

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: P954471

Luminaire Tested: **GALN-SB7D-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50972 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 512.8
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

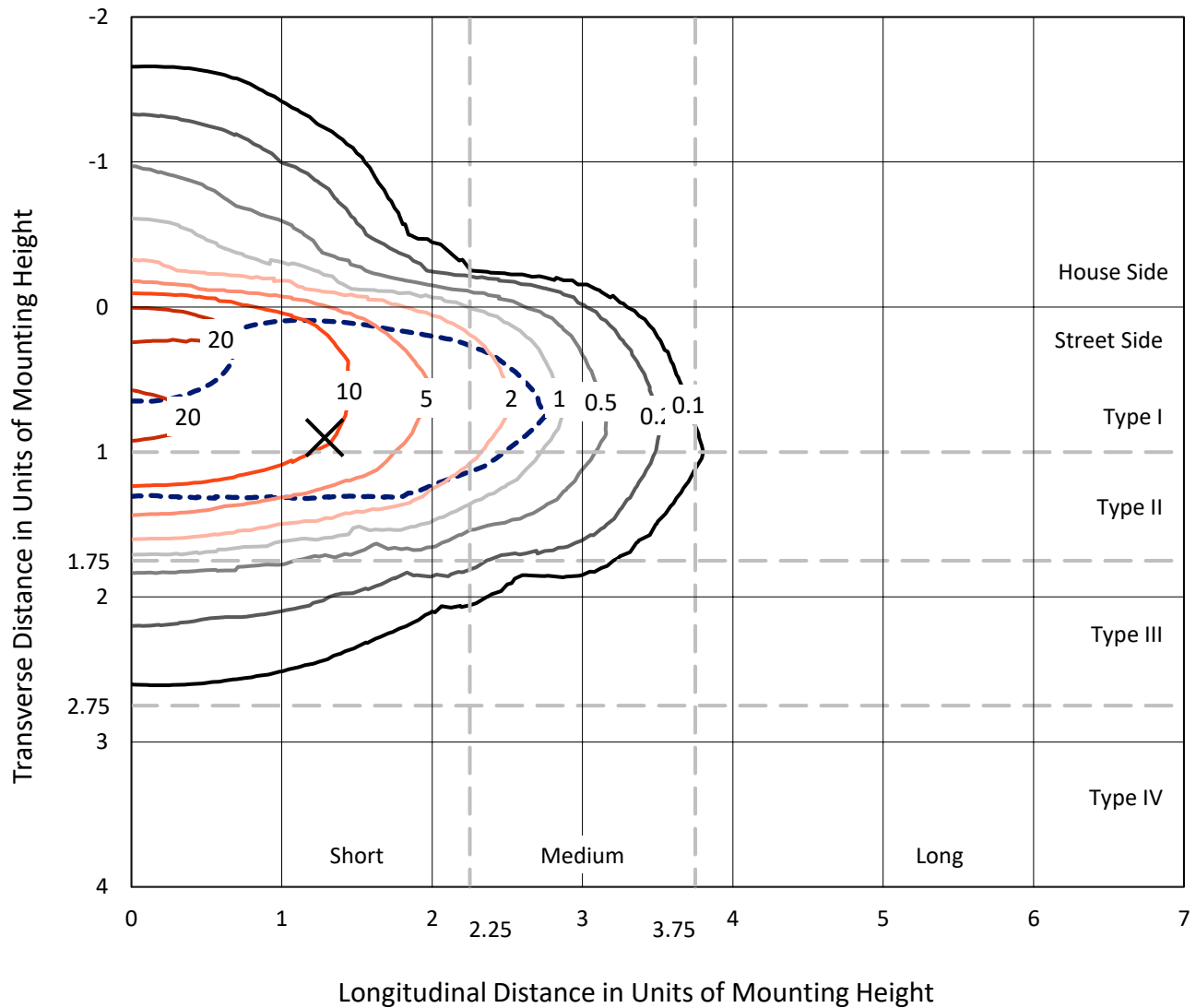


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Iso-Footcandle Lines of Horizontal Illumination

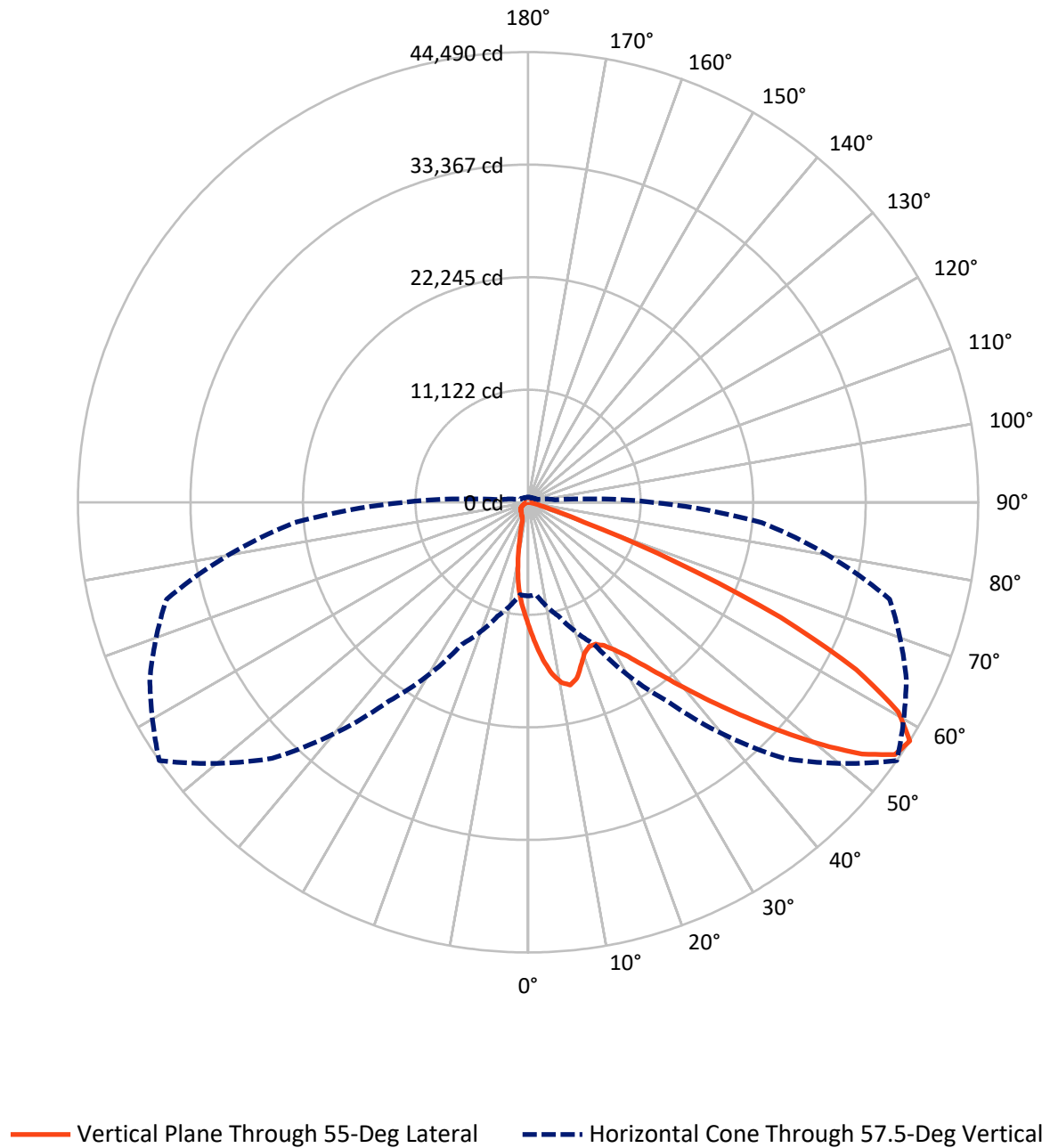
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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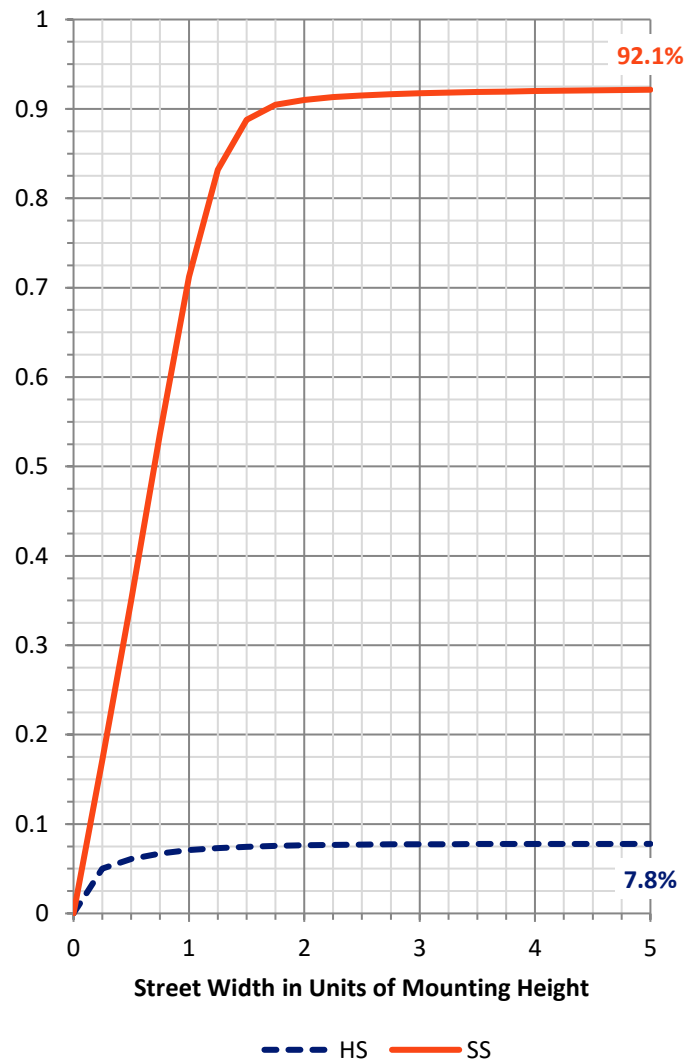
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3980.7	0.0	3980.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	46991.3	0.0	46991.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	50972.0	0.0	50972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1142.9	2.2
10°-20°	2760.6	5.4
20°-30°	4416.9	8.7
30°-40°	7475.9	14.7
40°-50°	12273.8	24.1
50°-60°	13489.8	26.5
60°-70°	7737.8	15.2
70°-80°	1581.1	3.1
80°-90°	93.3	0.2
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°	50972.0	100.0
0°-180°	50972.0	100.0

Coefficient of Utilization



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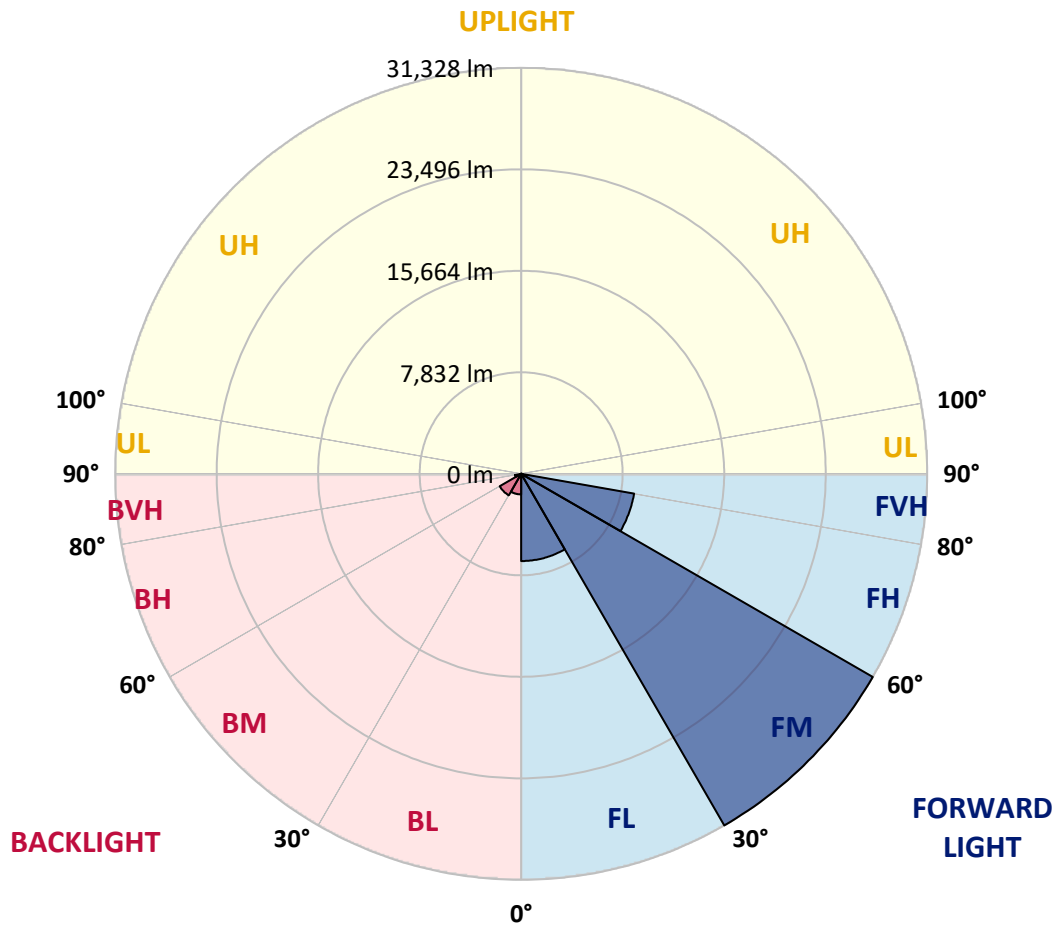
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6731.2	13.2			
FM	(30°-60°)	31327.8	61.5			
FH	(60°-80°)	8845.4	17.4			G4/12000
FVH	(80°-90°)	87.0	0.2			G1/100
BL	(0°-30°)	1589.2	3.1	B3/2500		
BM	(30°-60°)	1911.8	3.8	B2/2500		
BH	(60°-80°)	473.4	0.9	B1/500		G1/500
BVH	(80°-90°)	6.3	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12283.0	12283.0	12283.0	12283.0	12283.0	12283.0	12283.0	12283.0	12283.0	12283.0	12283.0
2.5°	15240.6	15048.9	15020.6	14982.9	14618.3	14344.8	13948.8	13515.1	13027.9	12531.3	12311.3
5°	17607.3	17456.4	17428.2	17252.1	16837.3	16372.1	15668.0	14778.6	13870.2	12801.6	12342.7
7.5°	18066.2	18037.9	18166.8	18160.5	18103.9	17736.2	17142.1	16082.9	14718.9	13134.8	12424.4
10°	16020.1	16092.4	16475.8	16812.1	17720.5	18248.5	18119.6	17245.9	15592.6	13515.1	12515.6
12.5°	14156.2	14071.4	14344.8	14725.1	15781.2	17352.7	18525.1	18217.1	16592.1	13945.7	12650.7
15°	12987.0	12952.5	13106.5	13282.5	14087.1	15671.2	18053.6	19006.0	17553.9	14454.8	12855.0
17.5°	12613.0	12584.7	12631.9	12675.9	13197.6	14423.4	16931.6	19490.0	18474.8	15036.3	13081.3
20°	12917.9	12880.2	12873.9	12839.3	13056.2	13892.2	15916.3	19524.6	19301.4	15564.3	13276.2
22.5°	13807.4	13763.4	13609.4	13471.1	13489.9	13964.5	15463.8	19178.8	19923.7	16057.8	13398.8
25°	15419.7	15347.5	15026.9	14561.7	14266.3	14467.4	15532.9	18723.1	20517.8	16444.4	13339.1
27.5°	17437.6	17343.3	16931.6	16240.1	15564.3	15319.2	16032.6	18408.8	21011.2	16739.8	13210.2
30°	19414.6	19292.0	18886.5	18349.1	17362.1	16589.0	16934.7	18547.1	21599.0	17047.8	13040.5
32.5°	21548.7	21432.4	20894.9	20228.6	19411.4	18371.1	18169.9	19222.8	22318.7	17478.4	12921.0
35°	24248.5	24066.2	23302.5	22394.2	21526.7	20473.8	19842.0	20388.9	23277.3	18135.3	12987.0
37.5°	27322.4	27077.3	26253.8	24999.7	23868.2	22689.6	21878.7	21991.8	24682.3	19015.4	13191.3
40°	30220.3	29997.2	29236.5	28054.8	26634.1	25204.0	24339.7	24088.2	26621.5	20087.2	13549.6
42.5°	31958.4	31757.3	31436.7	30936.9	29739.4	28281.1	27190.4	26646.7	28916.0	21369.5	13986.5
45°	32055.9	31879.8	32310.4	32891.9	32656.2	31685.0	30355.5	29359.1	31219.8	22573.3	14439.1
47.5°	30496.9	30377.5	31685.0	33715.4	34727.4	35136.0	33910.2	31845.3	33121.3	23437.6	14624.6
50°	26247.5	26203.5	28894.0	32621.6	35516.3	38159.6	37659.9	34158.5	34595.4	23884.0	14448.5
52.5°	22758.7	22598.4	24166.8	29120.3	34369.1	39750.0	41324.7	36427.8	35626.3	23968.8	14036.8
55°	17261.6	17120.1	19087.7	23261.6	30669.8	39184.3	44005.7	38769.4	36365.0	23751.9	13298.2
57.5°	9259.4	9171.4	11657.5	15482.6	23975.1	35789.8	44489.7	41246.1	36987.3	23176.8	12264.1
60°	3605.1	3589.4	4519.7	7511.9	14571.1	29117.1	42047.6	42732.8	37377.0	22469.6	11399.8
62.5°	2181.3	2228.4	2379.3	3372.5	6436.9	18088.2	36418.4	41041.8	37637.9	21822.1	10686.3
65°	1804.1	1807.2	1826.1	2316.4	3083.3	7568.4	27416.7	35478.6	36993.6	20668.6	9674.3
67.5°	1546.4	1574.7	1647.0	1838.7	2175.0	3319.0	15784.3	27482.7	33074.2	17984.5	8096.5
70°	1219.5	1257.2	1348.4	1511.8	1678.4	2077.5	5833.5	18286.2	25266.9	13555.9	6122.6
72.5°	1027.8	1024.6	1071.8	1228.9	1332.6	1461.5	2244.1	10246.3	14684.3	6471.5	3029.9
75°	795.2	826.6	886.3	1027.8	1090.6	1059.2	1216.4	3743.4	5261.4	1961.3	1030.9
77.5°	622.3	647.5	700.9	839.2	902.1	751.2	700.9	1338.9	1691.0	704.0	465.2
80°	279.7	301.7	477.7	619.2	735.5	518.6	380.3	685.2	751.2	320.6	235.7
82.5°	50.3	84.9	279.7	326.9	377.2	336.3	198.0	355.2	367.7	128.9	81.7
85°	3.1	6.3	97.4	119.4	150.9	110.0	59.7	141.4	122.6	44.0	31.4
87.5°	0.0	0.0	0.0	3.1	3.1	15.7	18.9	25.1	18.9	15.7	12.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12283.0	12283.0	12283.0	12283.0	12283.0	12283.0	12283.0	12283.0	12283.0	12283.0
2.5°	12085.0	11638.7	11204.9	10849.8	10642.3	10290.3	10057.7	10020.0	9922.6	10007.4
5°	11852.4	11054.1	10246.3	9523.4	8929.4	8162.5	7590.4	7348.4	7137.8	7210.1
7.5°	11742.4	10482.0	9224.8	7989.6	6719.8	5494.0	4582.6	4202.2	3913.1	3953.9
10°	11594.7	9888.0	7917.3	6031.5	4331.1	3121.0	2492.4	2259.8	2131.0	2134.1
12.5°	11481.5	9177.7	6399.2	4089.1	2637.0	1992.7	1797.8	1741.2	1703.5	1706.7
15°	11424.9	8341.6	4900.0	2725.0	1885.8	1687.8	1640.7	1615.5	1590.4	1587.2
17.5°	11330.7	7411.3	3586.2	1989.5	1650.1	1580.9	1540.1	1511.8	1480.4	1474.1
20°	11189.2	6355.2	2621.3	1681.5	1546.4	1492.9	1436.4	1398.7	1360.9	1354.6
22.5°	10928.3	5239.4	2014.7	1555.8	1470.9	1411.2	1342.1	1298.1	1260.4	1254.1
25°	10444.3	4192.8	1697.2	1477.2	1404.9	1332.6	1257.2	1197.5	1162.9	1156.6
27.5°	9831.4	3293.9	1540.1	1404.9	1320.1	1254.1	1169.2	1112.6	1081.2	1074.9
30°	9108.5	2536.4	1448.9	1323.2	1219.5	1162.9	1087.5	1040.3	1021.5	1021.5
32.5°	8329.1	2027.3	1411.2	1241.5	1131.5	1068.6	1008.9	990.1	983.8	980.6
35°	7596.7	1760.1	1392.4	1175.5	1052.9	993.2	968.1	971.2	983.8	983.8
37.5°	6946.1	1675.2	1382.9	1128.4	983.8	930.3	946.1	974.3	961.8	961.8
40°	6358.4	1684.7	1376.7	1093.8	927.2	895.8	927.2	905.2	873.8	870.6
42.5°	5908.9	1763.2	1364.1	1065.5	892.6	870.6	858.0	823.5	820.3	826.6
45°	5582.0	1832.4	1360.9	1052.9	854.9	814.0	798.3	763.8	826.6	842.3
47.5°	5195.4	1832.4	1360.9	1008.9	792.0	776.3	751.2	713.5	776.3	792.0
50°	4695.7	1716.1	1307.5	958.6	741.8	732.3	688.3	641.2	628.6	638.0
52.5°	4063.9	1505.5	1172.4	889.5	691.5	672.6	619.2	584.6	575.2	575.2
55°	3344.2	1260.4	990.1	788.9	638.0	603.5	565.7	550.0	540.6	534.3
57.5°	2718.7	1034.1	795.2	700.9	587.7	543.7	531.2	512.3	496.6	487.2
60°	2231.6	814.0	656.9	622.3	537.5	496.6	493.5	468.3	427.5	421.2
62.5°	1722.4	597.2	553.2	540.6	487.2	452.6	446.3	396.0	333.2	320.6
65°	1216.4	465.2	446.3	474.6	433.7	402.3	386.6	311.2	245.2	235.7
67.5°	854.9	389.7	352.0	414.9	377.2	336.3	326.9	264.0	204.3	198.0
70°	609.7	317.4	289.2	355.2	301.7	295.4	276.6	220.0	166.6	160.3
72.5°	430.6	242.0	223.2	308.0	207.4	254.6	226.3	169.7	125.7	119.4
75°	317.4	172.9	157.2	179.2	150.9	191.7	160.3	113.1	78.6	75.4
77.5°	232.6	110.0	94.3	88.0	88.0	119.4	88.0	47.1	34.6	31.4
80°	163.4	50.3	44.0	37.7	34.6	28.3	12.6	6.3	3.1	3.1
82.5°	97.4	22.0	22.0	15.7	9.4	0.0	0.0	0.0	0.0	0.0
85°	22.0	9.4	9.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	3.1	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

(END OF REPORT)