

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: P955920

Luminaire Tested: **GALN-SB8D-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955920
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-SB8D-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 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: 65074 lumens
Efficiency: N/A
Efficacy: 111.3 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): 584.9
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



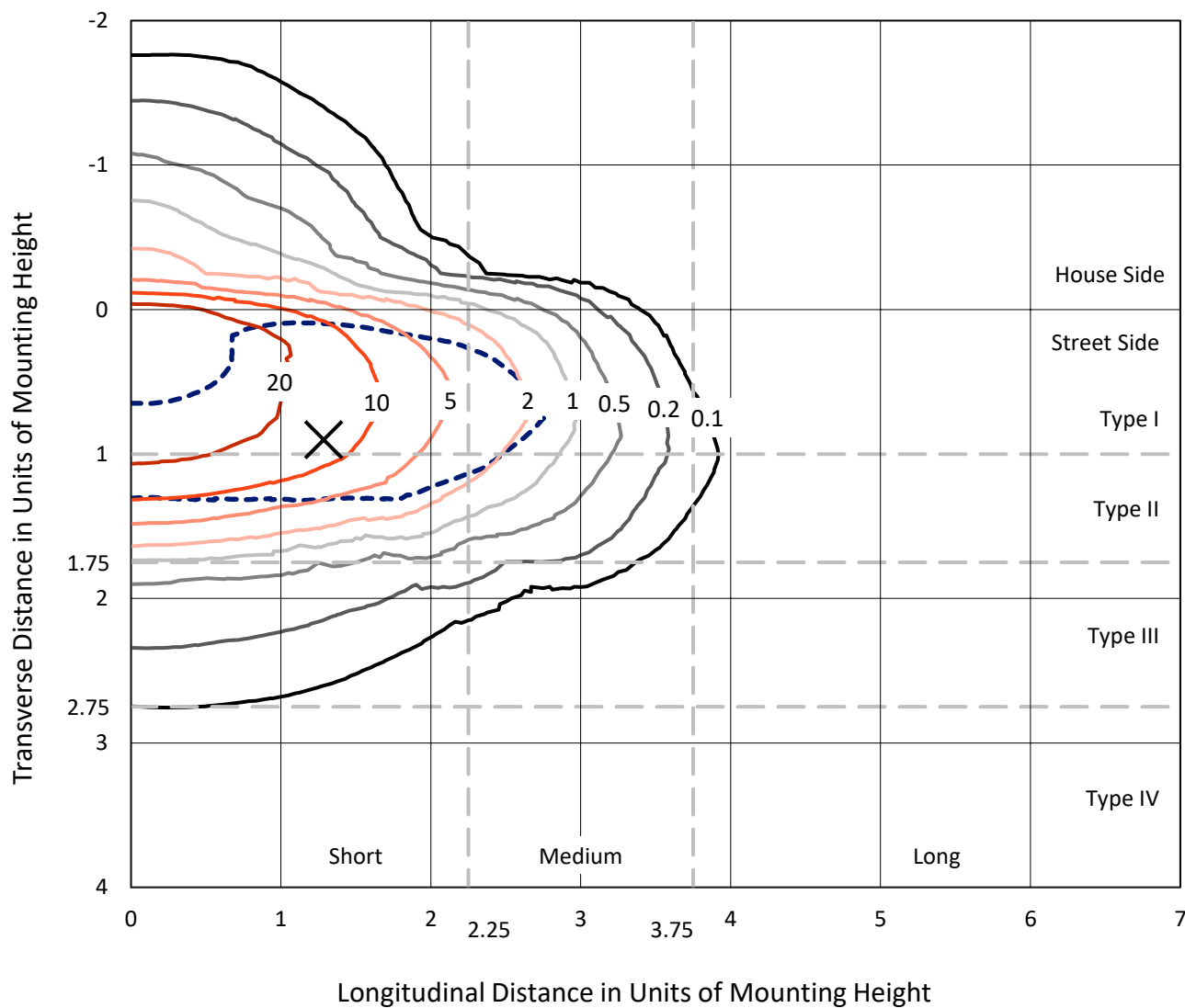
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Iso-Footcandle Lines of Horizontal Illumination

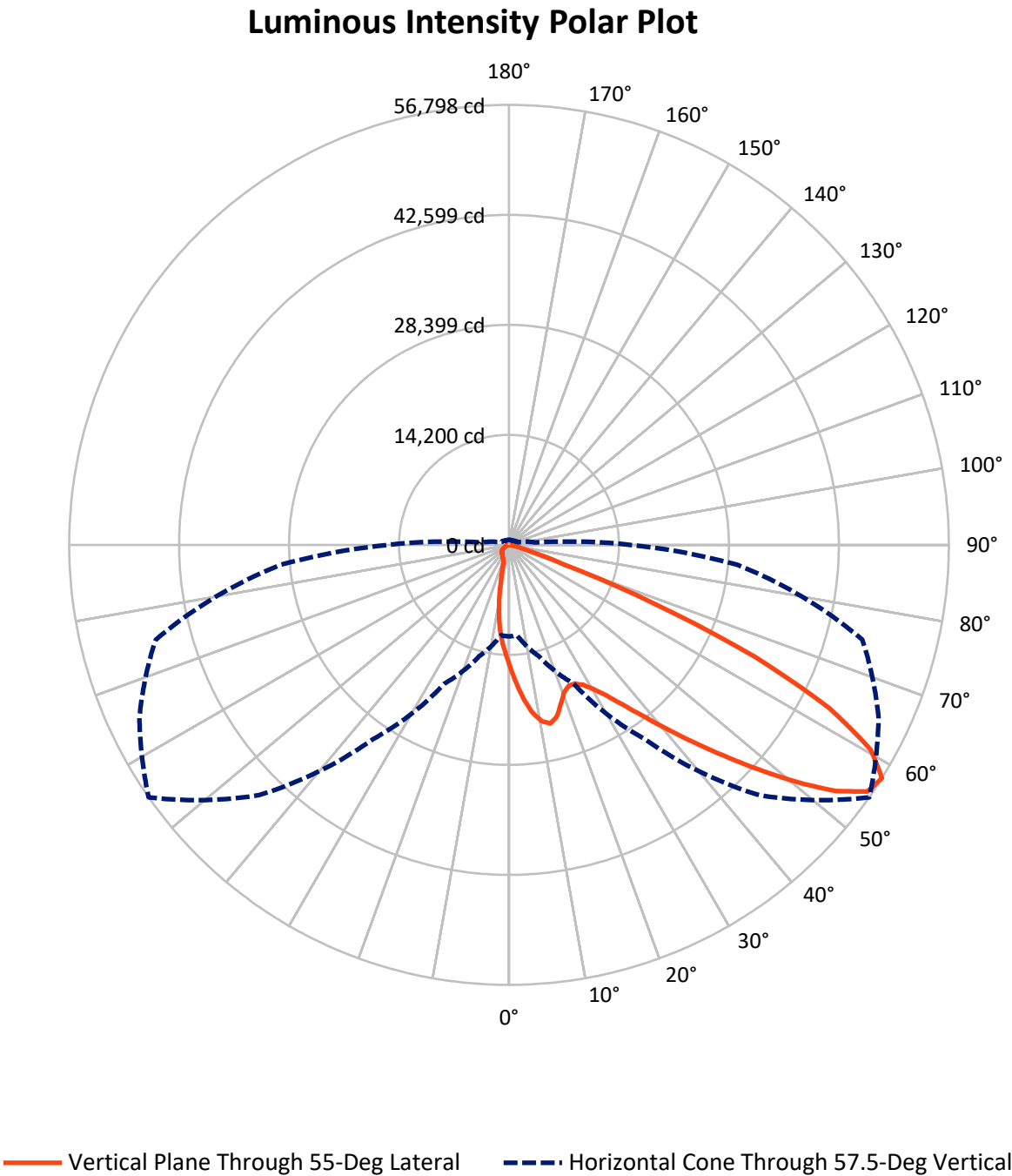
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 35.9 fc
Type II - Short - N/A

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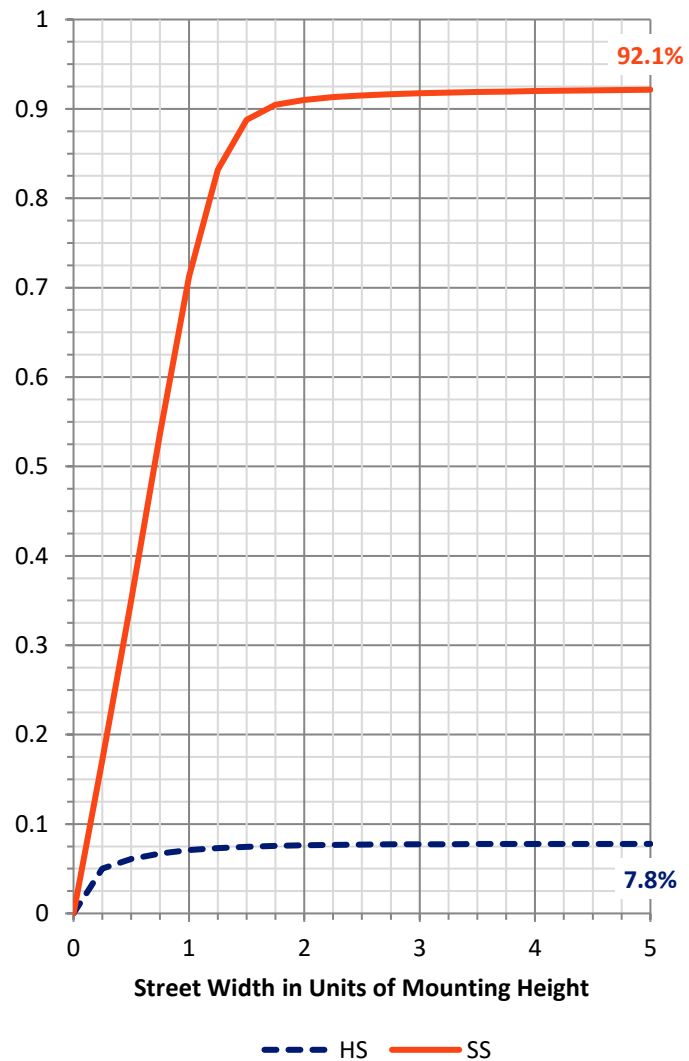
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5082.0	0.0	5082.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	59992.0	0.0	59992.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	65074.0	0.0	65074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1459.0	2.2
10°-20°	3524.3	5.4
20°-30°	5638.9	8.7
30°-40°	9544.2	14.7
40°-50°	15669.5	24.1
50°-60°	17221.9	26.5
60°-70°	9878.5	15.2
70°-80°	2018.5	3.1
80°-90°	119.1	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°	65074.0	100.0
0°-180°	65074.0	100.0

Coefficient of Utilization



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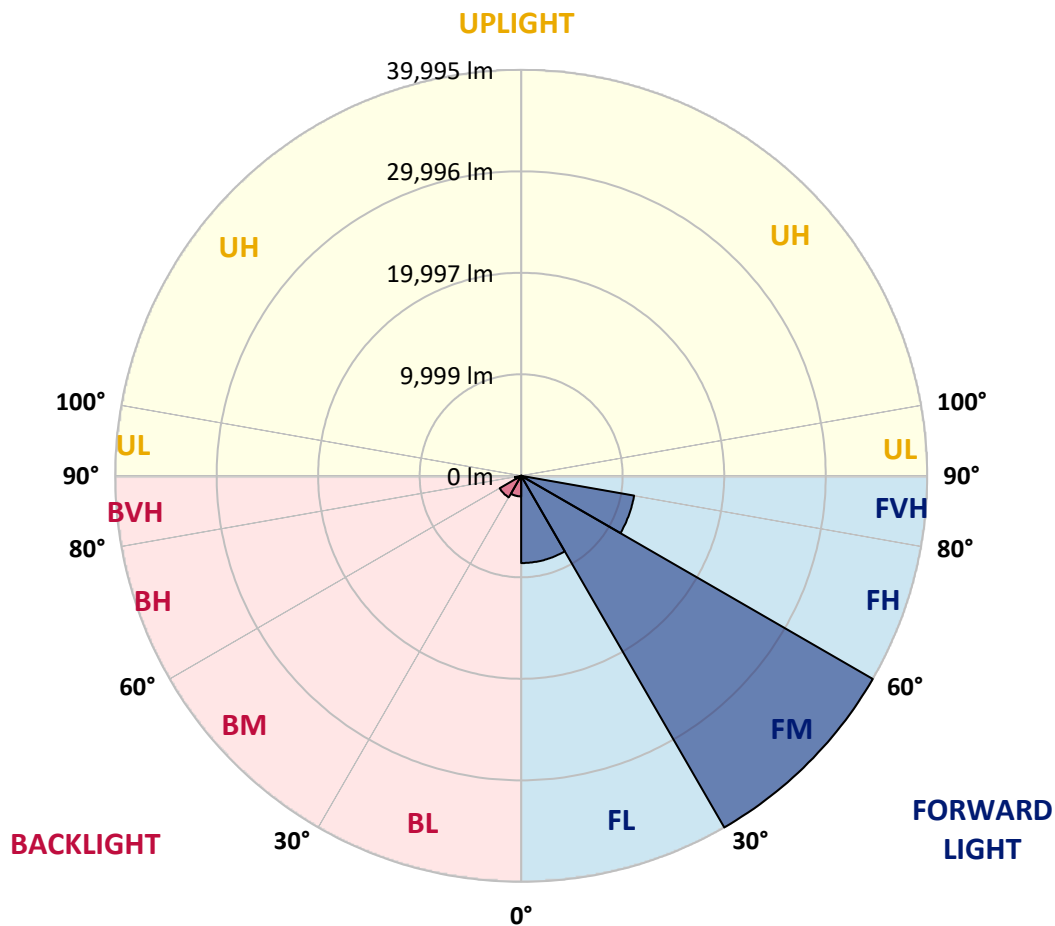
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8593.4	13.2			
FM	(30°-60°)	39995.0	61.5			
FH	(60°-80°)	11292.6	17.4			G4/12000
FVH	(80°-90°)	111.0	0.2			G2/225
BL	(0°-30°)	2028.9	3.1	B3/2500		
BM	(30°-60°)	2440.7	3.8	B2/2500		
BH	(60°-80°)	604.4	0.9	B2/1000		G2/1000
BVH	(80°-90°)	8.0	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°	15681.2	15681.2	15681.2	15681.2	15681.2	15681.2	15681.2	15681.2	15681.2	15681.2	15681.2
2.5°	19457.1	19212.3	19176.2	19128.1	18662.6	18313.5	17807.9	17254.2	16632.2	15998.2	15717.3
5°	22478.6	22286.0	22249.9	22025.1	21495.5	20901.6	20002.8	18867.2	17707.6	16343.3	15757.5
7.5°	23064.4	23028.3	23192.8	23184.8	23112.6	22643.1	21884.7	20532.5	18791.0	16768.6	15861.8
10°	20452.2	20544.5	21034.0	21463.4	22623.0	23297.1	23132.6	22017.1	19906.5	17254.2	15978.2
12.5°	18072.7	17964.4	18313.5	18799.0	20147.3	22153.5	23650.2	23257.0	21182.5	17803.9	16150.7
15°	16580.1	16535.9	16732.5	16957.2	17984.5	20006.8	23048.4	24264.2	22410.4	18453.9	16411.5
17.5°	16102.6	16066.4	16126.6	16182.8	16848.9	18413.8	21615.9	24882.1	23586.0	19196.3	16700.4
20°	16491.8	16443.6	16435.6	16391.5	16668.3	17735.7	20319.8	24926.3	24641.4	19870.4	16949.2
22.5°	17627.3	17571.2	17374.5	17198.0	17222.1	17828.0	19742.0	24484.9	25435.9	20500.4	17105.7
25°	19685.8	19593.5	19184.2	18590.4	18213.2	18470.0	19830.3	23903.0	26194.2	20993.9	17029.5
27.5°	22261.9	22141.5	21615.9	20733.1	19870.4	19557.4	20468.3	23501.8	26824.2	21371.1	16864.9
30°	24785.8	24629.3	24111.7	23425.5	22165.6	21178.5	21619.9	23678.3	27574.6	21764.3	16648.3
32.5°	27510.4	27361.9	26675.7	25825.1	24781.8	23453.6	23196.8	24541.0	28493.5	22314.1	16495.8
35°	30957.2	30724.5	29749.4	28589.8	27482.3	26138.1	25331.5	26029.7	29717.3	23152.7	16580.1
37.5°	34881.5	34568.5	33517.2	31916.2	30471.7	28966.9	27931.7	28076.1	31510.9	24276.2	16840.9
40°	38581.1	38296.2	37325.2	35816.4	34002.7	32177.0	31073.6	30752.5	33986.7	25644.5	17298.3
42.5°	40800.1	40543.3	40134.0	39496.0	37967.2	36105.4	34713.0	34018.8	36915.9	27281.6	17856.1
45°	40924.5	40699.8	41249.5	41991.8	41690.9	40451.0	38753.7	37481.7	39857.1	28818.5	18433.9
47.5°	38934.2	38781.8	40451.0	43043.1	44335.2	44856.8	43291.9	40655.6	42284.8	29921.9	18670.6
50°	33509.2	33453.0	36887.8	41646.7	45342.3	48716.9	48078.9	43608.9	44166.7	30491.7	18445.9
52.5°	29055.2	28850.6	30852.9	37176.7	43877.8	50747.3	52757.6	46506.0	45482.8	30600.1	17920.3
55°	22037.2	21856.6	24368.5	29697.2	39154.9	50025.1	56180.4	49495.4	46425.8	30323.2	16977.3
57.5°	11821.1	11708.8	14882.7	19766.1	30608.1	45691.4	56798.3	52657.3	47220.2	29588.9	15657.2
60°	4602.4	4582.4	5770.1	9590.1	18602.4	37172.7	53680.5	54555.3	47717.8	28686.1	14553.7
62.5°	2784.7	2844.9	3037.5	4305.5	8217.8	23092.5	46494.0	52396.5	48050.9	27859.5	13642.8
65°	2303.2	2307.2	2331.3	2957.3	3936.4	9662.3	35001.9	45294.2	47228.3	26386.8	12350.8
67.5°	1974.2	2010.3	2102.6	2347.4	2776.7	4237.3	20151.3	35086.2	42224.6	22960.1	10336.5
70°	1556.9	1605.0	1721.4	1930.1	2142.7	2652.3	7447.4	23345.3	32257.3	17306.3	7816.5
72.5°	1312.1	1308.1	1368.3	1568.9	1701.3	1865.9	2865.0	13081.1	18746.9	8261.9	3868.1
75°	1015.2	1055.3	1131.6	1312.1	1392.4	1352.2	1552.9	4779.0	6717.1	2503.9	1316.1
77.5°	794.5	826.6	894.8	1071.4	1151.6	959.0	894.8	1709.4	2158.8	898.8	593.9
80°	357.1	385.2	609.9	790.5	938.9	662.1	485.5	874.7	959.0	409.3	300.9
82.5°	64.2	108.3	357.1	417.3	481.5	429.3	252.8	453.4	469.5	164.5	104.3
85°	4.0	8.0	124.4	152.5	192.6	140.4	76.2	180.6	156.5	56.2	40.1
87.5°	0.0	0.0	0.0	4.0	4.0	20.1	24.1	32.1	24.1	20.1	16.1
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°	15681.2	15681.2	15681.2	15681.2	15681.2	15681.2	15681.2	15681.2	15681.2	15681.2
2.5°	15428.4	14858.6	14304.9	13851.5	13586.7	13137.2	12840.3	12792.2	12667.8	12776.1
5°	15131.5	14112.3	13081.1	12158.2	11399.8	10420.7	9690.4	9381.5	9112.6	9204.9
7.5°	14991.1	13382.0	11777.0	10200.0	8578.9	7014.0	5850.4	5364.8	4995.7	5047.8
10°	14802.5	12623.6	10107.7	7700.2	5529.4	3984.5	3182.0	2885.1	2720.5	2724.6
12.5°	14658.0	11716.8	8169.6	5220.4	3366.6	2544.0	2295.2	2223.0	2174.8	2178.8
15°	14585.8	10649.4	6255.6	3478.9	2407.6	2154.8	2094.6	2062.5	2030.4	2026.4
17.5°	14465.4	9461.7	4578.4	2540.0	2106.6	2018.3	1966.2	1930.1	1889.9	1881.9
20°	14284.8	8113.5	3346.5	2146.7	1974.2	1906.0	1833.8	1785.6	1737.5	1729.4
22.5°	13951.8	6689.0	2572.1	1986.2	1877.9	1801.7	1713.4	1657.2	1609.1	1601.0
25°	13333.9	5352.8	2166.8	1885.9	1793.6	1701.3	1605.0	1528.8	1484.7	1476.6
27.5°	12551.4	4205.2	1966.2	1793.6	1685.3	1601.0	1492.7	1420.5	1380.3	1372.3
30°	11628.5	3238.2	1849.8	1689.3	1556.9	1484.7	1388.4	1328.2	1304.1	1304.1
32.5°	10633.4	2588.1	1801.7	1585.0	1444.5	1364.3	1288.0	1264.0	1255.9	1251.9
35°	9698.4	2247.1	1777.6	1500.7	1344.2	1268.0	1235.9	1239.9	1255.9	1255.9
37.5°	8867.8	2138.7	1765.5	1440.5	1255.9	1187.7	1207.8	1243.9	1227.9	1227.9
40°	8117.5	2150.8	1757.5	1396.4	1183.7	1143.6	1183.7	1155.6	1115.5	1111.5
42.5°	7543.7	2251.1	1741.5	1360.3	1139.6	1111.5	1095.4	1051.3	1047.3	1055.3
45°	7126.4	2339.3	1737.5	1344.2	1091.4	1039.3	1019.2	975.1	1055.3	1075.4
47.5°	6632.8	2339.3	1737.5	1288.0	1011.2	991.1	959.0	910.9	991.1	1011.2
50°	5994.8	2190.9	1669.2	1223.8	947.0	934.9	878.8	818.6	802.5	814.6
52.5°	5188.3	1922.0	1496.7	1135.6	882.8	858.7	790.5	746.3	734.3	734.3
55°	4269.4	1609.1	1264.0	1007.2	814.6	770.4	722.3	702.2	690.2	682.1
57.5°	3470.9	1320.1	1015.2	894.8	750.4	694.2	678.1	654.1	634.0	622.0
60°	2848.9	1039.3	838.6	794.5	686.2	634.0	630.0	597.9	545.7	537.7
62.5°	2198.9	762.4	706.2	690.2	622.0	577.8	569.8	505.6	425.3	409.3
65°	1552.9	593.9	569.8	605.9	553.7	513.6	493.5	397.2	313.0	300.9
67.5°	1091.4	497.6	449.4	529.7	481.5	429.3	417.3	337.1	260.8	252.8
70°	778.4	405.3	369.2	453.4	385.2	377.2	353.1	280.9	212.7	204.6
72.5°	549.7	309.0	284.9	393.2	264.8	325.0	288.9	216.7	160.5	152.5
75°	405.3	220.7	200.6	228.7	192.6	244.8	204.6	144.5	100.3	96.3
77.5°	296.9	140.4	120.4	112.4	112.4	152.5	112.4	60.2	44.1	40.1
80°	208.7	64.2	56.2	48.2	44.1	36.1	16.1	8.0	4.0	4.0
82.5°	124.4	28.1	28.1	20.1	12.0	0.0	0.0	0.0	0.0	0.0
85°	28.1	12.0	12.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	4.0	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

(END OF REPORT)