

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: P529976

Luminaire Tested: **GALN-SA5A-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529976
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-SA5A-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA 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: 15396 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

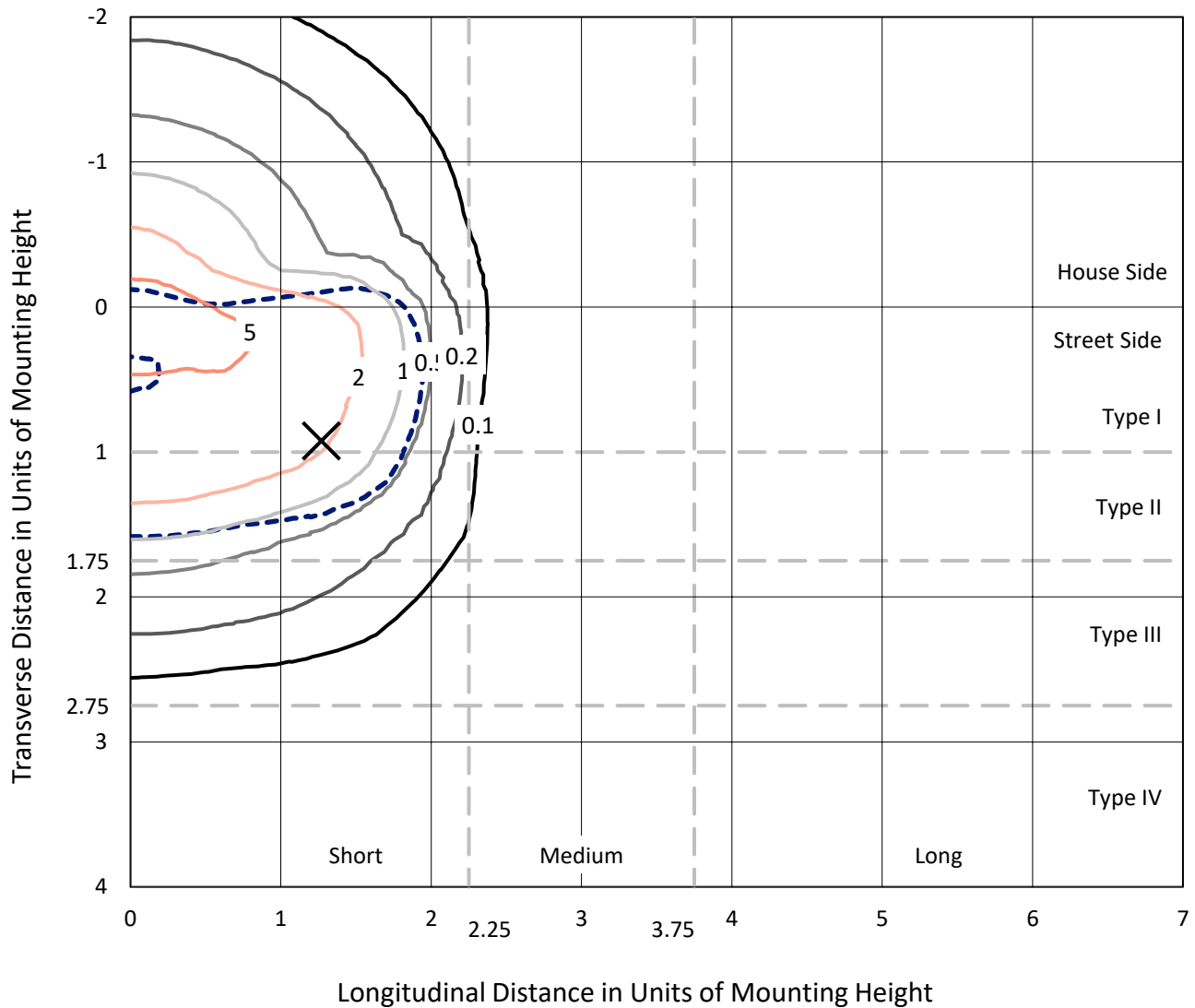
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

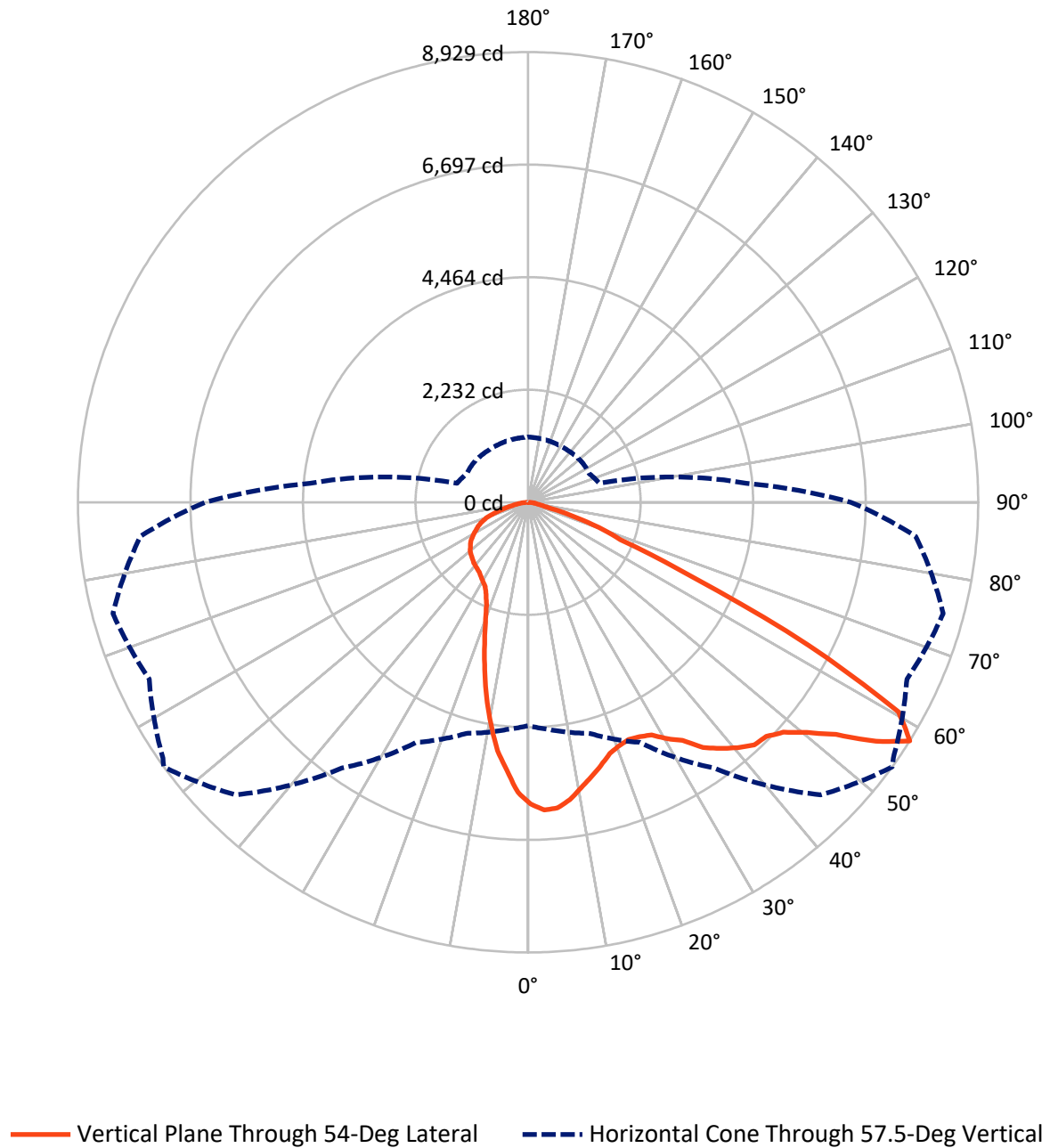
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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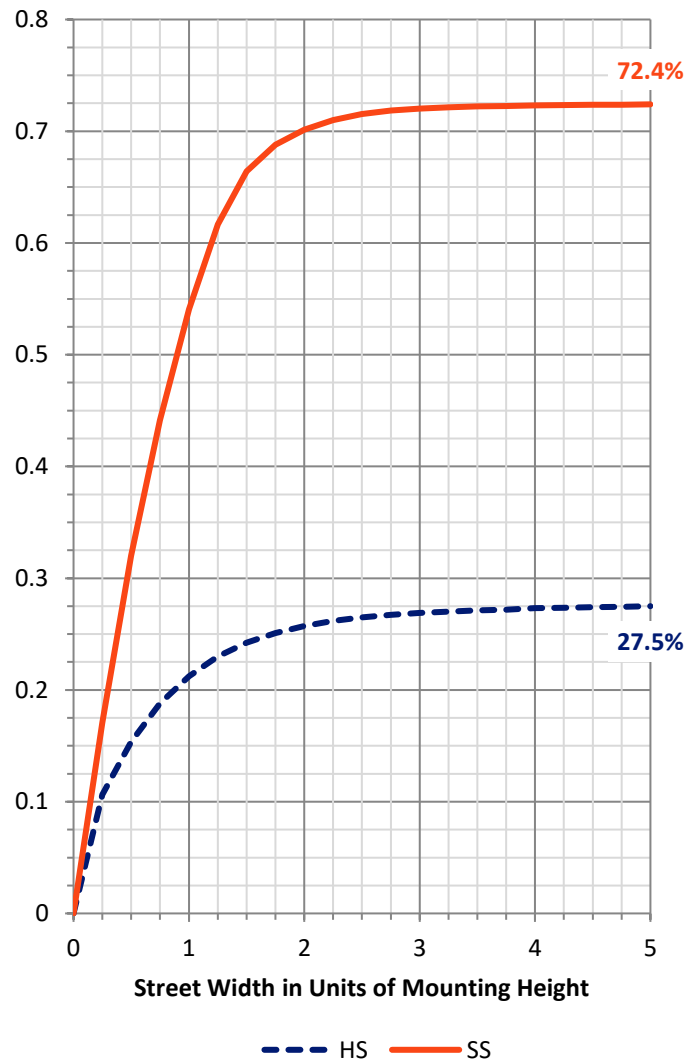
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4259.4	0.0	4259.4
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	11136.6	0.0	11136.6
	% Fixture	72.3	0.0	72.3
Total	Lumens	15396.0	0.0	15396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.1	3.4
10°-20°	1194.9	7.8
20°-30°	1678.9	10.9
30°-40°	2347.1	15.2
40°-50°	3177.5	20.6
50°-60°	3870.3	25.1
60°-70°	2015.8	13.1
70°-80°	516.5	3.4
80°-90°	78.8	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°	15396.0	100.0
0°-180°	15396.0	100.0

Coefficient of Utilization



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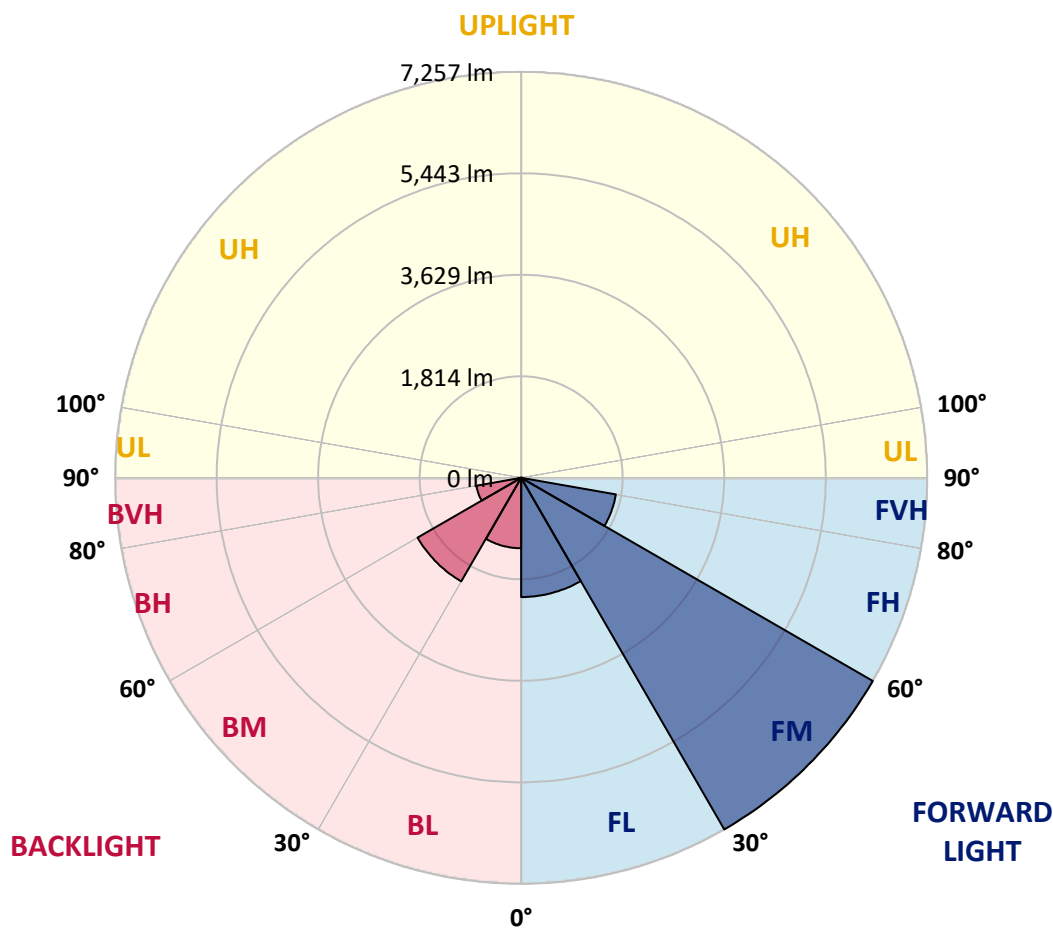
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2131.0	13.8			
FM	(30°-60°)	7257.2	47.1			
FH	(60°-80°)	1718.6	11.2			G1/1800
FVH	(80°-90°)	29.8	0.2			G1/100
BL	(0°-30°)	1258.9	8.2	B3/2500		
BM	(30°-60°)	2137.8	13.9	B2/2500		
BH	(60°-80°)	813.7	5.3	B2/1000		G2/1000
BVH	(80°-90°)	49.0	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°	5984.2	5984.2	5984.2	5984.2	5984.2	5984.2	5984.2	5984.2	5984.2	5984.2	5984.2
2.5°	6154.4	6130.7	6134.6	6166.3	6126.7	6110.9	6110.9	6033.7	6039.7	5986.2	5972.4
5°	6012.0	5956.5	5994.1	6041.6	6049.6	6065.4	6091.1	6071.3	6015.9	5958.5	5865.5
7.5°	5639.9	5689.4	5703.2	5736.9	5808.1	5873.4	5954.6	5899.2	5897.2	5839.8	5784.4
10°	5313.4	5283.7	5358.9	5408.4	5527.1	5636.0	5760.6	5754.7	5784.4	5719.1	5624.1
12.5°	4988.9	4965.1	5000.7	5113.5	5279.8	5438.1	5586.5	5531.1	5689.4	5677.5	5473.7
15°	4644.5	4662.3	4713.8	4818.7	5036.3	5226.3	5414.3	5416.3	5556.8	5604.3	5331.2
17.5°	4403.1	4383.3	4448.6	4604.9	4798.9	5026.5	5240.2	5283.7	5499.4	5527.1	5287.7
20°	4223.0	4250.7	4335.8	4415.0	4638.6	4913.7	5155.1	5170.9	5487.5	5562.7	5218.4
22.5°	4179.5	4163.6	4191.3	4320.0	4504.0	4802.8	5109.6	5168.9	5485.6	5550.9	5087.8
25°	4134.0	4185.4	4183.4	4312.1	4446.6	4713.8	5147.2	5212.5	5590.4	5612.2	5105.6
27.5°	4236.9	4230.9	4286.3	4296.2	4462.5	4737.5	5226.3	5275.8	5764.6	5746.8	5119.5
30°	4339.8	4310.1	4343.7	4460.5	4537.7	4874.1	5444.0	5440.0	5990.2	5978.3	5163.0
32.5°	4466.4	4452.6	4474.3	4577.2	4707.8	5056.1	5628.0	5744.8	6219.7	6294.9	5313.4
35°	4490.2	4547.6	4599.0	4737.5	4923.5	5351.0	5974.4	6071.3	6484.9	6720.4	5600.3
37.5°	4640.6	4662.3	4783.0	5028.4	5198.6	5744.8	6194.0	6255.4	6726.3	6993.5	5903.1
40°	4800.9	4826.6	5008.6	5265.9	5499.4	6002.1	6399.8	6419.6	6803.5	7203.3	6101.0
42.5°	5018.5	5042.3	5222.4	5544.9	5857.6	6221.7	6581.9	6603.7	6797.6	7444.7	6415.7
45°	5244.1	5301.5	5513.3	5879.4	6160.4	6479.0	6623.4	6712.5	6853.0	7660.4	6670.9
47.5°	5560.8	5614.2	5788.3	6146.5	6475.0	6704.6	6815.4	6902.5	6985.6	7848.4	6835.2
50°	5897.2	5907.1	6118.8	6443.4	6684.8	6959.9	7173.6	7203.3	7159.7	8066.1	7114.2
52.5°	6144.5	6176.2	6340.5	6657.1	7017.2	7355.6	7648.5	7680.2	7595.1	8147.2	7209.2
55°	5734.9	5717.1	5984.2	6405.8	7240.9	7945.4	8370.8	8394.6	7911.7	8398.5	7519.9
57.5°	4432.8	4517.9	4745.4	5254.0	6433.5	8206.6	8928.9	8843.8	8291.7	8525.2	7717.8
60°	3221.7	3201.9	3354.3	3694.6	4848.3	7072.7	8442.1	8529.1	7981.0	7684.1	6364.2
62.5°	2624.0	2596.3	2608.2	2620.1	3128.7	4694.0	6249.4	6247.4	6146.5	5523.2	4292.3
65°	2097.7	2163.0	2168.9	2257.9	2323.3	2804.1	3621.4	3815.4	3322.6	2725.0	1976.9
67.5°	1581.2	1557.4	1636.6	1953.2	2075.9	2024.4	1976.9	1998.7	1420.9	1025.1	965.7
70°	932.1	922.2	1017.2	1361.5	1709.8	1608.9	1490.1	1492.1	975.6	716.4	797.5
72.5°	510.6	508.6	528.4	690.6	971.6	1009.2	894.5	922.2	581.8	579.8	623.4
75°	285.0	279.0	273.1	304.8	350.3	370.1	378.0	381.9	399.7	447.2	465.0
77.5°	104.9	100.9	100.9	116.8	148.4	186.0	235.5	239.4	283.0	324.5	342.4
80°	35.6	39.6	53.4	73.2	98.9	132.6	160.3	164.3	199.9	227.6	233.5
82.5°	21.8	23.7	35.6	51.5	71.2	93.0	118.7	120.7	148.4	166.2	174.1
85°	9.9	11.9	19.8	31.7	45.5	61.3	63.3	63.3	61.3	63.3	59.4
87.5°	0.0	0.0	4.0	4.0	4.0	5.9	7.9	5.9	9.9	11.9	11.9
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°	5984.2	5984.2	5984.2	5984.2	5984.2	5984.2	5984.2	5984.2	5984.2	5984.2	5984.2
2.5°	5930.8	5909.0	5841.8	5782.4	5764.6	5685.4	5568.7	5582.5	5497.4	5537.0	5495.5
5°	5849.7	5776.5	5604.3	5531.1	5339.1	5252.0	5192.7	5044.3	4975.0	4961.1	4901.8
7.5°	5641.9	5596.4	5380.7	5182.8	4979.0	4804.8	4581.2	4428.8	4320.0	4290.3	4203.2
10°	5477.6	5376.7	5077.9	4777.1	4486.2	4183.4	3892.5	3665.0	3554.1	3425.5	3382.0
12.5°	5315.4	5163.0	4759.3	4373.4	3997.4	3615.5	3263.2	2986.2	2744.8	2687.4	2667.6
15°	5214.4	4949.3	4474.3	4009.3	3475.0	2976.3	2624.0	2442.0	2293.6	2232.2	2275.8
17.5°	5081.9	4773.2	4201.2	3581.8	2994.1	2535.0	2240.1	2127.3	2073.9	2079.8	2062.0
20°	4915.6	4606.9	3843.1	3194.0	2564.7	2198.6	2030.4	1988.8	1996.7	2010.6	2004.6
22.5°	4796.9	4405.1	3583.8	2798.2	2216.4	2012.6	1943.3	1913.6	1939.3	1951.2	1941.3
25°	4705.9	4232.9	3269.2	2447.9	2014.5	1907.7	1876.0	1874.0	1913.6	1929.4	1919.6
27.5°	4622.8	4072.6	2956.5	2180.8	1880.0	1826.5	1816.6	1840.4	1866.1	1882.0	1895.8
30°	4573.3	3949.9	2663.6	1957.2	1812.7	1787.0	1769.2	1790.9	1804.8	1820.6	1812.7
32.5°	4620.8	3862.8	2380.6	1830.5	1757.3	1731.6	1755.3	1741.4	1765.2	1779.0	1757.3
35°	4769.2	3785.7	2178.8	1763.2	1694.0	1703.8	1707.8	1701.9	1711.8	1699.9	1725.6
37.5°	4915.6	3758.0	1992.8	1705.8	1664.3	1664.3	1660.3	1648.4	1668.2	1664.3	1676.1
40°	5101.7	3775.8	1834.5	1644.5	1636.6	1632.6	1616.8	1614.8	1606.9	1608.9	1612.8
42.5°	5263.9	3815.4	1743.4	1604.9	1610.8	1618.8	1589.1	1565.3	1575.2	1555.4	1555.4
45°	5436.1	3851.0	1662.3	1577.2	1571.3	1569.3	1545.5	1531.7	1523.8	1525.7	1543.6
47.5°	5707.2	3902.4	1600.9	1539.6	1543.6	1513.9	1507.9	1490.1	1498.0	1509.9	1511.9
50°	5899.2	4011.3	1553.5	1496.1	1509.9	1490.1	1454.5	1446.6	1446.6	1466.4	1462.4
52.5°	6033.7	4163.6	1507.9	1448.6	1454.5	1438.7	1426.8	1409.0	1397.1	1424.8	1438.7
55°	6445.3	4416.9	1496.1	1409.0	1407.0	1391.2	1369.4	1351.6	1345.7	1349.6	1377.3
57.5°	6405.8	4337.8	1458.5	1339.7	1335.8	1314.0	1292.2	1286.3	1284.3	1288.3	1296.2
60°	5200.6	3203.9	1302.1	1260.6	1254.6	1250.7	1228.9	1205.2	1193.3	1205.2	1195.3
62.5°	3441.3	2145.1	1147.8	1165.6	1169.5	1159.6	1124.0	1100.3	1104.2	1118.1	1096.3
65°	1690.0	1260.6	1040.9	1088.4	1092.4	1064.7	1031.0	1003.3	989.5	1001.3	991.4
67.5°	965.7	963.7	953.8	1003.3	1001.3	973.6	920.2	896.4	872.7	876.7	870.7
70°	819.3	835.1	854.9	884.6	882.6	850.9	787.6	769.8	736.2	732.2	722.3
72.5°	645.1	672.8	716.4	738.1	720.3	680.7	639.2	609.5	579.8	562.0	567.9
75°	478.9	518.5	542.2	556.1	528.4	506.6	473.0	437.3	401.7	385.9	380.0
77.5°	348.3	360.2	381.9	391.8	374.0	352.2	332.5	296.8	263.2	241.4	235.5
80°	243.4	251.3	267.2	267.2	267.2	257.3	231.5	195.9	174.1	154.4	150.4
82.5°	170.2	178.1	193.9	186.0	184.0	172.2	156.3	128.6	104.9	91.0	87.1
85°	59.4	65.3	79.2	95.0	100.9	98.9	89.1	71.2	55.4	45.5	41.6
87.5°	13.9	13.9	15.8	13.9	13.9	15.8	13.9	13.9	13.9	9.9	7.9
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)