

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: P957348

Luminaire Tested: **GALN-SB9D-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957348
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-SB9D-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 73301 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 658
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

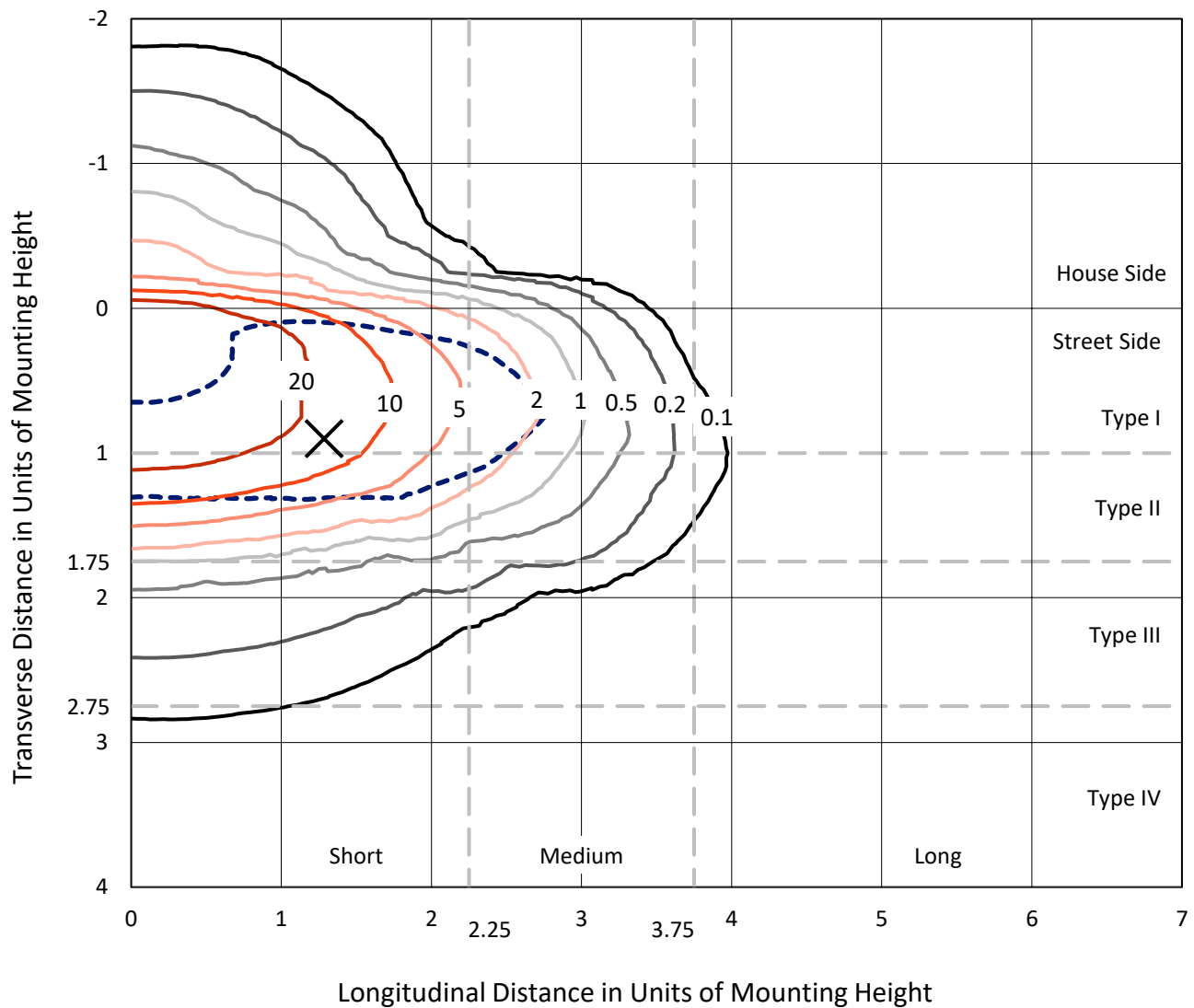


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Iso-Footcandle Lines of Horizontal Illumination

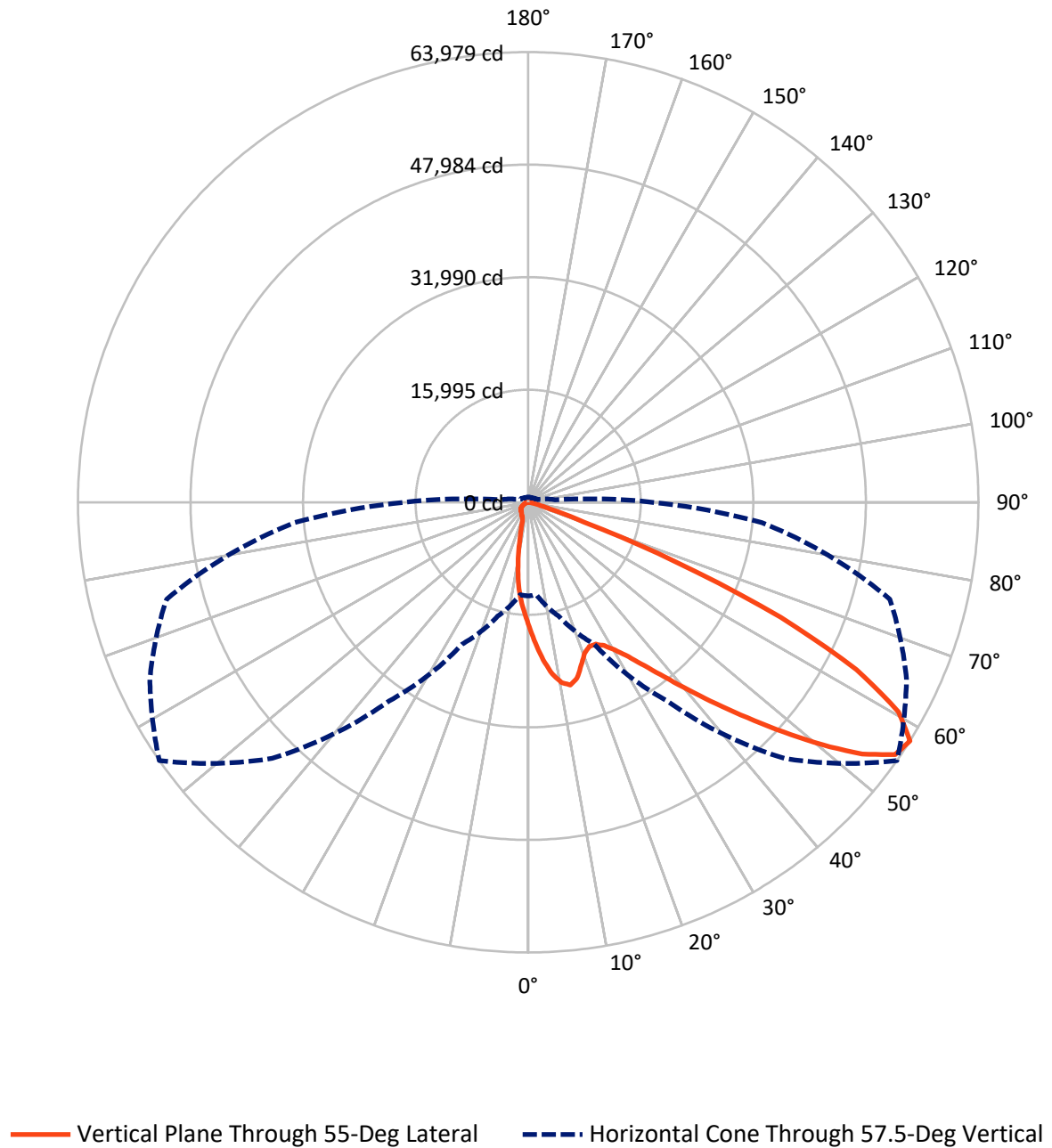
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 40.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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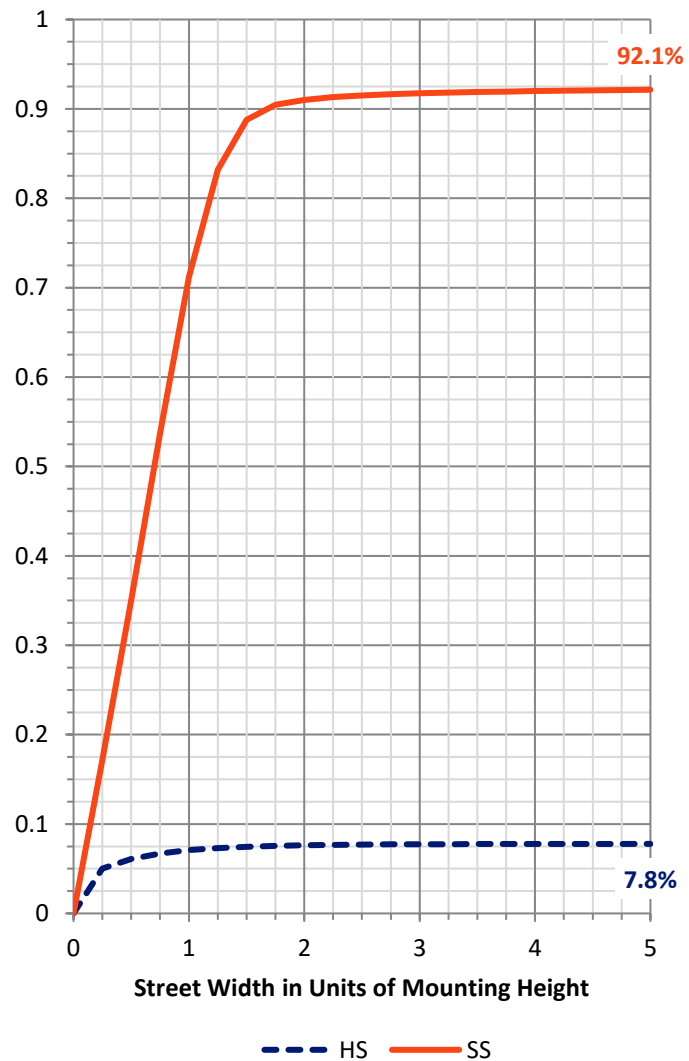
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5724.5	0.0	5724.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	67576.5	0.0	67576.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	73301.0	0.0	73301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1643.5	2.2
10°-20°	3969.9	5.4
20°-30°	6351.8	8.7
30°-40°	10750.8	14.7
40°-50°	17650.6	24.1
50°-60°	19399.2	26.5
60°-70°	11127.4	15.2
70°-80°	2273.7	3.1
80°-90°	134.1	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°	73301.0	100.0
0°-180°	73301.0	100.0

Coefficient of Utilization



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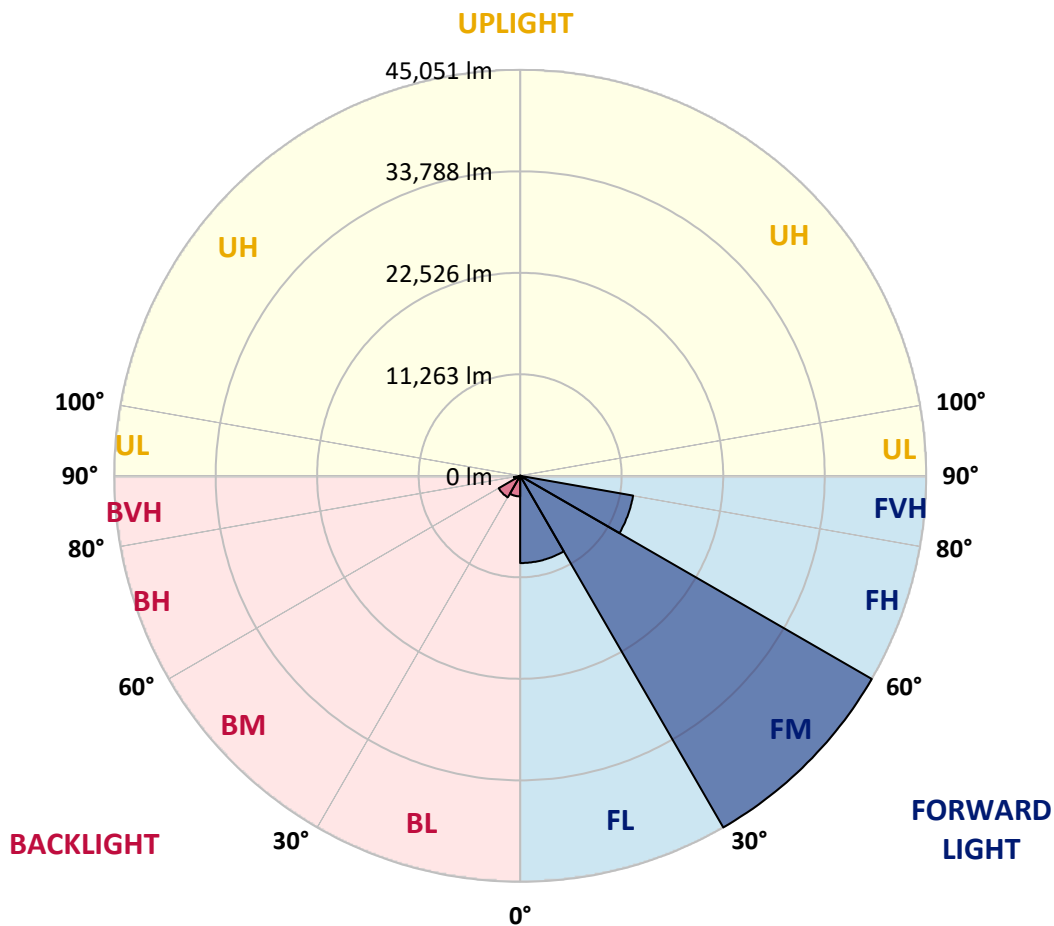
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9679.9	13.2			
FM	(30°-60°)	45051.3	61.5			
FH	(60°-80°)	12720.2	17.4			G5
FVH	(80°-90°)	125.1	0.2			G2/225
BL	(0°-30°)	2285.4	3.1	B3/2500		
BM	(30°-60°)	2749.3	3.8	B3/5000		
BH	(60°-80°)	680.8	0.9	B2/1000		G2/1000
BVH	(80°-90°)	9.0	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-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	17663.7	17663.7	17663.7	17663.7	17663.7	17663.7	17663.7	17663.7	17663.7	17663.7	17663.7
2.5°	21917.0	21641.2	21600.6	21546.3	21022.0	20628.8	20059.3	19435.5	18734.9	18020.8	17704.4
5°	25320.4	25103.5	25062.8	24809.7	24213.1	23544.1	22531.7	21252.5	19946.3	18409.5	17749.6
7.5°	25980.3	25939.7	26125.0	26115.9	26034.6	25505.7	24651.5	23128.3	21166.7	18888.6	17867.1
10°	23037.9	23141.8	23693.3	24176.9	25483.1	26242.5	26057.2	24800.6	22423.2	19435.5	17998.2
12.5°	20357.6	20235.6	20628.8	21175.7	22694.4	24954.3	26640.2	26197.3	23860.5	20054.8	18192.6
15°	18676.2	18626.5	18847.9	19101.1	20258.2	22536.2	25962.3	27331.8	25243.6	20787.0	18486.4
17.5°	18138.3	18097.6	18165.4	18228.7	18979.0	20741.8	24348.7	28027.8	26567.9	21623.2	18811.8
20°	18576.8	18522.5	18513.5	18463.8	18775.6	19977.9	22888.7	28077.6	27756.7	22382.5	19092.0
22.5°	19855.9	19792.6	19571.1	19372.3	19399.4	20081.9	22237.9	27580.4	28651.6	23092.1	19268.3
25°	22174.6	22070.6	21609.6	20940.7	20515.8	20805.1	22337.3	26925.0	29505.8	23648.1	19182.4
27.5°	25076.4	24940.8	24348.7	23354.3	22382.5	22029.9	23056.0	26473.0	30215.5	24072.9	18997.1
30°	27919.4	27743.1	27160.0	26387.1	24967.9	23856.0	24353.2	26671.9	31060.7	24515.9	18753.0
32.5°	30988.4	30821.1	30048.2	29090.0	27914.8	26418.8	26129.5	27643.7	32095.7	25135.1	18581.3
35°	34871.0	34608.8	33510.5	32204.2	30956.7	29442.6	28534.1	29320.5	33474.3	26079.8	18676.2
37.5°	39291.4	38938.9	37754.7	35951.2	34324.1	32629.1	31463.0	31625.7	35494.7	27345.3	18970.0
40°	43458.8	43137.8	42044.0	40344.5	38301.6	36245.0	35002.0	34640.4	38283.5	28886.6	19485.3
42.5°	45958.3	45669.0	45208.0	44489.3	42767.2	40670.0	39101.6	38319.6	41583.0	30730.7	20113.5
45°	46098.4	45845.3	46464.5	47300.7	46961.7	45565.0	43653.1	42220.3	44896.1	32461.9	20764.4
47.5°	43856.5	43684.7	45565.0	48484.9	49940.3	50527.9	48765.1	45795.5	47630.6	33704.8	21031.1
50°	37745.6	37682.3	41551.4	46911.9	51074.8	54876.0	54157.3	49122.2	49750.4	34346.7	20777.9
52.5°	32728.5	32498.0	34753.4	41876.8	49425.0	57163.1	59427.5	52385.5	51233.0	34468.7	20185.8
55°	24823.2	24619.8	27449.3	33451.7	44105.1	56349.5	63283.0	55752.9	52295.1	34156.8	19123.7
57.5°	13315.6	13189.0	16764.3	22265.0	34477.7	51468.0	63979.1	59314.5	53190.1	33329.7	17636.6
60°	5184.3	5161.7	6499.6	10802.5	20954.2	41872.3	60467.1	61452.4	53750.5	32312.7	16393.6
62.5°	3136.8	3204.6	3421.6	4849.8	9256.7	26012.0	52372.0	59020.7	54125.7	31381.6	15367.6
65°	2594.4	2598.9	2626.1	3331.2	4434.0	10883.9	39427.0	51020.5	53199.1	29722.8	13912.2
67.5°	2223.8	2264.5	2368.4	2644.1	3127.8	4773.0	22698.9	39521.9	47562.8	25862.8	11643.2
70°	1753.7	1808.0	1939.0	2174.1	2413.6	2987.6	8388.9	26296.7	36335.4	19494.3	8804.7
72.5°	1478.0	1473.5	1541.3	1767.3	1916.4	2101.7	3227.2	14734.8	21116.9	9306.5	4357.2
75°	1143.5	1188.7	1274.6	1478.0	1568.4	1523.2	1749.2	5383.2	7566.3	2820.4	1482.5
77.5°	894.9	931.1	1007.9	1206.8	1297.2	1080.3	1007.9	1925.5	2431.7	1012.5	668.9
80°	402.3	433.9	687.0	890.4	1057.7	745.8	546.9	985.3	1080.3	461.0	339.0
82.5°	72.3	122.0	402.3	470.1	542.4	483.6	284.8	510.7	528.8	185.3	117.5
85°	4.5	9.0	140.1	171.8	217.0	158.2	85.9	203.4	176.3	63.3	45.2
87.5°	0.0	0.0	0.0	4.5	4.5	22.6	27.1	36.2	27.1	22.6	18.1
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°	17663.7	17663.7	17663.7	17663.7	17663.7	17663.7	17663.7	17663.7	17663.7	17663.7
2.5°	17379.0	16737.2	16113.4	15602.7	15304.4	14798.1	14463.7	14409.4	14269.3	14391.3
5°	17044.5	15896.5	14734.8	13695.3	12841.0	11738.2	10915.5	10567.5	10264.7	10368.6
7.5°	16886.3	15073.8	13265.9	11489.6	9663.5	7900.8	6590.0	6043.1	5627.3	5686.0
10°	16673.9	14219.6	11385.6	8673.7	6228.4	4488.3	3584.3	3249.8	3064.5	3069.0
12.5°	16511.2	13198.1	9202.5	5880.4	3792.2	2865.6	2585.4	2504.0	2449.8	2454.3
15°	16429.8	11995.8	7046.5	3918.7	2711.9	2427.2	2359.4	2323.2	2287.1	2282.5
17.5°	16294.2	10657.9	5157.2	2861.1	2372.9	2273.5	2214.7	2174.1	2128.9	2119.8
20°	16090.8	9139.2	3769.6	2418.1	2223.8	2146.9	2065.6	2011.4	1957.1	1948.1
22.5°	15715.7	7534.7	2897.3	2237.3	2115.3	2029.4	1930.0	1866.7	1812.5	1803.4
25°	15019.6	6029.5	2440.7	2124.3	2020.4	1916.4	1808.0	1722.1	1672.4	1663.3
27.5°	14138.2	4736.8	2214.7	2020.4	1898.4	1803.4	1681.4	1600.0	1554.8	1545.8
30°	13098.6	3647.6	2083.7	1902.9	1753.7	1672.4	1563.9	1496.1	1469.0	1469.0
32.5°	11977.7	2915.3	2029.4	1785.4	1627.2	1536.8	1450.9	1423.8	1414.7	1410.2
35°	10924.6	2531.1	2002.3	1690.4	1514.2	1428.3	1392.1	1396.6	1414.7	1414.7
37.5°	9989.0	2409.1	1988.8	1622.6	1414.7	1337.9	1360.5	1401.2	1383.1	1383.1
40°	9143.7	2422.7	1979.7	1572.9	1333.4	1288.2	1333.4	1301.7	1256.5	1252.0
42.5°	8497.4	2535.7	1961.6	1532.2	1283.6	1252.0	1233.9	1184.2	1179.7	1188.7
45°	8027.3	2635.1	1957.1	1514.2	1229.4	1170.7	1148.1	1098.3	1188.7	1211.3
47.5°	7471.4	2635.1	1957.1	1450.9	1139.0	1116.4	1080.3	1026.0	1116.4	1139.0
50°	6752.7	2467.9	1880.3	1378.6	1066.7	1053.1	989.9	922.1	904.0	917.5
52.5°	5844.2	2165.0	1685.9	1279.1	994.4	967.3	890.4	840.7	827.1	827.1
55°	4809.2	1812.5	1423.8	1134.5	917.5	867.8	813.6	791.0	777.4	768.4
57.5°	3909.7	1487.0	1143.5	1007.9	845.2	781.9	763.9	736.7	714.1	700.6
60°	3209.1	1170.7	944.7	894.9	772.9	714.1	709.6	673.5	614.7	605.7
62.5°	2476.9	858.8	795.5	777.4	700.6	650.9	641.8	569.5	479.1	461.0
65°	1749.2	668.9	641.8	682.5	623.7	578.5	555.9	447.5	352.6	339.0
67.5°	1229.4	560.5	506.2	596.6	542.4	483.6	470.1	379.7	293.8	284.8
70°	876.9	456.5	415.8	510.7	433.9	424.9	397.8	316.4	239.6	230.5
72.5°	619.2	348.0	320.9	442.9	298.3	366.1	325.4	244.1	180.8	171.8
75°	456.5	248.6	226.0	257.6	217.0	275.7	230.5	162.7	113.0	108.5
77.5°	334.5	158.2	135.6	126.6	126.6	171.8	126.6	67.8	49.7	45.2
80°	235.0	72.3	63.3	54.2	49.7	40.7	18.1	9.0	4.5	4.5
82.5°	140.1	31.6	31.6	22.6	13.6	0.0	0.0	0.0	0.0	0.0
85°	31.6	13.6	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	4.5	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)