

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: P954152

Luminaire Tested: **GALN-SB7C-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38053 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 350.5
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

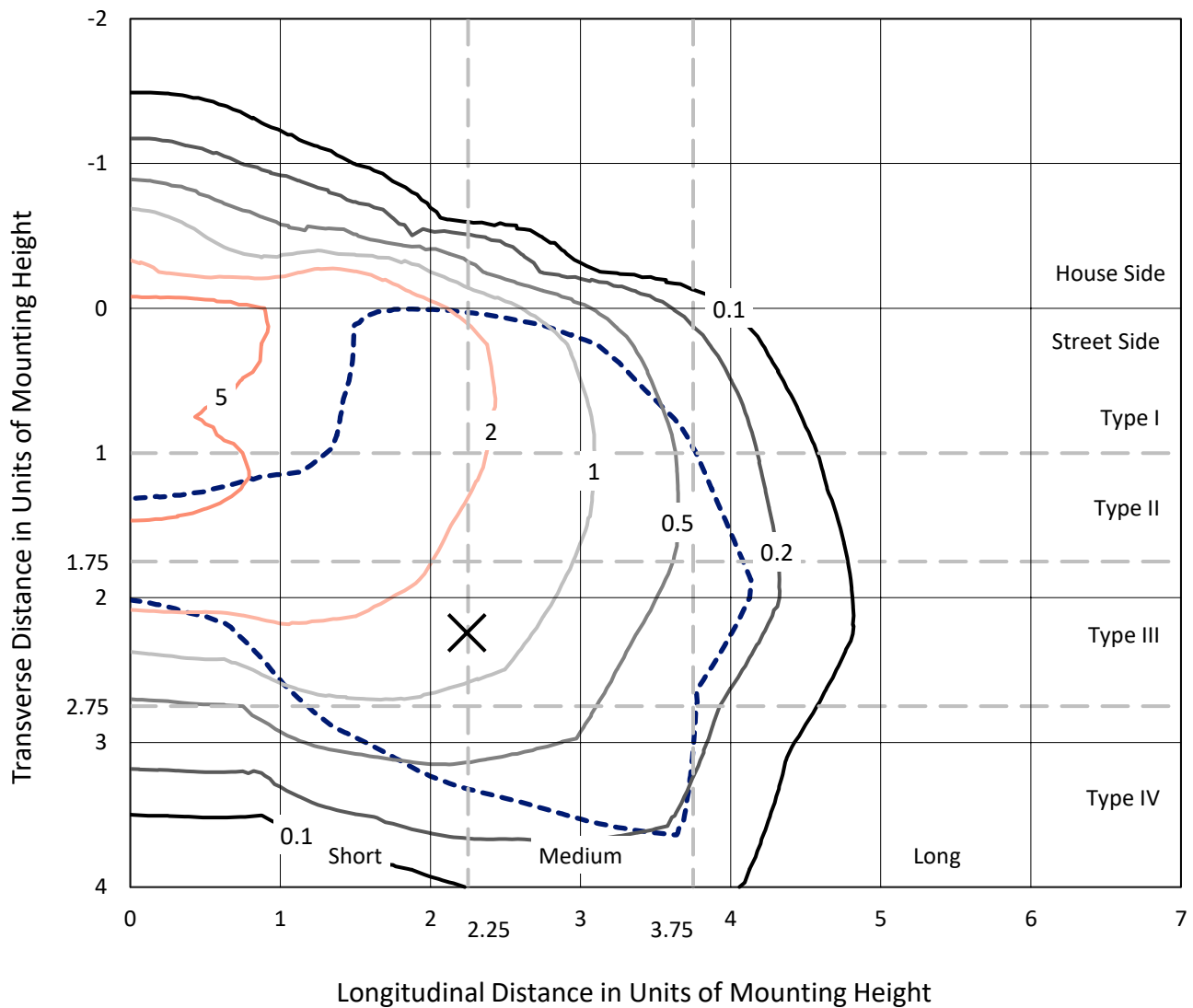


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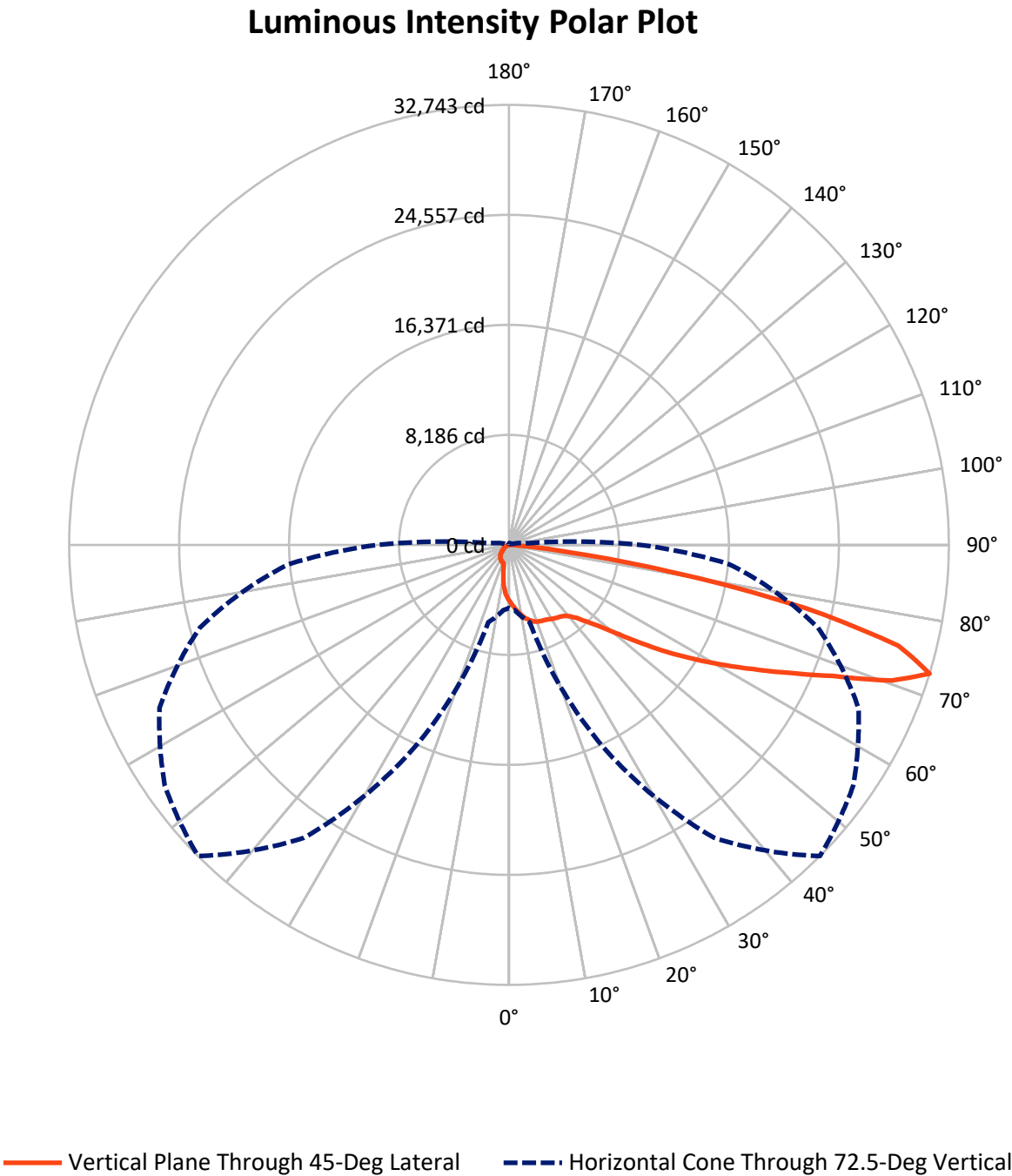
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
Type IV - Short - N/A

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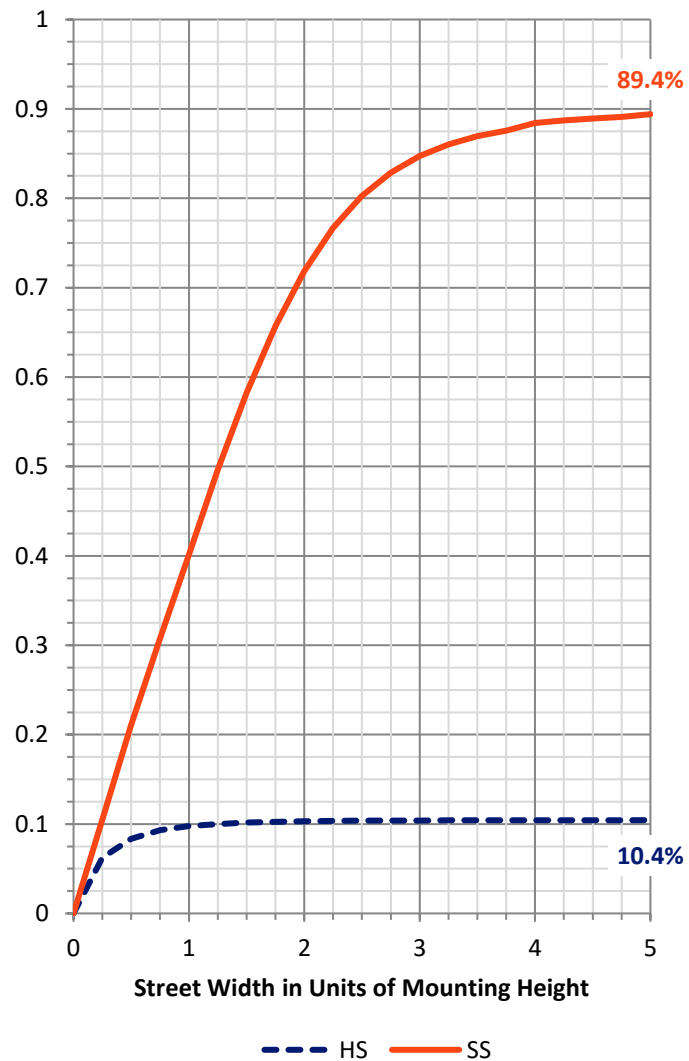
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3998.3	0.0	3998.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	34054.7	0.0	34054.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	38053.0	0.0	38053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.8	1.0
10°-20°	1147.9	3.0
20°-30°	1885.1	5.0
30°-40°	2673.5	7.0
40°-50°	4419.0	11.6
50°-60°	7938.3	20.9
60°-70°	11022.7	29.0
70°-80°	7995.6	21.0
80°-90°	578.0	1.5
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°	38053.0	100.0
0°-180°	38053.0	100.0

Coefficient of Utilization



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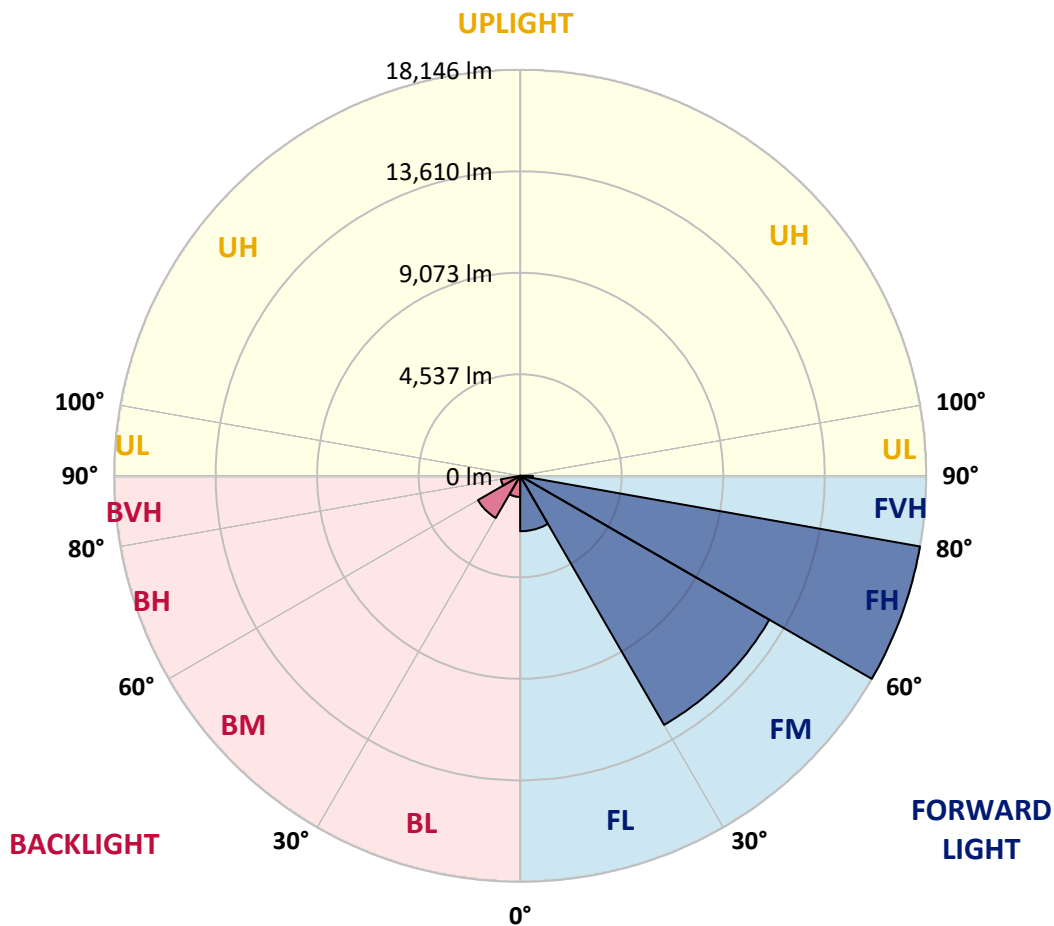
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2478.8	6.5			
FM	(30°-60°)	12856.3	33.8			
FH	(60°-80°)	18146.4	47.7			G5
FVH	(80°-90°)	573.2	1.5			G4/750
BL	(0°-30°)	947.0	2.5	B2/1000		
BM	(30°-60°)	2174.5	5.7	B2/2500		
BH	(60°-80°)	871.9	2.3	B2/1000		G2/1000
BVH	(80°-90°)	4.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8
2.5°	4553.2	4561.0	4555.8	4524.6	4472.7	4444.1	4428.5	4376.6	4342.8	4283.1	4220.7
5°	4971.4	5002.5	4984.4	4922.0	4823.3	4753.2	4732.4	4625.9	4529.8	4418.1	4288.3
7.5°	5415.5	5431.1	5397.3	5316.8	5184.4	5064.9	5046.7	4898.6	4745.4	4574.0	4397.4
10°	5799.9	5818.1	5766.2	5649.3	5498.6	5350.6	5324.6	5161.0	4979.2	4768.8	4542.8
12.5°	6122.0	6140.2	6072.7	5932.4	5766.2	5612.9	5587.0	5415.5	5215.5	4981.8	4701.2
15°	6366.2	6399.9	6309.0	6158.4	5979.2	5825.9	5812.9	5644.1	5449.3	5189.6	4890.9
17.5°	6509.0	6542.8	6457.1	6275.3	6122.0	5992.1	5976.6	5836.3	5654.5	5405.1	5075.3
20°	6532.4	6563.6	6472.7	6314.2	6186.9	6083.1	6075.3	5974.0	5841.5	5602.5	5275.3
22.5°	6462.3	6501.2	6418.1	6290.8	6202.5	6148.0	6137.6	6080.5	6005.1	5802.5	5462.3
25°	6389.5	6420.7	6358.4	6246.7	6199.9	6194.7	6202.5	6192.1	6176.6	6005.1	5680.5
27.5°	6384.3	6418.1	6348.0	6241.5	6215.5	6270.1	6277.9	6327.2	6340.2	6189.5	5890.8
30°	6428.5	6451.9	6384.3	6272.7	6259.7	6384.3	6386.9	6475.3	6496.0	6345.4	6098.6
32.5°	6524.6	6550.6	6483.0	6319.4	6301.2	6475.3	6483.0	6599.9	6633.7	6511.6	6316.8
35°	6750.6	6781.7	6703.8	6449.3	6384.3	6561.0	6584.3	6722.0	6789.5	6688.2	6542.8
37.5°	7314.2	7223.3	7116.8	6711.6	6574.0	6696.0	6735.0	6896.0	7015.5	6898.6	6812.9
40°	8714.2	8428.5	8096.0	7158.4	6906.4	6984.3	7015.5	7176.5	7340.2	7225.9	7184.3
42.5°	10815.5	10477.8	9942.8	8186.9	7407.7	7446.7	7470.1	7610.3	7841.5	7750.6	7761.0
45°	12688.2	12566.1	12020.7	9942.8	8345.4	8153.2	8181.7	8254.5	8594.7	8560.9	8628.5
47.5°	14127.1	14057.0	13636.2	11958.3	9929.8	9018.1	9098.6	9132.4	9623.3	9742.8	9924.6
50°	15233.6	15207.6	14831.0	13750.5	11999.9	10293.4	10322.0	10249.2	10984.3	11280.4	11625.9
52.5°	16277.8	16366.1	16088.1	15415.4	14210.2	11963.5	11958.3	11615.5	12607.7	13054.4	13644.0
55°	17220.6	17251.8	17280.3	17114.1	16433.6	13864.8	13815.4	13254.4	14490.8	14953.1	15592.0
57.5°	18106.3	18119.3	18373.8	18714.1	18747.9	15906.3	15815.4	15142.7	16547.9	16877.7	17269.9
60°	18701.1	18760.8	19298.5	20243.9	20656.9	18012.8	17963.4	17277.7	18641.4	18794.6	18721.9
62.5°	17844.0	18207.6	19563.4	21438.7	22459.5	20347.8	20324.5	19680.3	20843.9	20719.3	20095.9
65°	14444.0	15059.6	17444.0	22246.5	24228.3	22955.6	22989.4	22303.7	23106.2	22701.1	21212.8
67.5°	10103.8	10753.1	13573.9	22311.5	26204.9	26017.9	26212.7	25137.4	25508.8	24599.7	21477.7
70°	6986.9	7322.0	9158.3	20914.1	27745.2	30236.0	30230.8	28617.9	27898.4	25464.7	20127.1
72.5°	4698.7	4872.7	5948.0	16592.0	26612.7	32742.5	32591.9	31277.6	28703.6	23815.3	16444.0
75°	1981.8	2109.1	2753.2	9324.6	21054.3	29955.5	29547.7	27641.3	25503.6	18753.0	10259.6
77.5°	628.6	683.1	1085.7	3337.6	11597.3	22516.6	22085.5	17262.2	17093.3	9407.7	3750.6
80°	298.7	348.0	610.4	1340.2	4563.6	12246.6	12186.9	7831.1	7353.2	2540.2	753.2
82.5°	129.9	153.2	337.7	716.9	2041.5	4368.8	4457.1	2664.9	2205.2	963.6	231.2
85°	41.6	54.5	155.8	329.9	862.3	1085.7	1072.7	633.8	888.3	524.7	80.5
87.5°	0.0	0.0	51.9	75.3	88.3	62.3	70.1	54.5	246.8	145.5	28.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8
2.5°	4189.6	4148.0	4075.3	4007.7	3948.0	3888.3	3851.9	3800.0	3794.8	3794.8	3807.8
5°	4218.1	4150.6	4020.7	3883.1	3724.6	3574.0	3423.3	3277.9	3231.1	3197.4	3213.0
7.5°	4301.3	4194.8	3989.6	3727.2	3425.9	3096.1	2864.9	2615.6	2519.5	2467.5	2475.3
10°	4420.7	4275.3	3963.6	3503.9	3015.6	2566.2	2236.3	1966.2	1862.3	1818.2	1818.2
12.5°	4553.2	4374.0	3916.8	3225.9	2566.2	2028.5	1706.5	1581.8	1566.2	1566.2	1566.2
15°	4711.6	4493.5	3836.3	2898.7	2096.1	1605.2	1490.9	1496.1	1511.7	1522.1	1522.1
17.5°	4875.3	4620.7	3709.1	2532.4	1680.5	1444.1	1446.7	1454.5	1467.5	1477.9	1477.9
20°	5051.9	4748.0	3540.2	2142.8	1441.5	1397.4	1405.2	1413.0	1423.4	1428.6	1431.2
22.5°	5241.5	4867.5	3340.2	1761.0	1361.0	1358.4	1361.0	1368.8	1381.8	1381.8	1387.0
25°	5444.1	4999.9	3111.7	1483.1	1319.5	1319.5	1324.7	1329.9	1340.2	1340.2	1342.8
27.5°	5651.9	5122.0	2870.1	1337.6	1283.1	1280.5	1280.5	1288.3	1293.5	1296.1	1298.7
30°	5880.5	5264.9	2628.5	1306.5	1254.5	1241.5	1233.8	1238.9	1244.1	1246.7	1251.9
32.5°	6114.2	5402.5	2413.0	1319.5	1226.0	1202.6	1176.6	1171.4	1171.4	1181.8	1189.6
35°	6374.0	5553.2	2246.7	1363.6	1210.4	1145.4	1103.9	1080.5	1083.1	1098.7	1106.5
37.5°	6685.6	5735.0	2124.7	1402.6	1200.0	1080.5	1013.0	984.4	966.2	984.4	979.2
40°	7093.4	6002.5	2036.3	1433.8	1187.0	1005.2	914.3	867.5	833.8	844.1	839.0
42.5°	7693.4	6423.3	2002.6	1436.3	1158.4	916.9	813.0	750.6	701.3	703.9	693.5
45°	8535.0	7088.2	2176.6	1402.6	1096.1	820.8	706.5	623.4	592.2	584.4	574.0
47.5°	9688.2	8057.1	2579.2	1332.5	1005.2	727.3	602.6	532.5	509.1	496.1	488.3
50°	11233.6	9301.2	3025.9	1254.5	914.3	639.0	516.9	472.7	457.1	444.2	441.6
52.5°	13025.8	10563.5	3392.2	1176.6	823.4	561.0	462.3	436.4	423.4	413.0	410.4
55°	14670.0	11433.6	3371.4	1093.5	735.1	498.7	423.4	407.8	392.2	381.8	376.6
57.5°	15693.3	11555.7	2779.2	1002.6	633.8	449.3	387.0	376.6	358.4	345.5	342.9
60°	16163.5	10859.6	1948.0	883.1	532.5	402.6	348.0	342.9	319.5	301.3	296.1
62.5°	16249.2	9566.1	1298.7	735.1	444.2	358.4	309.1	301.3	270.1	239.0	223.4
65°	15901.1	7716.8	898.7	574.0	379.2	311.7	264.9	249.3	215.6	184.4	174.0
67.5°	14799.8	5418.1	626.0	413.0	322.1	246.8	210.4	205.2	179.2	153.2	145.5
70°	12781.7	3088.3	418.2	309.1	254.5	168.8	166.2	171.4	145.5	124.7	114.3
72.5°	9799.9	1413.0	259.7	226.0	174.0	114.3	132.5	135.1	111.7	93.5	83.1
75°	5768.8	605.2	163.6	145.5	88.3	75.3	96.1	98.7	75.3	59.7	51.9
77.5°	1963.6	228.6	103.9	85.7	44.2	41.6	62.3	62.3	41.6	23.4	18.2
80°	446.7	85.7	51.9	33.8	20.8	18.2	20.8	18.2	10.4	2.6	0.0
82.5°	127.3	33.8	20.8	13.0	7.8	7.8	2.6	0.0	0.0	0.0	0.0
85°	36.4	15.6	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.6	2.6	0.0	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	0.0

(END OF REPORT)