

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: P533953

Luminaire Tested: **GALN-SA9B-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23972 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 364
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

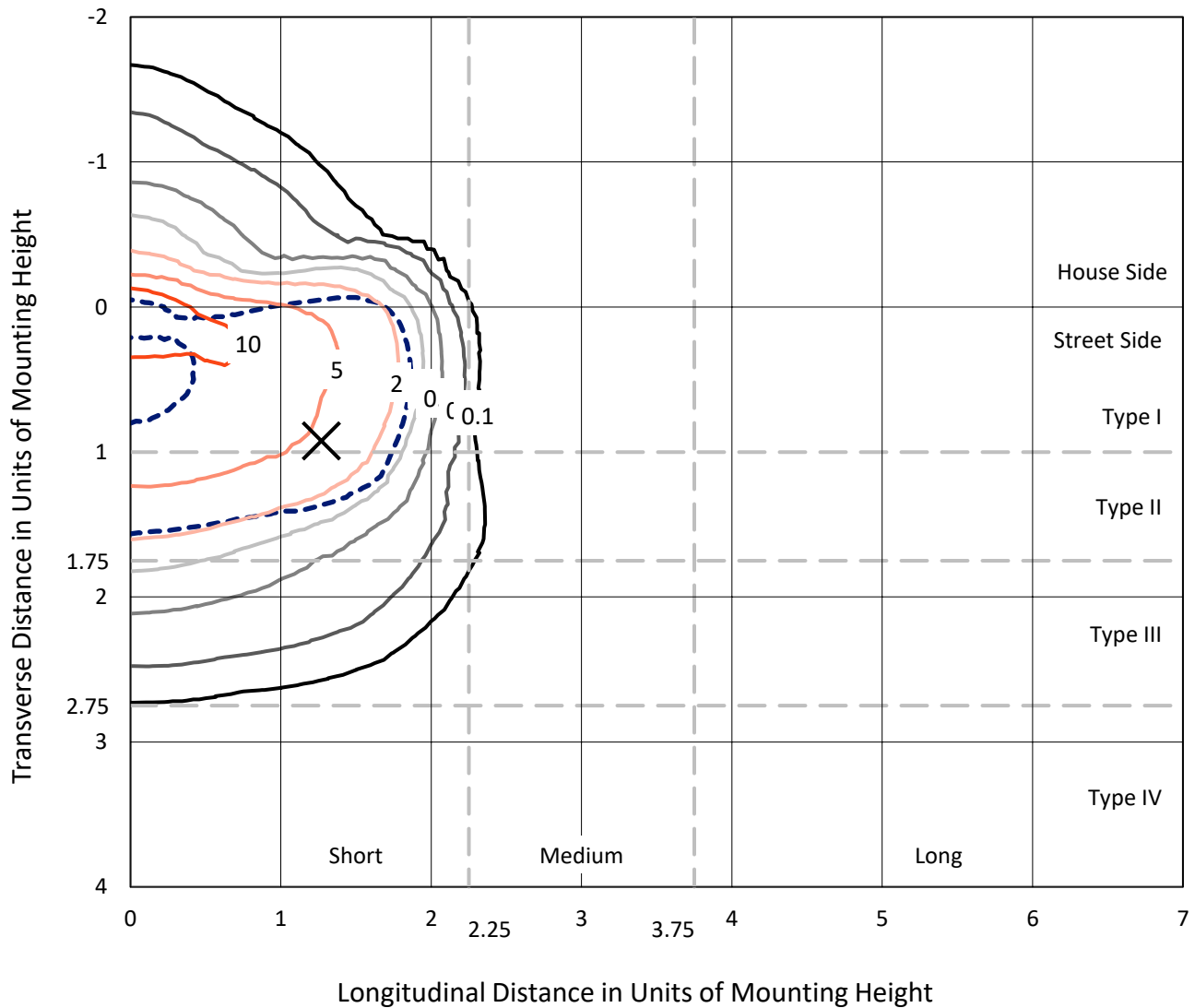


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Iso-Footcandle Lines of Horizontal Illumination

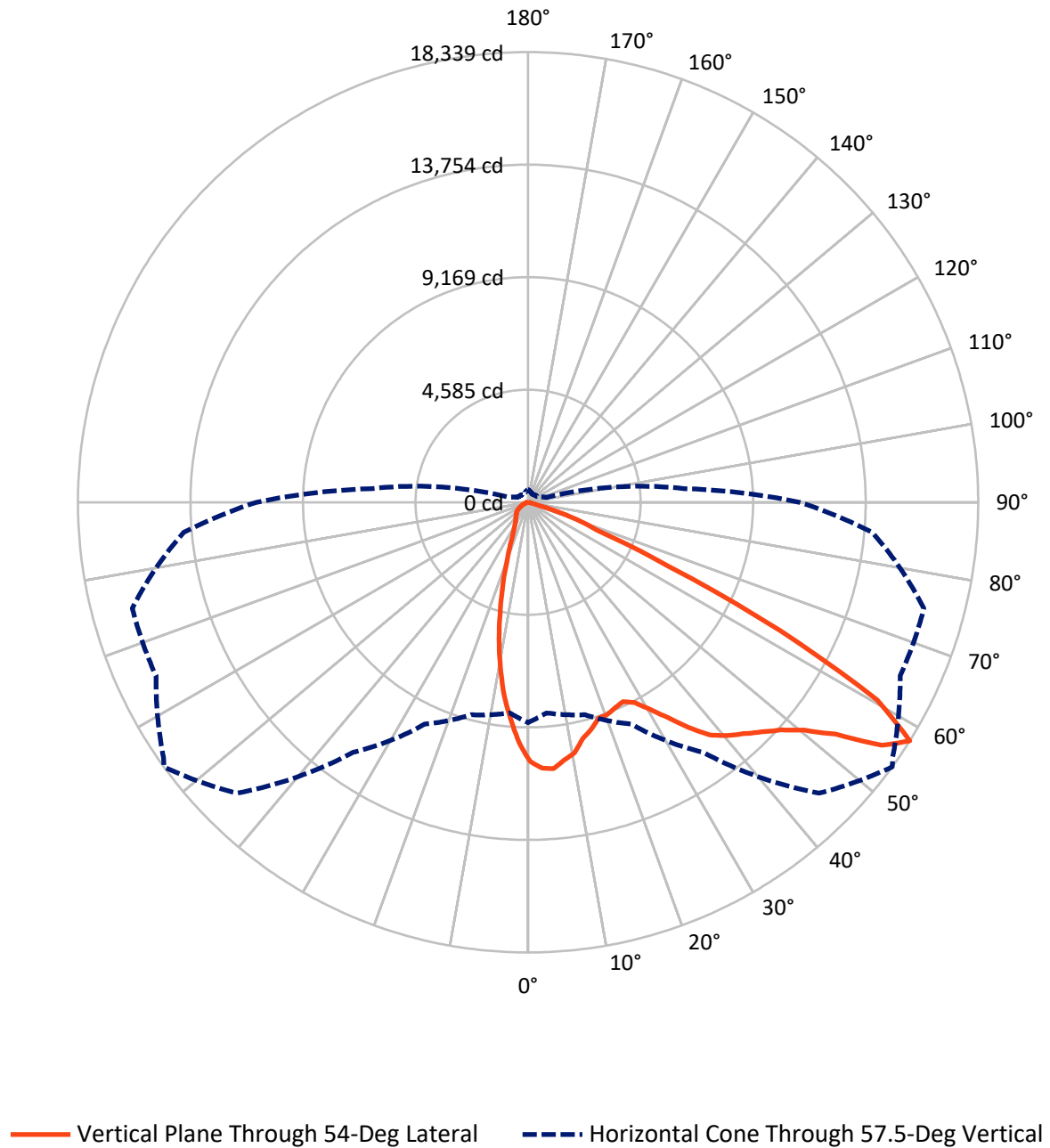
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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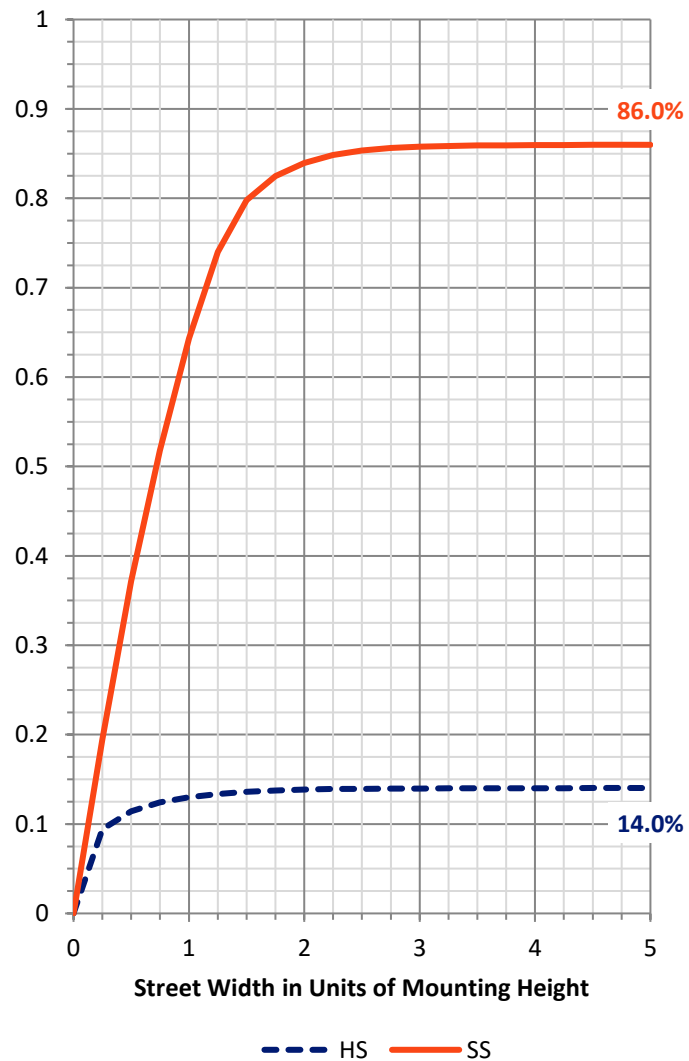
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3387.7	0.0	3387.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	20584.4	0.0	20584.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	23972.0	0.0	23972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.7	3.7
10°-20°	1886.6	7.9
20°-30°	2500.2	10.4
30°-40°	3633.5	15.2
40°-50°	5387.9	22.5
50°-60°	6737.4	28.1
60°-70°	2657.6	11.1
70°-80°	264.6	1.1
80°-90°	20.6	0.1
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°	23972.0	100.0
0°-180°	23972.0	100.0

Coefficient of Utilization



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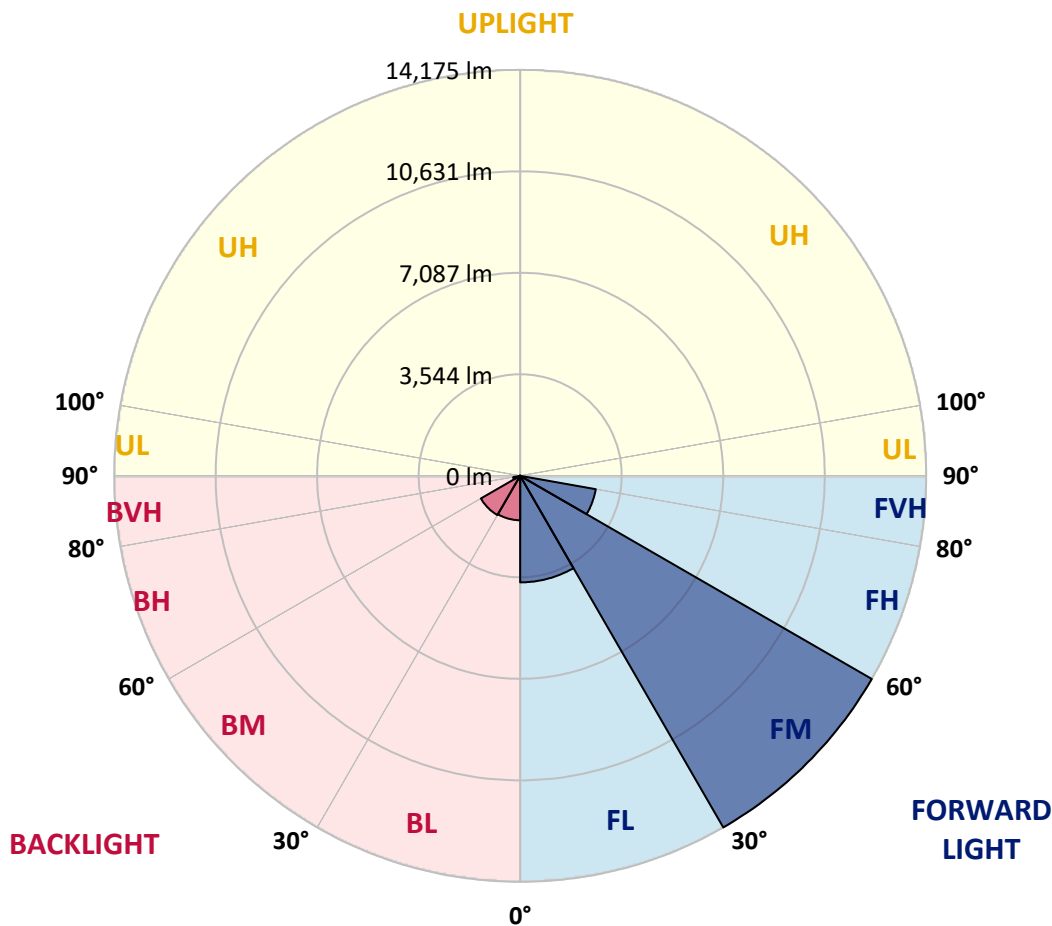
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3721.1	15.5			
FM	(30°-60°)	14174.6	59.1			
FH	(60°-80°)	2679.3	11.2			G2/5000
FVH	(80°-90°)	9.3	0.0			G0/10
BL	(0°-30°)	1549.3	6.5	B3/2500		
BM	(30°-60°)	1584.2	6.6	B2/2500		
BH	(60°-80°)	242.9	1.0	B1/500		G1/500
BVH	(80°-90°)	11.2	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10560.0	10560.0	10560.0	10560.0	10560.0	10560.0	10560.0	10560.0	10560.0	10560.0	10560.0
2.5°	11175.1	11059.2	11068.2	11028.0	10974.5	11014.7	10840.8	10880.9	10876.5	10640.2	10484.2
5°	10894.3	11019.1	10889.8	10996.8	10894.3	11005.7	10898.8	10818.5	10689.3	10515.4	10225.7
7.5°	10417.3	10297.0	10332.7	10466.4	10488.7	10738.3	10604.6	10707.1	10653.6	10310.4	9913.6
10°	9459.0	9432.2	9610.5	9788.8	10007.2	10274.7	10377.2	10319.3	10279.2	10149.9	9619.4
12.5°	8723.5	8799.2	8794.8	9089.0	9459.0	9610.5	9878.0	9869.1	10091.9	9851.2	9343.1
15°	8023.6	8063.7	8251.0	8433.7	8843.8	9276.2	9606.1	9650.6	9918.1	9748.7	9129.1
17.5°	7595.7	7537.8	7684.9	7903.3	8322.3	8888.4	9253.9	9360.9	9726.4	9690.8	8883.9
20°	7172.2	7172.2	7292.6	7551.1	7934.5	8571.9	9222.7	9191.5	9726.4	9623.9	8620.9
22.5°	7029.6	7100.9	7132.1	7328.2	7782.9	8331.2	9089.0	9146.9	9802.2	9592.7	8505.0
25°	7225.7	7132.1	7141.0	7297.0	7725.0	8215.3	8990.9	9120.2	9940.4	9748.7	8411.4
27.5°	7256.9	7350.5	7377.3	7484.3	7769.5	8251.0	9236.1	9499.1	10283.6	10114.2	8438.2
30°	7528.8	7622.4	7618.0	7800.8	7996.9	8540.7	9784.4	9837.9	10992.4	10573.4	8603.1
32.5°	7858.7	7956.8	7988.0	8201.9	8357.9	9071.2	10453.0	10591.2	11674.4	11295.5	9035.5
35°	8268.8	8233.1	8375.8	8589.7	8924.1	9846.8	11268.7	11500.5	12409.9	12231.6	9481.3
37.5°	8781.4	8736.8	8875.0	9222.7	9677.4	10765.0	12022.1	12173.6	12944.8	13100.8	10305.9
40°	9142.5	9160.3	9579.3	10047.4	10528.8	11638.7	12499.0	12646.1	13319.2	13912.1	10930.0
42.5°	9744.3	9855.7	10359.4	10930.0	11433.7	12294.0	12886.8	13029.5	13493.1	14562.9	11772.4
45°	10617.9	10568.9	11126.1	11763.5	12320.7	12976.0	13346.0	13296.9	13595.6	15209.2	12302.9
47.5°	11741.2	11750.2	12120.1	12664.0	13243.4	13568.8	13858.6	13684.7	13809.6	15891.2	13011.7
50°	12507.9	12574.8	12873.5	13430.7	13720.4	14219.7	14589.6	14482.7	14442.5	16301.3	13457.4
52.5°	12704.1	12904.7	13065.1	13760.5	14438.1	15227.1	15699.6	15926.9	15213.7	16439.5	14023.5
55°	11224.2	11402.5	11968.6	12922.5	14710.0	16822.9	17473.7	17478.1	16221.1	17054.7	14420.2
57.5°	8973.1	8612.0	8959.7	9971.6	12436.6	16756.0	18338.5	18128.9	16724.8	16693.6	14077.0
60°	6204.9	6115.8	6138.1	6539.3	8607.6	13328.1	16341.5	16613.4	15400.9	14469.3	11143.9
62.5°	4916.7	4840.9	4742.9	4698.3	5344.6	8304.5	11527.3	11910.6	10769.5	9383.2	6606.1
65°	3851.3	3806.8	3820.1	3998.4	3994.0	4711.7	6303.0	6147.0	4921.2	3637.4	2077.2
67.5°	2598.8	2665.6	2719.1	3258.5	3534.9	3280.8	3044.5	2955.4	1600.3	673.1	459.1
70°	1462.1	1471.0	1528.9	2037.1	2683.5	2545.3	2099.5	2099.5	797.9	245.2	263.0
72.5°	797.9	771.2	717.7	878.1	1194.6	1212.5	936.1	815.7	236.3	160.5	147.1
75°	387.8	383.4	329.9	271.9	258.5	214.0	164.9	151.6	107.0	102.5	89.2
77.5°	80.2	75.8	40.1	40.1	44.6	49.0	62.4	62.4	75.8	75.8	62.4
80°	0.0	0.0	4.5	17.8	31.2	44.6	53.5	53.5	62.4	62.4	49.0
82.5°	0.0	0.0	4.5	13.4	26.7	40.1	49.0	53.5	62.4	66.9	53.5
85°	0.0	0.0	0.0	8.9	22.3	31.2	26.7	26.7	22.3	17.8	8.9
87.5°	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10560.0	10560.0	10560.0	10560.0	10560.0	10560.0	10560.0	10560.0	10560.0	10560.0	10560.0
2.5°	10404.0	10395.1	10190.0	10074.1	9864.6	9681.8	9534.7	9427.8	9427.8	9360.9	9298.5
5°	10109.8	10034.0	9597.2	9316.3	8919.6	8625.4	8424.8	8268.8	8023.6	8090.5	7827.5
7.5°	9744.3	9552.6	8973.1	8545.2	7996.9	7577.9	7149.9	6771.1	6405.5	6240.6	6329.8
10°	9352.0	9017.7	8237.6	7560.0	6878.0	6111.3	5612.1	5005.9	4631.4	4609.1	4511.1
12.5°	8937.4	8558.5	7609.1	6673.0	5777.0	4854.3	4092.1	3525.9	3271.9	2991.0	3044.5
15°	8625.4	8063.7	6909.2	5781.5	4591.3	3659.7	2893.0	2456.1	2215.4	2148.5	2126.3
17.5°	8286.6	7684.9	6196.0	4832.0	3601.7	2634.4	2081.7	1872.2	1778.6	1778.6	1765.2
20°	7934.5	7256.9	5487.3	3949.4	2701.3	1965.8	1667.1	1600.3	1595.8	1591.4	1591.4
22.5°	7702.7	6766.6	4845.4	3138.1	2037.1	1573.5	1448.7	1422.0	1439.8	1493.3	1493.3
25°	7457.5	6294.1	4136.6	2420.5	1578.0	1350.6	1279.3	1297.2	1341.7	1390.8	1372.9
27.5°	7207.9	5986.5	3468.0	1898.9	1292.7	1181.3	1154.5	1194.6	1243.7	1288.2	1274.9
30°	7149.9	5656.7	2835.0	1439.8	1109.9	1029.7	1047.5	1083.2	1132.2	1150.1	1167.9
32.5°	7239.1	5398.1	2322.4	1181.3	967.3	945.0	945.0	962.8	994.0	1034.2	1020.8
35°	7493.2	5251.0	1836.5	1025.2	887.1	864.8	860.3	878.1	896.0	909.3	896.0
37.5°	7881.0	5135.1	1502.2	909.3	833.6	797.9	789.0	784.5	802.4	806.8	815.7
40°	8375.8	5197.5	1274.9	838.0	780.1	740.0	713.2	713.2	713.2	726.6	731.0
42.5°	8910.7	5282.2	1101.0	797.9	731.0	682.0	655.3	646.3	655.3	673.1	668.6
45°	9472.3	5447.2	989.6	735.5	686.5	624.1	588.4	579.5	601.8	637.4	633.0
47.5°	9998.3	5683.4	904.9	695.4	641.9	583.9	539.4	530.5	570.6	619.6	624.1
50°	10524.3	6093.5	873.7	664.2	610.7	543.8	503.7	494.8	539.4	601.8	615.1
52.5°	11130.6	6534.8	851.4	624.1	575.0	512.6	468.0	459.1	508.2	588.4	592.9
55°	11527.3	6909.2	833.6	552.7	508.2	463.6	427.9	423.5	477.0	548.3	566.1
57.5°	11063.7	6387.7	771.2	481.4	432.4	410.1	378.9	378.9	423.5	490.3	503.7
60°	8389.2	4203.5	548.3	387.8	365.5	352.1	338.8	338.8	374.4	423.5	427.9
62.5°	4912.2	2264.4	352.1	312.0	312.0	298.7	276.4	276.4	312.0	338.8	343.2
65°	1457.6	726.6	285.3	267.5	263.0	240.7	218.4	214.0	240.7	254.1	249.6
67.5°	419.0	334.3	236.3	222.9	218.4	182.8	169.4	164.9	169.4	160.5	156.0
70°	249.6	227.3	182.8	187.2	164.9	133.7	120.4	115.9	107.0	93.6	84.7
72.5°	138.2	138.2	133.7	142.6	115.9	89.2	75.8	62.4	49.0	40.1	35.7
75°	84.7	89.2	93.6	98.1	75.8	57.9	49.0	31.2	17.8	8.9	8.9
77.5°	57.9	62.4	66.9	71.3	62.4	53.5	40.1	22.3	4.5	0.0	0.0
80°	44.6	49.0	57.9	62.4	66.9	71.3	53.5	22.3	4.5	0.0	0.0
82.5°	49.0	53.5	66.9	62.4	62.4	62.4	49.0	22.3	4.5	0.0	0.0
85°	8.9	13.4	22.3	22.3	31.2	40.1	31.2	8.9	0.0	0.0	0.0
87.5°	0.0	0.0	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)