

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: P529508

Luminaire Tested: **GALN-SA4C-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18697 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 213
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

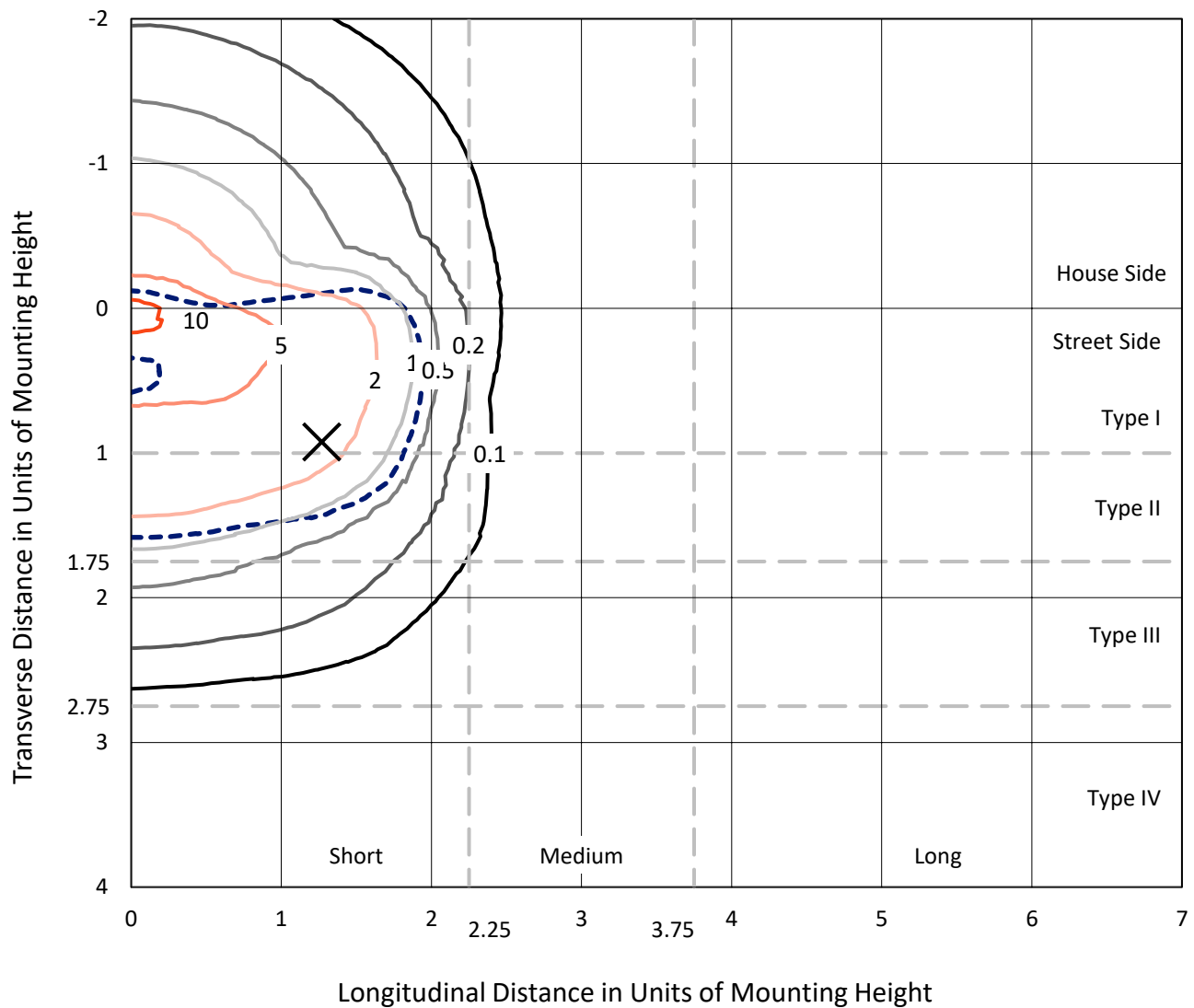


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Iso-Footcandle Lines of Horizontal Illumination

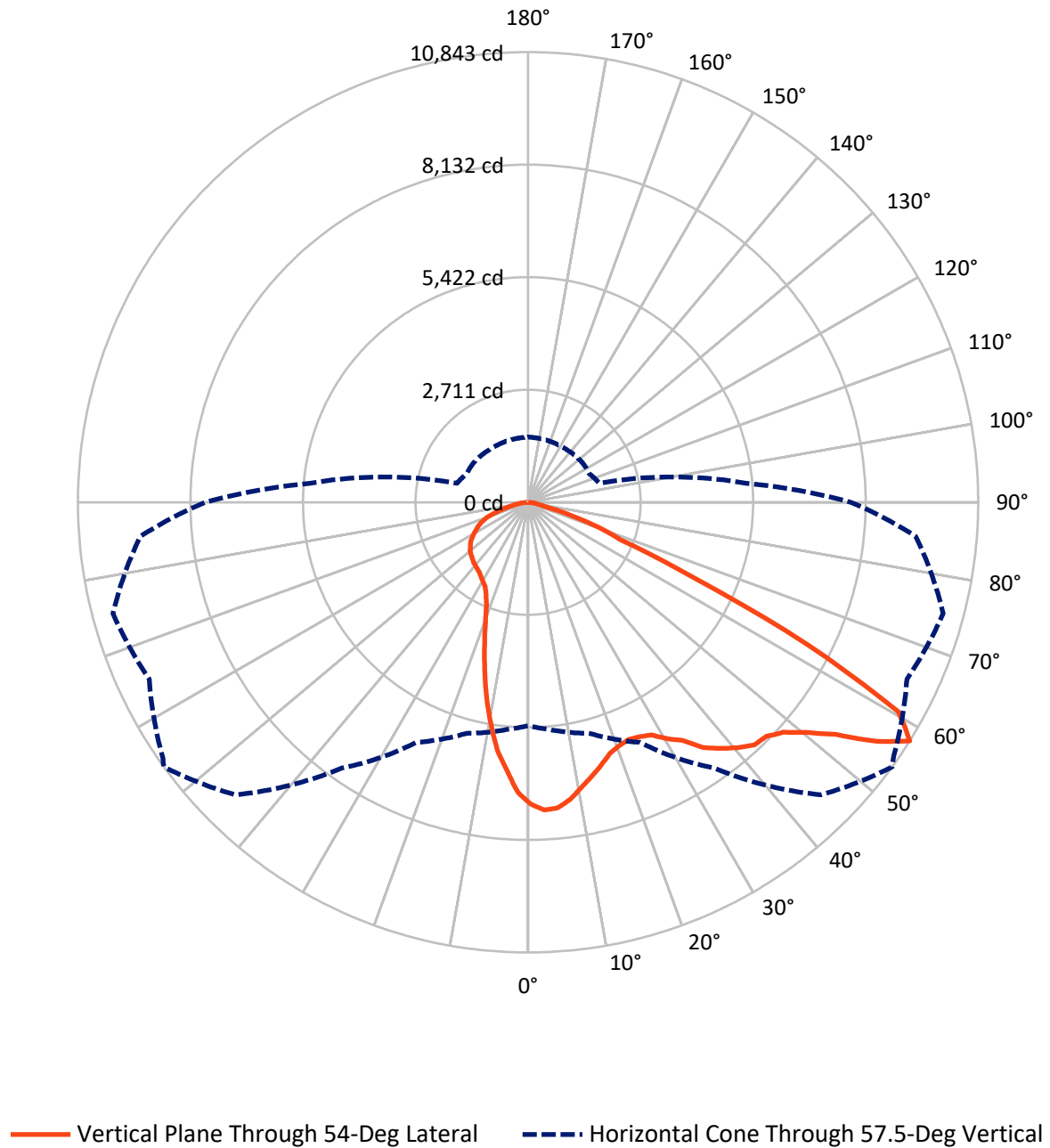
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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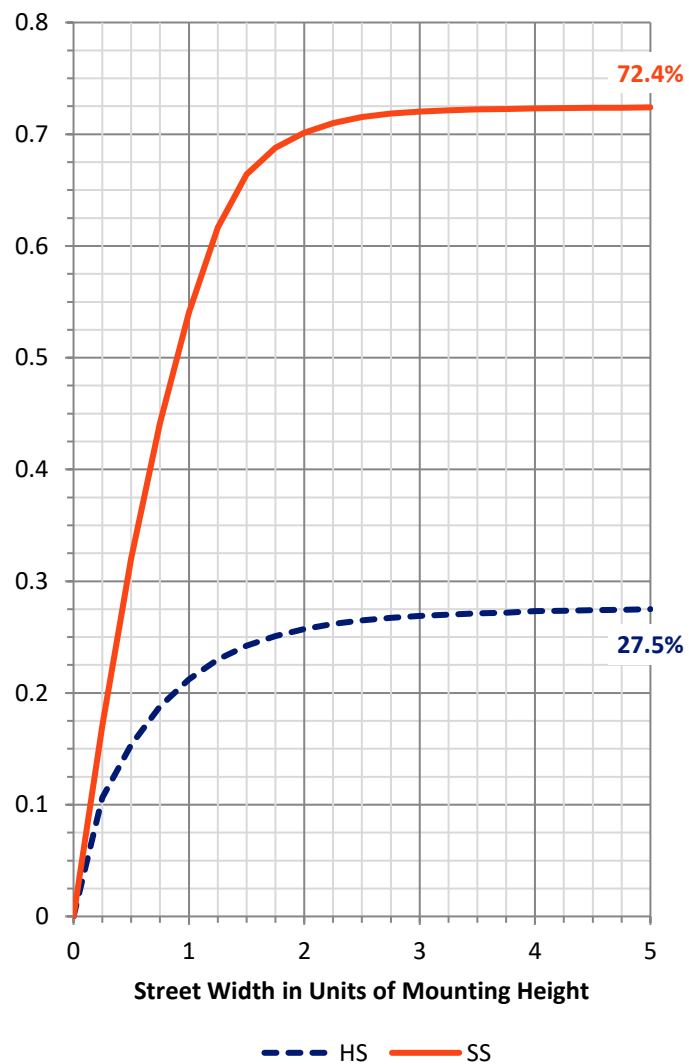
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5172.6	0.0	5172.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	13524.4	0.0	13524.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	18697.0	0.0	18697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.7	3.4
10°-20°	1451.1	7.8
20°-30°	2038.8	10.9
30°-40°	2850.3	15.2
40°-50°	3858.8	20.6
50°-60°	4700.2	25.1
60°-70°	2448.1	13.1
70°-80°	627.3	3.4
80°-90°	95.7	0.5
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°	18697.0	100.0
0°-180°	18697.0	100.0

Coefficient of Utilization



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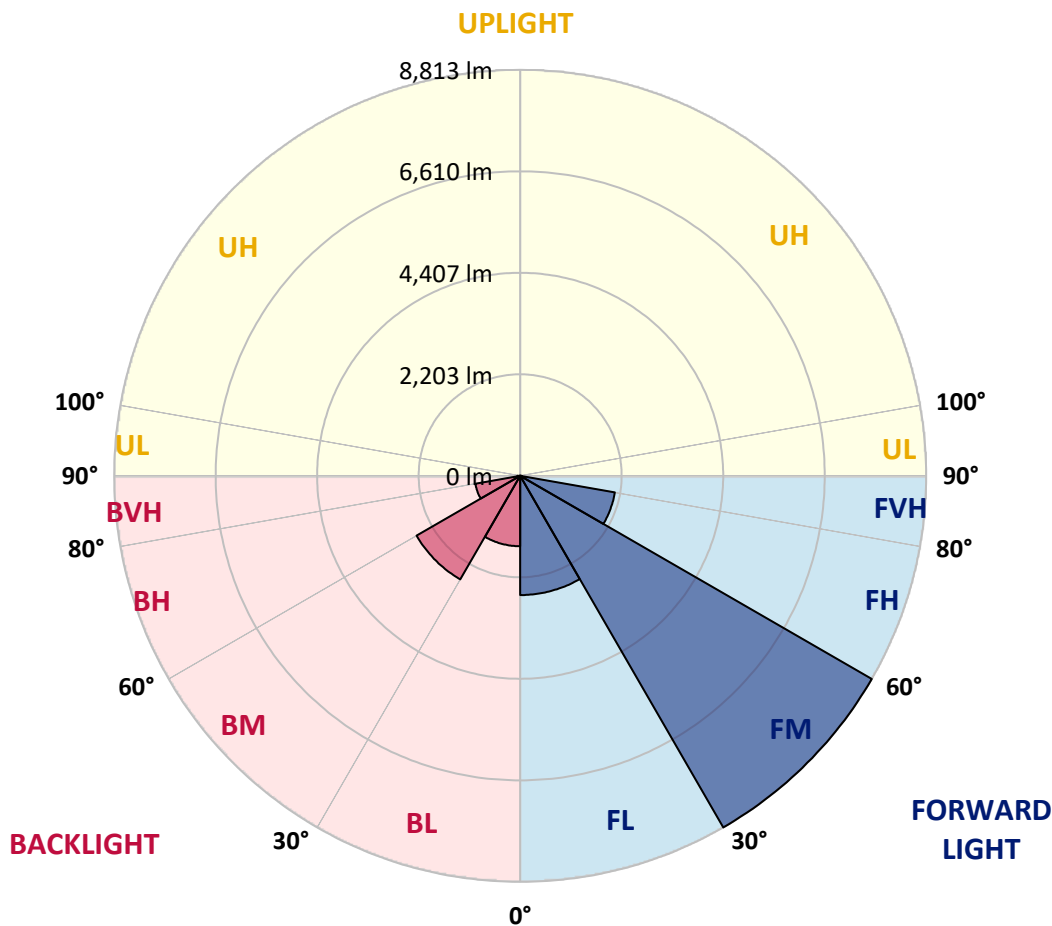
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2587.9	13.8			
FM	(30°-60°)	8813.2	47.1			
FH	(60°-80°)	2087.1	11.2			G2/5000
FVH	(80°-90°)	36.2	0.2			G1/100
BL	(0°-30°)	1528.8	8.2	B3/2500		
BM	(30°-60°)	2596.1	13.9	B3/5000		
BH	(60°-80°)	988.2	5.3	B2/1000		G2/1000
BVH	(80°-90°)	59.5	0.3			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°	7267.3	7267.3	7267.3	7267.3	7267.3	7267.3	7267.3	7267.3	7267.3	7267.3	7267.3
2.5°	7474.0	7445.1	7450.0	7488.4	7440.3	7421.1	7421.1	7327.4	7334.6	7269.7	7252.9
5°	7301.0	7233.7	7279.3	7337.0	7346.6	7365.8	7397.1	7373.1	7305.8	7236.1	7123.1
7.5°	6849.2	6909.2	6926.1	6966.9	7053.4	7132.7	7231.3	7164.0	7161.6	7091.9	7024.6
10°	6452.6	6416.6	6507.9	6568.0	6712.2	6844.3	6995.7	6988.5	7024.6	6945.3	6829.9
12.5°	6058.5	6029.7	6072.9	6209.9	6411.8	6604.0	6784.3	6717.0	6909.2	6894.8	6647.3
15°	5640.3	5662.0	5724.4	5851.8	6116.2	6346.9	6575.2	6577.6	6748.2	6805.9	6474.3
17.5°	5347.1	5323.1	5402.4	5592.3	5827.8	6104.2	6363.7	6416.6	6678.5	6712.2	6421.4
20°	5128.5	5162.1	5265.4	5361.6	5633.1	5967.2	6260.4	6279.6	6664.1	6755.4	6337.3
22.5°	5075.6	5056.4	5090.0	5246.2	5469.7	5832.6	6205.1	6277.2	6661.7	6741.0	6178.7
25°	5020.3	5082.8	5080.4	5236.6	5400.0	5724.4	6250.8	6330.1	6789.1	6815.5	6200.3
27.5°	5145.3	5138.1	5205.4	5217.4	5419.2	5753.3	6346.9	6407.0	7000.6	6978.9	6217.1
30°	5270.2	5234.2	5275.0	5416.8	5510.6	5919.1	6611.2	6606.4	7274.5	7260.1	6270.0
32.5°	5424.0	5407.2	5433.7	5558.6	5717.2	6140.2	6834.7	6976.5	7553.3	7644.6	6452.6
35°	5452.9	5522.6	5585.1	5753.3	5979.2	6498.3	7255.3	7373.1	7875.3	8161.3	6801.1
37.5°	5635.5	5662.0	5808.6	6106.6	6313.2	6976.5	7522.1	7596.5	8168.5	8492.9	7168.8
40°	5830.2	5861.4	6082.5	6394.9	6678.5	7288.9	7772.0	7796.0	8262.2	8747.7	7409.1
42.5°	6094.5	6123.4	6342.1	6733.8	7113.5	7555.7	7993.1	8019.5	8255.0	9040.9	7791.2
45°	6368.5	6438.2	6695.3	7139.9	7481.2	7868.1	8043.5	8151.7	8322.3	9302.8	8101.2
47.5°	6753.0	6817.9	7029.4	7464.4	7863.3	8142.1	8276.7	8382.4	8483.3	9531.1	8300.7
50°	7161.6	7173.6	7430.7	7824.9	8118.0	8452.1	8711.6	8747.7	8694.8	9795.5	8639.5
52.5°	7462.0	7500.4	7699.9	8084.4	8521.8	8932.7	9288.4	9326.9	9223.5	9894.0	8754.9
55°	6964.5	6942.9	7267.3	7779.2	8793.3	9648.9	10165.6	10194.4	9608.0	10199.2	9132.2
57.5°	5383.2	5486.5	5762.9	6380.5	7812.8	9966.1	10843.3	10739.9	10069.5	10353.0	9372.5
60°	3912.4	3888.4	4073.4	4486.8	5887.9	8589.1	10252.1	10357.8	9692.1	9331.7	7728.7
62.5°	3186.7	3153.0	3167.4	3181.9	3799.5	5700.4	7589.3	7586.9	7464.4	6707.4	5212.6
65°	2547.4	2626.7	2633.9	2742.1	2821.4	3405.3	4397.9	4633.4	4035.0	3309.2	2400.8
67.5°	1920.2	1891.3	1987.5	2372.0	2521.0	2458.5	2400.8	2427.2	1725.5	1244.9	1172.8
70°	1131.9	1119.9	1235.3	1653.4	2076.4	1953.8	1809.6	1812.0	1184.8	870.0	968.5
72.5°	620.0	617.6	641.7	838.7	1180.0	1225.6	1086.3	1119.9	706.5	704.1	757.0
75°	346.1	338.9	331.6	370.1	425.4	449.4	459.0	463.8	485.4	543.1	564.8
77.5°	127.4	122.6	122.6	141.8	180.2	225.9	286.0	290.8	343.7	394.1	415.8
80°	43.3	48.1	64.9	88.9	120.2	161.0	194.7	199.5	242.7	276.4	283.6
82.5°	26.4	28.8	43.3	62.5	86.5	113.0	144.2	146.6	180.2	201.9	211.5
85°	12.0	14.4	24.0	38.5	55.3	74.5	76.9	76.9	74.5	76.9	72.1
87.5°	0.0	0.0	4.8	4.8	4.8	7.2	9.6	7.2	12.0	14.4	14.4
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°	7267.3	7267.3	7267.3	7267.3	7267.3	7267.3	7267.3	7267.3	7267.3	7267.3	7267.3
2.5°	7202.4	7176.0	7094.3	7022.2	7000.6	6904.4	6762.6	6779.5	6676.1	6724.2	6673.7
5°	7103.9	7015.0	6805.9	6717.0	6483.9	6378.1	6306.0	6125.8	6041.7	6024.8	5952.8
7.5°	6851.6	6796.3	6534.3	6294.0	6046.5	5835.0	5563.4	5378.4	5246.2	5210.2	5104.4
10°	6652.1	6529.5	6166.6	5801.4	5448.1	5080.4	4727.1	4450.7	4316.2	4160.0	4107.1
12.5°	6455.0	6270.0	5779.7	5311.1	4854.5	4390.7	3962.9	3626.4	3333.3	3263.6	3239.5
15°	6332.5	6010.4	5433.7	4868.9	4220.0	3614.4	3186.7	2965.6	2785.3	2710.8	2763.7
17.5°	6171.4	5796.5	5102.0	4349.8	3636.1	3078.5	2720.4	2583.5	2518.6	2525.8	2504.1
20°	5969.6	5594.7	4667.0	3878.8	3114.6	2670.0	2465.7	2415.2	2424.8	2441.7	2434.5
22.5°	5825.4	5349.5	4352.2	3398.1	2691.6	2444.1	2360.0	2323.9	2355.1	2369.6	2357.5
25°	5714.8	5140.5	3970.1	2972.8	2446.5	2316.7	2278.2	2275.8	2323.9	2343.1	2331.1
27.5°	5613.9	4945.8	3590.4	2648.3	2283.1	2218.2	2206.1	2235.0	2266.2	2285.5	2302.3
30°	5553.8	4796.8	3234.7	2376.8	2201.3	2170.1	2148.5	2174.9	2191.7	2211.0	2201.3
32.5°	5611.5	4691.1	2891.1	2223.0	2134.1	2102.8	2131.6	2114.8	2143.7	2160.5	2134.1
35°	5791.7	4597.3	2645.9	2141.3	2057.1	2069.2	2074.0	2066.8	2078.8	2064.4	2095.6
37.5°	5969.6	4563.7	2420.0	2071.6	2021.1	2021.1	2016.3	2001.9	2025.9	2021.1	2035.5
40°	6195.5	4585.3	2227.8	1997.1	1987.5	1982.6	1963.4	1961.0	1951.4	1953.8	1958.6
42.5°	6392.5	4633.4	2117.2	1949.0	1956.2	1965.8	1929.8	1900.9	1913.0	1888.9	1888.9
45°	6601.6	4676.6	2018.7	1915.4	1908.1	1905.7	1876.9	1860.1	1850.5	1852.9	1874.5
47.5°	6930.9	4739.1	1944.2	1869.7	1874.5	1838.5	1831.2	1809.6	1819.2	1833.6	1836.1
50°	7164.0	4871.3	1886.5	1816.8	1833.6	1809.6	1766.4	1756.7	1756.7	1780.8	1776.0
52.5°	7327.4	5056.4	1831.2	1759.2	1766.4	1747.1	1732.7	1711.1	1696.7	1730.3	1747.1
55°	7827.3	5364.0	1816.8	1711.1	1708.7	1689.5	1663.0	1641.4	1634.2	1639.0	1672.6
57.5°	7779.2	5267.8	1771.2	1627.0	1622.2	1595.7	1569.3	1562.1	1559.7	1564.5	1574.1
60°	6315.6	3890.8	1581.3	1530.8	1523.6	1518.8	1492.4	1463.6	1449.1	1463.6	1451.5
62.5°	4179.2	2605.1	1393.9	1415.5	1420.3	1408.3	1365.0	1336.2	1341.0	1357.8	1331.4
65°	2052.3	1530.8	1264.1	1321.8	1326.6	1292.9	1252.1	1218.4	1201.6	1216.0	1204.0
67.5°	1172.8	1170.4	1158.3	1218.4	1216.0	1182.4	1117.5	1088.7	1059.8	1064.6	1057.4
70°	994.9	1014.2	1038.2	1074.2	1071.8	1033.4	956.5	934.8	894.0	889.2	877.2
72.5°	783.4	817.1	870.0	896.4	874.8	826.7	776.2	740.2	704.1	682.5	689.7
75°	581.6	629.6	658.5	675.3	641.7	615.2	574.4	531.1	487.9	468.6	461.4
77.5°	423.0	437.4	463.8	475.8	454.2	427.8	403.7	360.5	319.6	293.2	286.0
80°	295.6	305.2	324.4	324.4	324.4	312.4	281.2	237.9	211.5	187.5	182.6
82.5°	206.7	216.3	235.5	225.9	223.5	209.1	189.9	156.2	127.4	110.5	105.7
85°	72.1	79.3	96.1	115.4	122.6	120.2	108.1	86.5	67.3	55.3	50.5
87.5°	16.8	16.8	19.2	16.8	16.8	19.2	16.8	16.8	16.8	12.0	9.6
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)