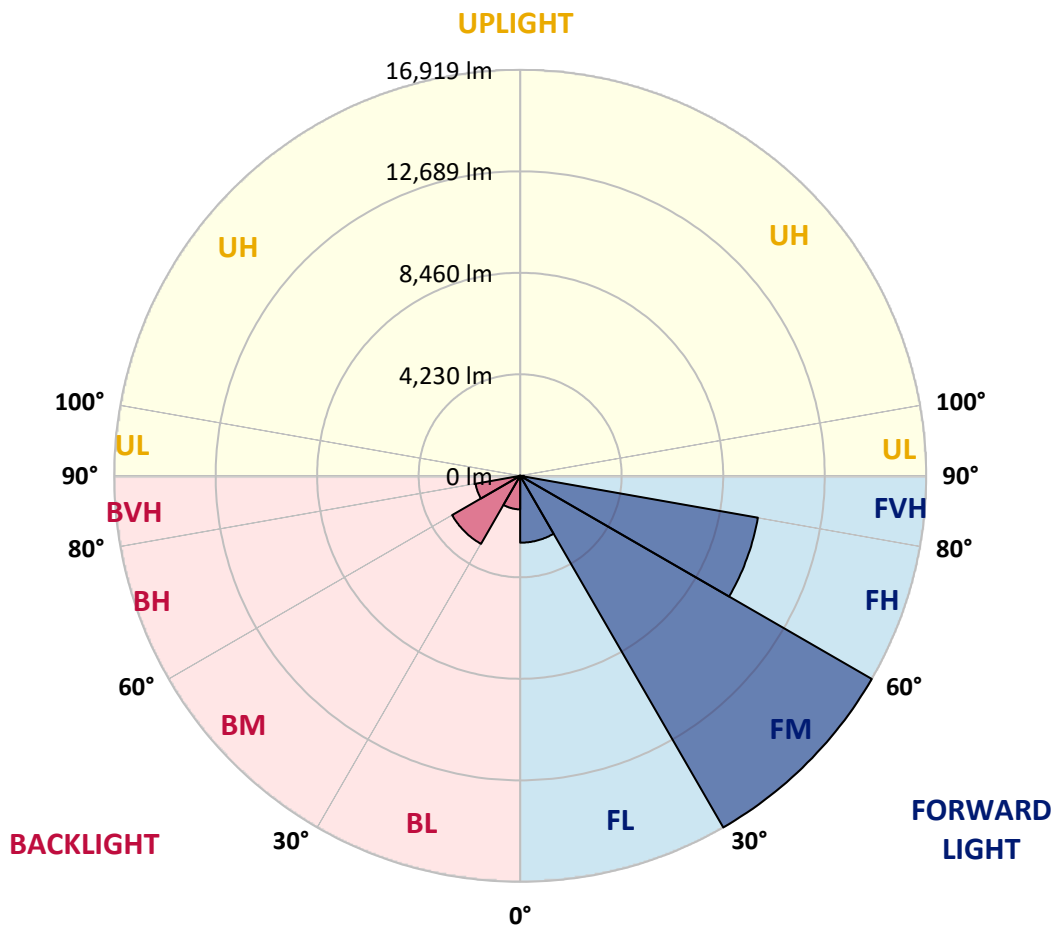
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2786.8	7.6			
FM	(30°-60°)	16919.2	46.3			
FH	(60°-80°)	10057.3	27.5			G4/12000
FVH	(80°-90°)	149.6	0.4			G2/225
BL	(0°-30°)	1397.5	3.8	B3/2500		
BM	(30°-60°)	3274.8	9.0	B3/5000		
BH	(60°-80°)	1888.6	5.2	B3/2500		G3/2500
BVH	(80°-90°)	56.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8
2.5°	6396.3	6433.1	6412.1	6401.6	6383.2	6356.9	6335.8	6270.1	6201.7	6157.0	6141.2
5°	6525.2	6562.0	6559.4	6569.9	6583.1	6590.9	6585.7	6512.0	6414.7	6338.5	6293.8
7.5°	6414.7	6456.8	6491.0	6543.6	6635.7	6733.0	6780.3	6764.5	6664.6	6559.4	6504.2
10°	6101.8	6146.5	6228.0	6351.6	6546.2	6756.6	6932.9	7014.4	6951.3	6835.5	6759.3
12.5°	5528.4	5573.1	5733.5	6001.8	6327.9	6693.5	7030.2	7248.5	7264.2	7148.5	7059.1
15°	4884.0	4928.7	5099.7	5436.3	5933.4	6519.9	7082.8	7495.7	7635.1	7535.1	7427.3
17.5°	4484.3	4523.7	4652.6	4923.5	5441.6	6172.8	7064.4	7758.7	8076.9	7998.0	7869.2
20°	4363.3	4397.5	4458.0	4647.3	5078.7	5812.4	6943.4	8005.9	8553.0	8508.3	8363.6
22.5°	4492.2	4523.7	4542.1	4626.3	4897.2	5575.7	6790.8	8258.4	9105.3	9110.6	8934.3
25°	4789.4	4820.9	4799.9	4852.5	4970.8	5502.1	6733.0	8555.6	9799.6	9857.5	9657.6
27.5°	5278.5	5281.2	5231.2	5228.6	5247.0	5612.6	6793.5	8873.8	10675.4	10783.3	10536.0
30°	6259.6	6220.1	6028.1	5820.3	5725.7	5944.0	6961.8	9249.9	11709.1	11901.1	11590.7
32.5°	7771.8	7714.0	7361.6	6864.5	6364.8	6477.9	7264.2	9678.6	12834.7	13181.9	12803.2
35°	9413.0	9397.2	9029.0	8290.0	7416.8	7237.9	7756.1	10241.5	14063.0	14615.3	14165.5
37.5°	10938.4	10930.6	10720.2	9849.6	8787.1	8297.9	8545.1	10977.9	15378.0	16177.5	15646.3
40°	12332.4	12356.1	12145.7	11367.2	10296.7	9657.6	9618.2	11887.9	16840.3	17879.2	17248.0
42.5°	13537.0	13563.3	13350.2	12774.2	11788.0	11162.0	10935.8	13003.1	18268.4	19707.1	18960.2
45°	14354.9	14518.0	14486.4	14026.1	13318.7	12669.0	12519.1	14402.2	19896.5	21645.5	20769.6
47.5°	14586.4	14736.3	14973.0	15036.1	14604.8	13965.7	14144.5	16088.1	21542.9	23586.4	22589.6
50°	14015.6	14155.0	14646.8	15301.7	15601.6	15404.3	15725.2	17895.0	23228.8	25522.2	24375.5
52.5°	12890.0	13032.0	13652.7	14688.9	15911.9	16532.6	17311.1	19675.5	24862.0	27355.3	26066.6
55°	11261.9	11411.9	12208.8	13381.8	15320.1	16998.1	18634.0	21453.5	26358.5	29004.4	27592.0
57.5°	9047.4	9157.9	9986.4	11627.5	13831.5	16535.2	19609.8	23394.4	27768.3	30624.5	29104.3
60°	5896.6	5993.9	6956.5	8787.1	11364.5	14988.8	19804.4	25559.0	29640.9	32731.2	31142.6
62.5°	3921.4	3987.2	4557.9	5901.9	8003.3	12019.4	18665.6	27286.9	32386.6	36397.5	34638.0
65°	2690.6	2756.3	3327.0	4263.3	5170.7	7950.7	15391.2	27058.1	34874.7	39309.0	37228.6
67.5°	1919.9	1975.2	2459.1	3342.8	3742.6	4618.4	10433.5	24133.5	34517.0	39419.4	37368.0
70°	1375.5	1407.1	1806.9	2603.8	2974.6	2774.7	5801.9	18457.8	30222.1	36400.1	34522.3
72.5°	962.6	973.1	1254.5	1983.1	2396.0	2025.2	2761.6	12306.1	22857.9	28570.4	26763.6
75°	652.3	665.4	844.3	1454.4	1922.6	1546.5	1462.3	6598.8	13418.6	15814.6	14176.1
77.5°	399.8	405.0	544.4	994.2	1438.6	1178.3	941.6	2795.8	5191.8	5097.1	4344.9
80°	226.2	226.2	347.2	618.1	981.0	760.1	660.1	1188.8	1643.8	1443.9	1273.0
82.5°	126.2	128.9	252.5	384.0	649.6	449.7	362.9	549.7	710.1	628.6	547.1
85°	52.6	57.9	155.2	181.5	310.3	223.6	147.3	231.4	263.0	234.1	171.0
87.5°	5.3	7.9	47.3	34.2	36.8	44.7	21.0	44.7	36.8	36.8	26.3
90°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8
2.5°	6091.2	6051.8	5951.8	5836.1	5683.6	5609.9	5510.0	5441.6	5383.7	5389.0	5336.4
5°	6209.6	6109.6	5886.1	5607.3	5260.1	5012.9	4749.9	4568.4	4421.1	4389.6	4318.6
7.5°	6372.7	6214.8	5823.0	5320.6	4734.1	4289.6	3892.5	3637.4	3455.9	3398.0	3340.2
10°	6583.1	6354.2	5741.4	4960.3	4116.1	3550.6	3124.5	2924.6	2801.0	2758.9	2727.4
12.5°	6827.7	6514.7	5633.6	4521.1	3479.6	2935.2	2664.3	2564.3	2524.9	2511.7	2503.8
15°	7135.4	6714.6	5470.5	4000.3	2940.4	2559.1	2443.3	2430.2	2435.4	2430.2	2427.6
17.5°	7501.0	6932.9	5204.9	3463.8	2577.5	2367.1	2325.0	2335.5	2348.7	2346.0	2340.8
20°	7900.7	7148.5	4865.6	2987.8	2330.2	2230.3	2206.6	2217.1	2227.7	2222.4	2219.8
22.5°	8355.7	7380.0	4489.5	2616.9	2164.5	2104.1	2077.8	2080.4	2080.4	2069.9	2064.6
25°	8900.1	7635.1	4095.0	2353.9	2038.3	1991.0	1959.4	1948.9	1933.1	1901.5	1896.3
27.5°	9549.8	7906.0	3716.3	2169.8	1938.4	1893.6	1856.8	1830.5	1791.1	1738.5	1733.2
30°	10280.9	8234.7	3395.4	2054.1	1859.5	1814.7	1772.7	1733.2	1675.4	1609.6	1604.3
32.5°	11141.0	8587.2	3161.3	1977.8	1788.4	1741.1	1691.1	1643.8	1580.7	1514.9	1517.5
35°	12166.7	9013.2	3024.6	1925.2	1733.2	1670.1	1614.9	1562.3	1514.9	1457.1	1451.8
37.5°	13279.2	9465.6	2982.5	1898.9	1696.4	1599.1	1536.0	1499.1	1493.9	1459.7	1457.1
40°	14496.9	10002.1	3014.1	1883.1	1656.9	1530.7	1462.3	1454.4	1467.6	1407.1	1409.7
42.5°	15785.7	10638.6	3066.7	1864.7	1601.7	1462.3	1396.6	1396.6	1386.0	1301.9	1301.9
45°	17179.6	11372.4	3119.3	1820.0	1536.0	1393.9	1344.0	1325.6	1280.8	1199.3	1196.7
47.5°	18584.1	12119.3	3158.7	1738.5	1457.1	1336.1	1291.4	1249.3	1183.5	1109.9	1107.3
50°	19917.5	12790.0	3116.6	1617.5	1367.6	1280.8	1233.5	1175.6	1104.6	1054.7	1046.8
52.5°	21108.9	13371.3	2937.8	1475.5	1273.0	1223.0	1180.9	1120.4	1062.5	1009.9	1004.7
55°	22145.2	13842.0	2622.2	1341.3	1188.8	1173.0	1130.9	1054.7	975.8	931.0	925.8
57.5°	23139.3	14199.7	2227.7	1230.9	1112.5	1117.8	1054.7	986.3	912.6	865.3	860.0
60°	24462.3	14678.4	1827.9	1128.3	1031.0	1046.8	978.4	928.4	836.4	775.9	768.0
62.5°	26576.8	15422.7	1451.8	1002.1	936.3	941.6	912.6	852.1	741.7	670.7	665.4
65°	28254.8	15149.2	1144.1	865.3	828.5	836.4	836.4	770.6	652.3	570.7	562.8
67.5°	28065.4	12971.5	912.6	731.2	725.9	731.2	749.6	694.3	578.6	512.9	502.3
70°	25853.6	10317.8	731.2	607.5	631.2	618.1	670.7	633.8	520.8	455.0	447.1
72.5°	21095.8	7432.6	557.6	502.3	483.9	505.0	604.9	570.7	434.0	360.3	352.4
75°	12327.1	3966.1	415.6	397.1	349.8	420.8	536.5	486.6	331.4	265.6	257.7
77.5°	4013.5	1383.4	305.1	291.9	260.4	339.3	457.6	410.3	270.9	210.4	202.5
80°	1075.7	418.2	207.8	192.0	168.3	252.5	362.9	326.1	194.6	136.8	134.1
82.5°	431.3	176.2	121.0	107.8	92.1	173.6	286.7	263.0	144.7	86.8	86.8
85°	139.4	57.9	44.7	34.2	42.1	107.8	171.0	178.8	102.6	44.7	34.2
87.5°	18.4	7.9	7.9	10.5	7.9	18.4	52.6	50.0	28.9	5.3	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)