

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: P651449

Luminaire Tested: **GALN-SA6D-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22518.6 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

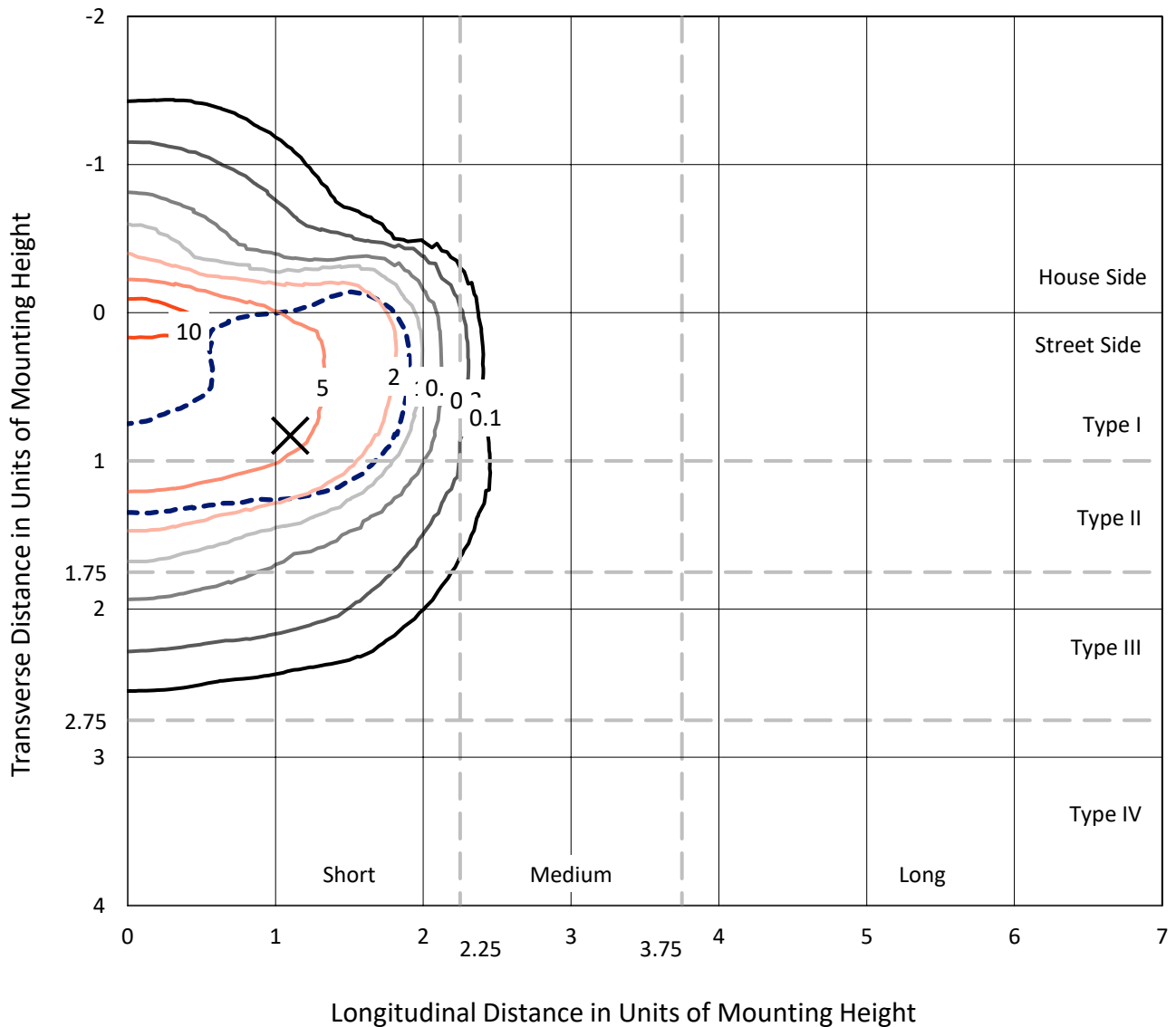
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651449
 CATALOG NUMBER: GALN-SA6D-840-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

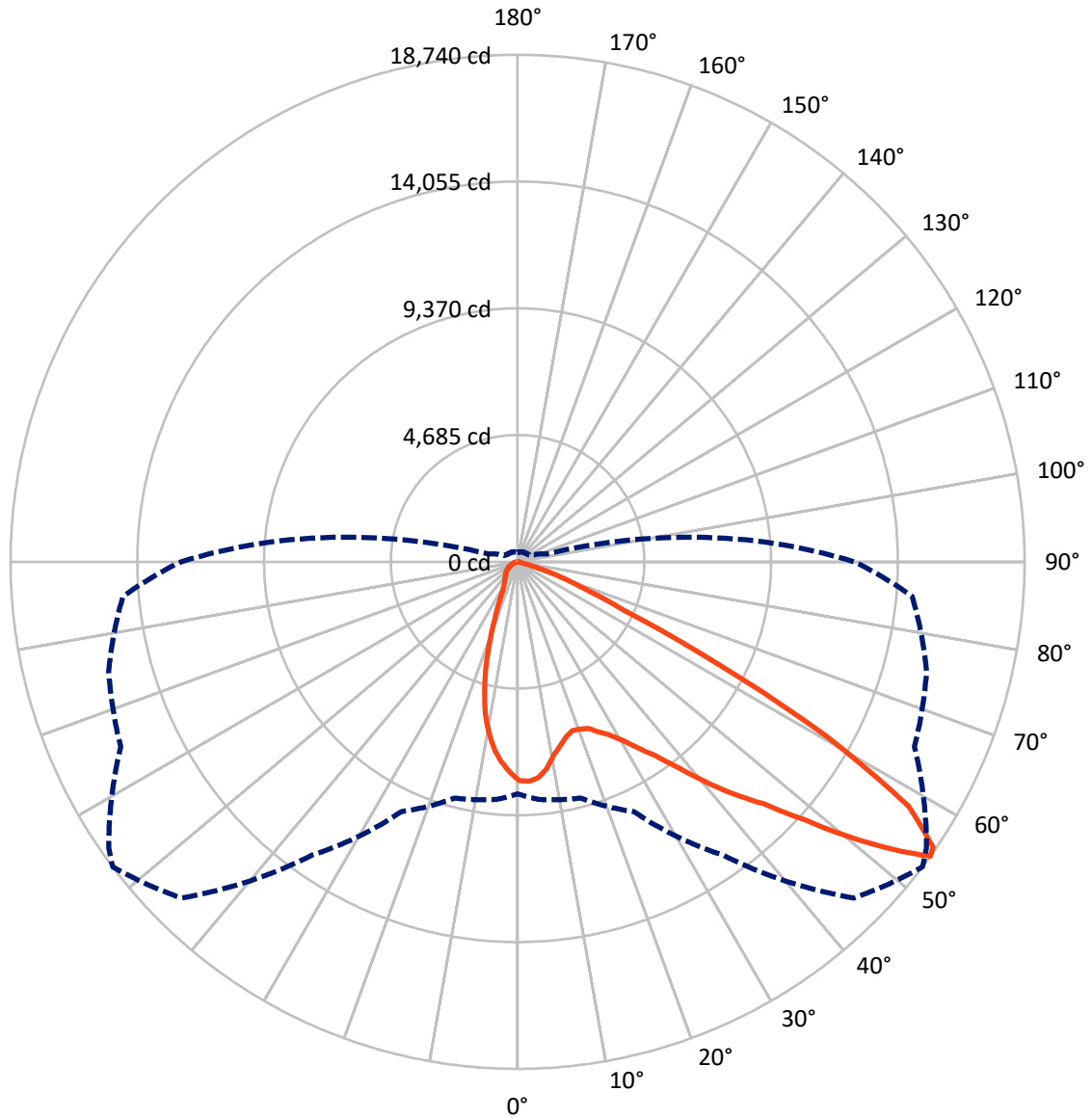
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

REPORT NUMBER: P651449
CATALOG NUMBER: GALN-SA6D-840-U-SL2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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 CATALOG NUMBER: GALN-SA6D-840-U-SL2-GRSBK

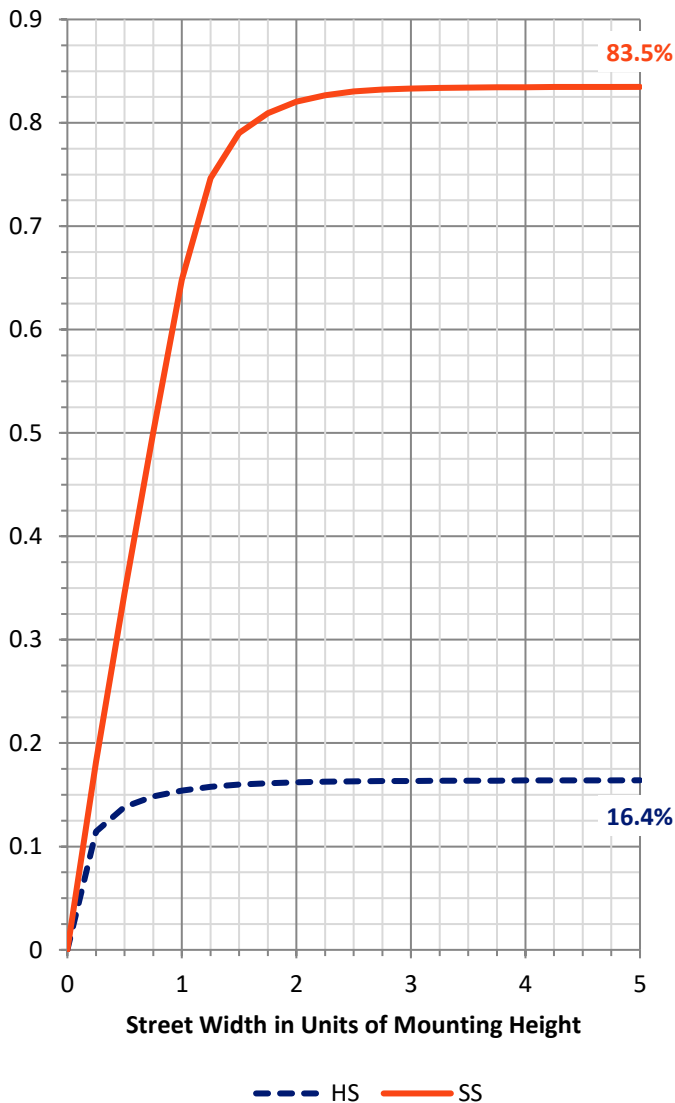
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3725.8	0.0	3725.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18792.9	0.0	18792.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	22518.6	0.0	22518.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.0	3.1
10°-20°	1591.0	7.1
20°-30°	2261.2	10.0
30°-40°	3489.6	15.5
40°-50°	5471.4	24.3
50°-60°	6355.8	28.2
60°-70°	2401.6	10.7
70°-80°	228.4	1.0
80°-90°	25.7	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°	22518.6	100.0
0°-180°	22518.6	100.0

Coefficient of Utilization



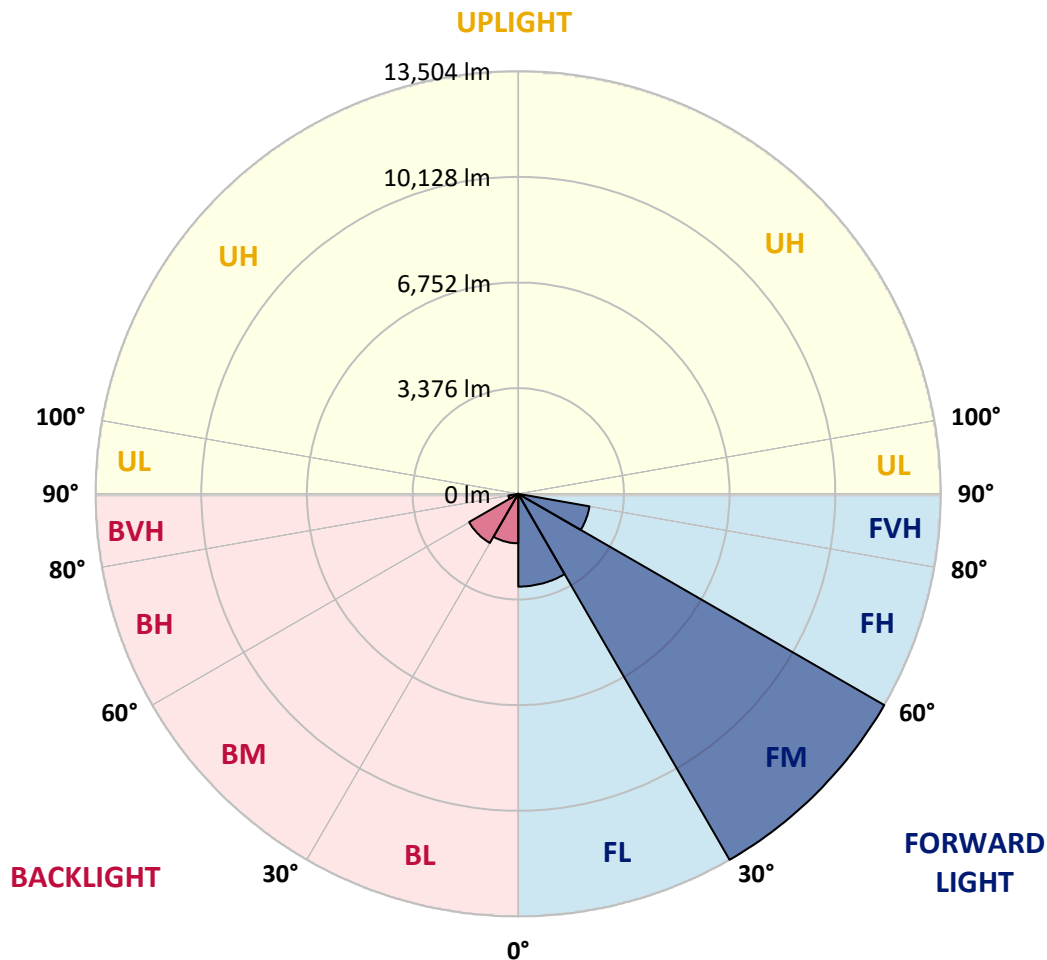
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 CATALOG NUMBER: GALN-SA6D-840-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2965.1	13.2			
FM (30°-60°)	13503.7	60.0			
FH (60°-80°)	2310.7	10.3			G2/5000
FVH (80°-90°)	13.3	0.1			G1/100
BL (0°-30°)	1581.1	7.0	B3/2500		
BM (30°-60°)	1813.1	8.1	B2/2500		
BH (60°-80°)	319.2	1.4	B1/500		G1/500
BVH (80°-90°)	12.4	0.1			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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CATALOG NUMBER: GALN-SA6D-840-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8088.3	8088.3	8088.3	8088.3	8088.3	8088.3	8088.3	8088.3	8088.3	8088.3	8088.3
2.5°	8046.4	7975.0	8046.4	8054.8	8105.1	8151.2	8121.9	8189.0	8151.2	8109.3	8096.7
5°	7396.1	7492.6	7496.8	7647.8	7614.2	7891.1	8012.8	7979.2	8184.8	8172.2	8142.8
7.5°	6812.9	6775.2	6825.6	7001.7	7224.1	7542.9	7719.1	7714.9	8008.6	8218.3	8197.4
10°	6271.8	6267.6	6372.5	6510.9	6699.7	7035.3	7278.6	7400.3	7857.5	8176.4	8222.5
12.5°	5906.8	5890.0	6003.3	6116.6	6414.4	6674.5	6985.0	7043.7	7568.1	8029.6	8105.1
15°	5667.7	5705.4	5713.8	5932.0	6120.8	6464.8	6708.1	6829.8	7433.9	7912.1	8201.6
17.5°	5625.7	5676.1	5680.3	5860.7	6062.0	6351.5	6565.4	6729.1	7320.6	7970.8	8205.8
20°	5709.6	5680.3	5705.4	5818.7	6015.9	6292.8	6603.2	6657.8	7282.8	8000.2	8251.9
22.5°	5948.7	5940.4	5877.4	5969.8	6108.2	6397.7	6691.3	6775.2	7391.9	8151.2	8289.7
25°	6213.1	6259.2	6200.4	6187.9	6284.4	6569.6	6959.8	7068.9	7756.9	8424.0	8407.1
27.5°	6708.1	6662.0	6662.0	6603.2	6578.0	6716.5	7249.3	7429.6	8163.8	8776.3	8541.4
30°	7182.1	7232.5	7194.8	7215.7	7047.9	7035.3	7660.4	7882.8	8885.4	9313.3	8826.6
32.5°	7933.1	7866.0	7928.9	7874.4	7652.0	7425.4	8218.3	8449.1	9758.0	9930.0	9254.5
35°	8558.2	8528.8	8797.3	8788.9	8428.1	8205.8	8809.9	9153.9	10366.3	10668.3	9758.0
37.5°	9447.5	9393.0	9699.3	9846.1	9523.1	9191.6	9657.3	10055.8	10932.7	11259.9	10274.0
40°	10362.1	10500.6	10911.6	11155.0	10811.0	10370.5	10693.5	10815.2	11310.2	11645.8	10626.4
42.5°	11519.9	11721.4	12140.8	12350.6	12321.2	11843.0	11746.5	11742.3	11582.9	11536.8	10886.5
45°	12631.7	12556.2	13202.3	13659.5	14028.7	13890.2	12761.8	12635.9	12015.0	11700.3	10953.6
47.5°	13118.3	13093.2	13533.6	14347.5	15606.1	15778.1	14238.5	13751.8	12744.9	12388.4	11318.6
50°	12489.0	12619.1	13055.4	13957.4	15887.2	17200.2	16050.7	15396.3	13596.6	13227.4	12182.8
52.5°	10433.4	10521.5	10936.9	12082.1	14930.6	18039.3	17787.6	17410.0	15161.4	14548.9	13688.9
54°	8579.1	8814.1	9040.6	10190.1	13227.4	17573.6	18739.8	18450.4	16180.8	15648.0	14637.0
55°	7471.6	7610.0	7773.7	8919.0	12048.6	16784.9	18630.8	18656.0	16864.7	15992.0	15274.7
57.5°	5457.9	5554.4	5386.6	5894.2	8272.9	13630.2	17040.8	17720.5	17787.6	16508.1	15664.8
60°	4170.0	4212.0	4023.2	4102.9	5143.3	9355.3	13181.2	13999.3	16046.5	14427.2	13269.4
62.5°	3234.5	3242.9	3238.7	3377.1	3544.9	5504.1	8243.6	8969.3	11062.7	10244.6	9011.2
65°	2382.9	2345.1	2412.2	2831.7	3024.7	3461.1	4342.0	4870.6	6011.7	5076.2	3628.8
67.5°	1543.8	1556.4	1623.6	2105.9	2592.6	2655.5	2672.4	2630.4	2634.6	1451.6	910.4
70°	927.1	948.1	927.1	1191.4	1854.2	1904.6	1741.0	1699.1	1325.7	344.0	339.8
72.5°	549.6	520.2	465.7	511.8	772.0	922.9	830.7	826.5	520.2	201.3	201.3
75°	230.8	209.7	172.0	155.2	205.5	197.2	197.2	176.2	138.4	134.2	125.8
77.5°	46.2	46.2	33.6	37.8	50.4	58.7	71.3	71.3	83.9	83.9	79.7
80°	0.0	4.2	12.6	25.1	37.8	54.5	62.9	62.9	71.3	71.3	58.7
82.5°	0.0	4.2	12.6	25.1	33.6	50.4	62.9	62.9	71.3	75.5	62.9
85°	0.0	4.2	12.6	20.9	33.6	42.0	42.0	37.8	29.4	25.1	16.8
87.5°	0.0	0.0	4.2	8.4	4.2	8.4	8.4	8.4	8.4	8.4	8.4
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°	8088.3	8088.3	8088.3	8088.3	8088.3	8088.3	8088.3	8088.3	8088.3	8088.3	8088.3
2.5°	8126.1	8121.9	8021.2	7857.5	7819.8	7681.4	7664.6	7580.7	7626.9	7471.6	7454.9
5°	8059.0	8008.6	7886.9	7782.0	7475.8	7257.7	7085.7	6875.9	6754.2	6775.2	6695.5
7.5°	8155.4	8025.4	7811.5	7446.5	7073.1	6691.3	6485.7	6057.8	5902.6	5671.9	5638.3
10°	8054.8	7958.2	7626.9	7022.8	6506.7	5957.1	5474.7	5000.7	4639.9	4484.6	4451.1
12.5°	8046.4	7878.6	7324.8	6653.6	5906.8	5118.2	4417.5	3826.0	3469.4	3268.0	3221.9
15°	7916.3	7714.9	6985.0	6083.0	5051.0	4069.3	3305.8	2735.3	2462.5	2345.1	2378.7
17.5°	7928.9	7626.9	6645.2	5478.9	4207.8	2987.0	2257.0	1963.3	1892.0	1921.4	1921.4
20°	7916.3	7429.6	6234.0	4782.5	3221.9	2072.4	1657.1	1552.2	1598.4	1690.7	1669.7
22.5°	7849.2	7337.4	5856.5	4048.3	2370.3	1535.4	1329.9	1334.1	1405.4	1518.7	1543.8
25°	7899.5	7131.8	5378.2	3305.8	1728.4	1225.0	1153.7	1183.0	1258.6	1342.5	1359.2
27.5°	7861.8	6985.0	4879.0	2567.5	1262.8	1053.0	1048.8	1082.4	1115.9	1178.8	1178.8
30°	7903.7	6850.7	4388.2	1908.8	1040.4	964.9	948.1	973.3	1006.8	1019.5	1015.3
32.5°	8059.0	6750.0	3821.8	1426.3	918.7	880.9	880.9	880.9	876.8	893.6	897.8
35°	8398.7	6766.9	3322.6	1103.3	839.1	809.6	797.1	780.3	772.0	780.3	784.5
37.5°	8767.9	6758.4	2806.6	939.7	780.3	755.1	725.8	700.6	696.4	704.8	692.2
40°	8931.5	6838.2	2328.3	843.3	725.8	696.4	650.3	629.2	633.4	641.9	633.4
42.5°	9153.9	6863.3	2017.9	767.7	675.4	629.2	599.9	574.7	570.5	583.1	578.9
45°	9149.7	6720.7	1690.7	725.8	629.2	578.9	541.2	520.2	520.2	528.6	532.8
47.5°	9418.2	6699.7	1451.6	688.0	595.7	545.4	499.2	482.5	478.3	478.3	469.9
50°	10043.2	6993.3	1267.0	646.1	553.8	507.6	469.9	448.9	432.1	423.7	419.5
52.5°	11264.0	7907.9	1124.3	595.7	507.6	469.9	436.3	419.5	398.5	377.5	373.4
54°	12447.1	8851.9	1115.9	553.8	469.9	444.7	415.3	407.0	381.7	352.4	344.0
55°	12979.9	9401.4	1145.3	520.2	444.7	427.9	402.8	394.3	369.2	335.6	331.4
57.5°	13420.3	9615.3	1128.5	432.1	402.8	398.5	377.5	365.0	335.6	289.5	281.1
60°	10802.6	7270.3	809.6	381.7	369.2	360.8	344.0	335.6	297.9	247.5	243.3
62.5°	6825.6	4182.6	516.0	335.6	323.0	310.4	289.5	281.1	247.5	197.2	184.6
65°	2907.3	1732.6	348.2	297.9	276.9	255.9	239.1	226.6	197.2	146.8	142.6
67.5°	755.1	616.7	289.5	260.1	230.8	201.3	188.8	167.8	134.2	100.7	96.5
70°	339.8	310.4	243.3	218.2	184.6	155.2	138.4	117.5	88.1	67.1	62.9
72.5°	201.3	197.2	184.6	163.6	138.4	117.5	100.7	79.7	58.7	37.8	37.8
75°	125.8	121.7	125.8	113.3	96.5	88.1	75.5	54.5	33.6	16.8	16.8
77.5°	75.5	75.5	75.5	71.3	67.1	67.1	54.5	33.6	16.8	4.2	4.2
80°	58.7	58.7	62.9	58.7	58.7	58.7	46.2	25.1	8.4	0.0	0.0
82.5°	58.7	62.9	71.3	67.1	58.7	50.4	42.0	25.1	8.4	0.0	0.0
85°	16.8	12.6	20.9	29.4	42.0	37.8	29.4	20.9	8.4	0.0	0.0
87.5°	8.4	8.4	8.4	8.4	4.2	4.2	4.2	4.2	4.2	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)