

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: P456173

Luminaire Tested: **GALN-SA7B-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31216 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): 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



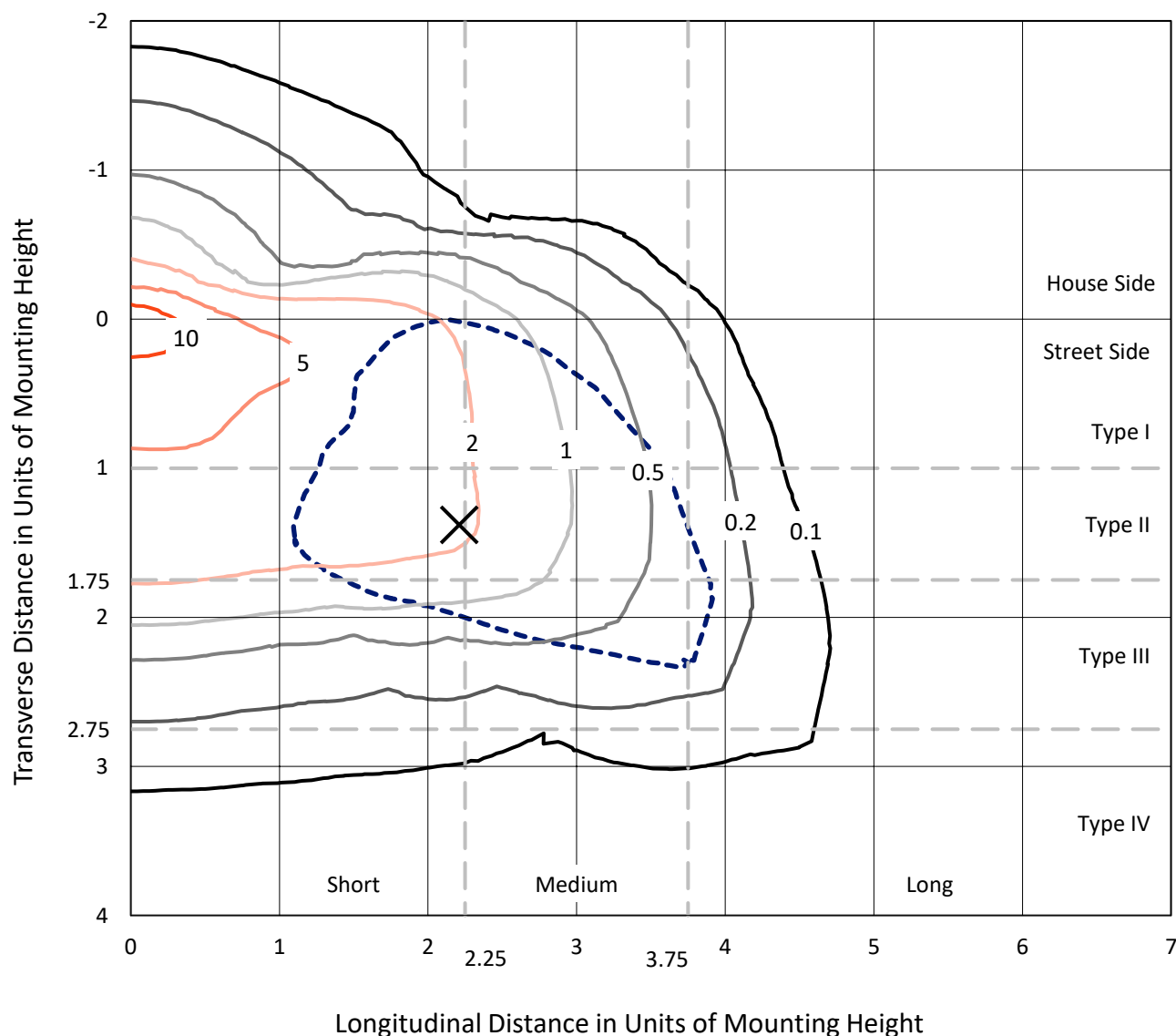
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



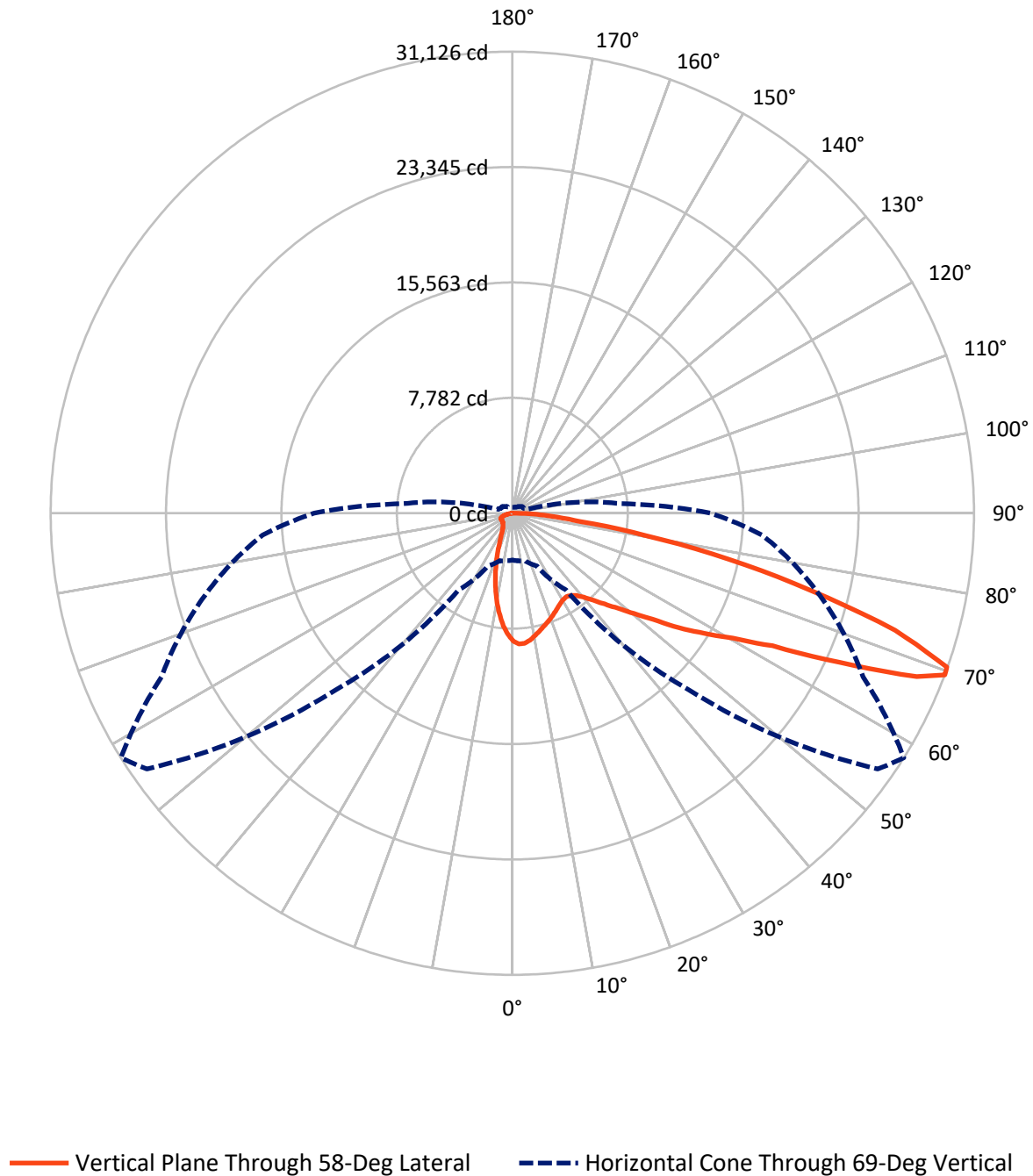
Based on 25 foot mounting height. Maximum calculated value = 13.8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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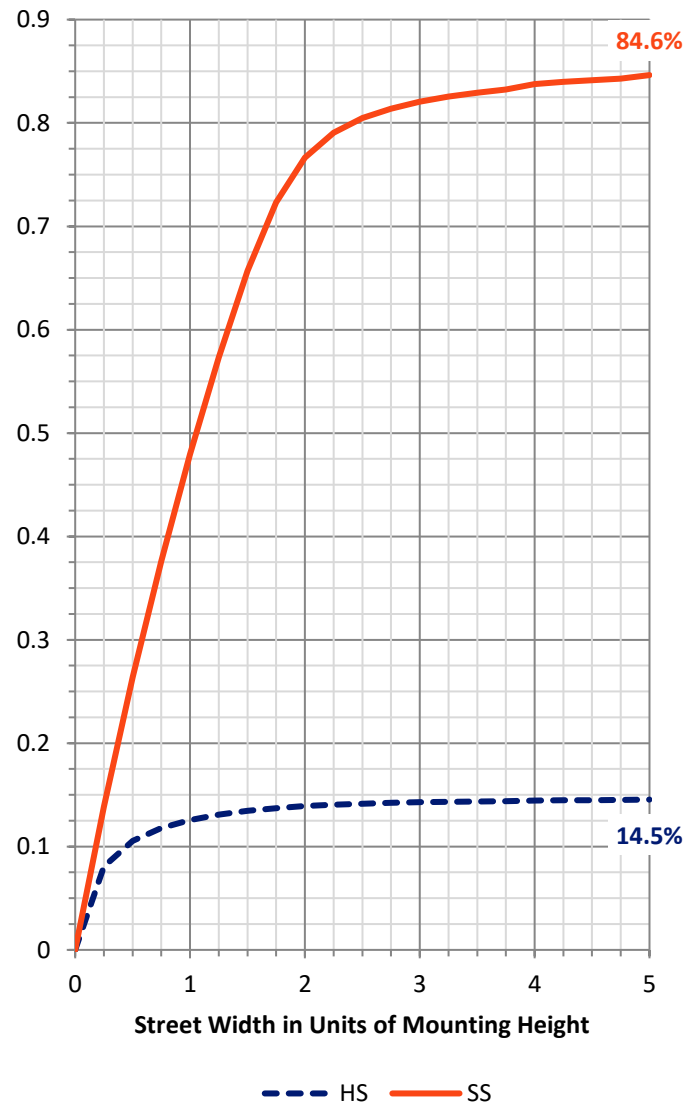
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4574.7	0.0	4574.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	26641.3	0.0	26641.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	31216.0	0.0	31216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.6	2.3
10°-20°	1608.6	5.2
20°-30°	2078.4	6.7
30°-40°	2699.4	8.6
40°-50°	3924.5	12.6
50°-60°	6262.2	20.1
60°-70°	8365.6	26.8
70°-80°	4822.4	15.4
80°-90°	722.3	2.3
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°	31216.0	100.0
0°-180°	31216.0	100.0

Coefficient of Utilization



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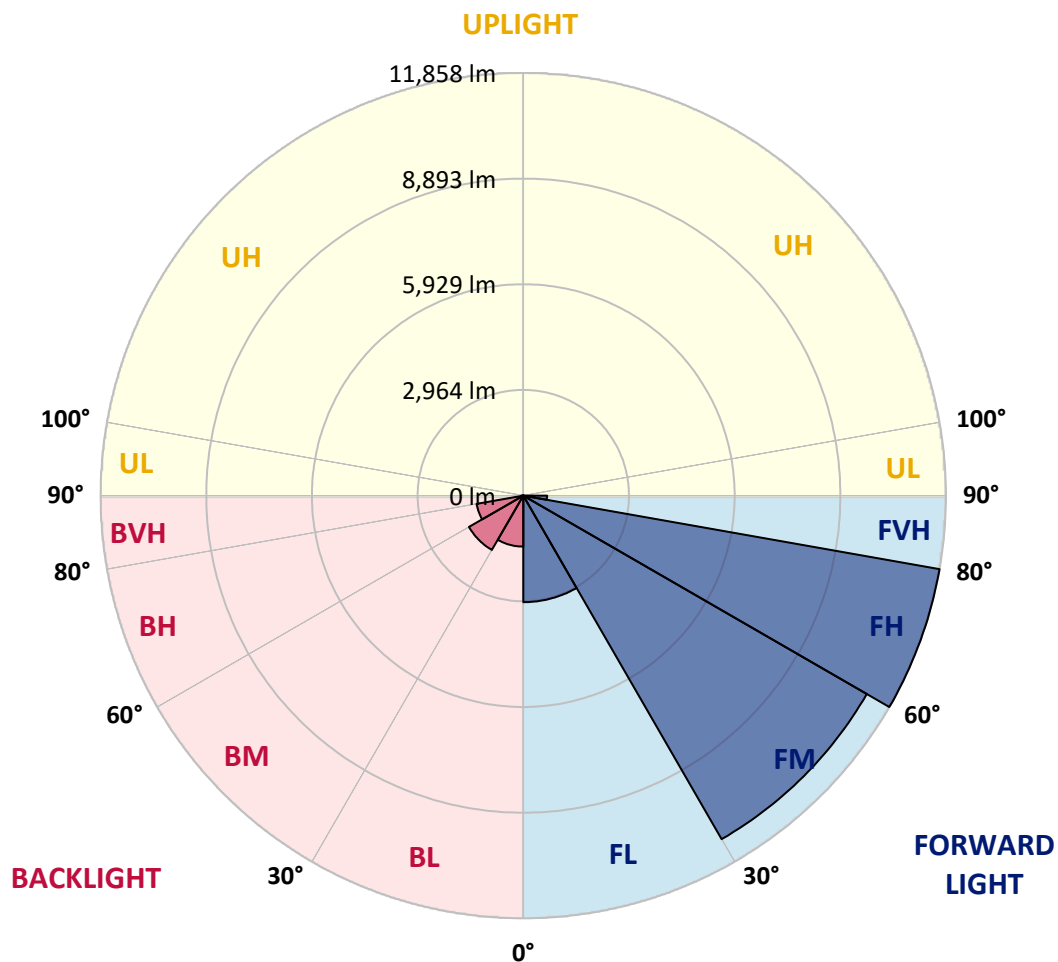
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2989.7	9.6			
FM	(30°-60°)	11126.9	35.6			
FH	(60°-80°)	11857.8	38.0			G4/12000
FVH	(80°-90°)	667.0	2.1			G4/750
BL	(0°-30°)	1429.9	4.6	B3/2500		
BM	(30°-60°)	1759.3	5.6	B2/2500		
BH	(60°-80°)	1330.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	55.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8626.3	8626.3	8626.3	8626.3	8626.3	8626.3	8626.3	8626.3	8626.3	8626.3	8626.3
2.5°	8946.6	8971.0	8964.0	8955.3	8941.4	8903.1	8840.4	8830.0	8789.9	8704.6	8598.4
5°	8809.1	8830.0	8831.7	8843.9	8861.3	8854.3	8809.1	8803.8	8744.7	8629.8	8452.2
7.5°	8337.3	8365.1	8426.1	8494.0	8554.9	8612.3	8626.3	8635.0	8598.4	8466.1	8229.3
10°	7806.3	7834.2	7862.0	7963.0	8112.7	8255.5	8373.8	8389.5	8398.2	8276.3	7987.4
12.5°	7217.9	7275.3	7334.5	7484.2	7684.4	7909.0	8117.9	8151.0	8210.2	8117.9	7778.4
15°	6718.2	6777.4	6862.7	6996.8	7238.8	7562.6	7856.8	7910.8	8027.4	7980.4	7583.5
17.5°	6371.8	6392.7	6451.9	6605.1	6866.2	7207.4	7600.9	7708.8	7895.1	7882.9	7416.3
20°	6098.5	6124.6	6161.1	6255.1	6526.7	6887.1	7362.4	7501.6	7754.1	7795.9	7250.9
22.5°	5983.6	6002.7	5997.5	6048.0	6232.5	6594.6	7120.4	7285.8	7628.7	7736.7	7097.7
25°	5990.5	6007.9	5981.8	5969.6	6079.3	6337.0	6867.9	7078.6	7527.8	7696.6	6958.5
27.5°	6107.2	6119.3	6070.6	6021.9	6030.6	6176.8	6659.0	6892.3	7442.4	7714.0	6841.8
30°	6263.8	6286.5	6255.1	6195.9	6131.5	6138.5	6525.0	6754.8	7402.4	7775.0	6786.1
32.5°	6465.8	6486.7	6472.8	6425.7	6342.2	6249.9	6491.9	6704.3	7405.9	7898.6	6773.9
35°	6678.2	6720.0	6742.6	6739.1	6671.2	6511.1	6622.5	6798.3	7489.5	8105.7	6845.3
37.5°	6918.4	6953.2	7050.7	7113.4	7050.7	6864.5	6916.7	7038.6	7674.0	8405.2	7002.0
40°	7151.7	7203.9	7346.7	7541.7	7517.3	7353.7	7365.8	7445.9	7999.5	8850.9	7308.4
42.5°	7395.4	7458.1	7707.1	7996.1	8053.5	7926.4	7959.5	8030.9	8462.6	9468.9	7834.2
45°	7708.8	7783.7	8090.1	8450.4	8676.8	8598.4	8692.4	8727.2	9082.4	10273.2	8527.0
47.5°	8112.7	8199.7	8577.5	9026.7	9347.0	9418.4	9582.0	9561.2	9850.1	11225.5	9425.4
50°	8793.4	8842.1	9199.0	9656.9	10097.4	10419.4	10597.0	10630.1	10802.4	12151.6	10429.9
52.5°	9602.9	9646.5	9904.1	10304.5	10856.4	11538.8	11977.6	11869.6	11911.4	13279.8	11605.0
55°	10513.4	10586.6	10750.2	11016.6	11732.1	12736.6	13617.5	13643.6	13180.5	14359.1	12731.4
57.5°	11218.5	11342.1	11622.4	12001.9	12908.9	14068.4	15252.2	15269.6	14677.7	15511.6	13974.4
60°	10863.4	11009.6	11650.3	12574.7	14453.1	16392.5	17205.5	17106.3	16134.9	16824.3	15490.7
62.5°	9331.3	9357.5	10288.9	11733.8	14928.4	19501.8	20112.9	19693.3	18079.5	18488.6	17031.5
65°	6039.3	6209.9	6948.0	8972.7	13366.8	21227.1	25206.8	24237.1	20805.8	20377.5	18321.5
67.5°	3812.6	3769.1	4075.5	5123.5	9193.8	19707.3	29553.9	29400.7	24371.2	21570.0	18013.3
69°	3161.5	3210.3	3314.7	3927.5	6326.5	16826.0	30067.5	31126.0	26099.9	21476.0	16893.9
70°	2867.3	2889.9	2999.6	3481.8	4881.5	14092.8	29224.9	31079.0	26778.9	21082.6	16082.6
72.5°	2275.4	2273.6	2461.7	2896.9	3649.0	8044.8	23996.9	26982.6	26019.8	19251.1	13288.5
75°	1728.7	1756.6	1963.8	2451.2	3361.7	4395.8	16745.9	20779.7	20781.4	15205.2	8292.0
77.5°	1246.5	1263.9	1505.9	2057.8	3166.7	3563.7	11154.1	14904.0	14011.0	6967.2	2606.2
80°	816.5	826.9	1011.5	1629.5	2855.1	3361.7	6613.8	9122.4	6608.5	1848.9	861.8
82.5°	447.4	499.6	618.0	1055.0	2291.1	3105.8	4019.8	4616.9	2479.1	823.5	449.2
85°	224.6	238.5	348.2	616.3	1497.2	2569.6	2799.4	2647.9	1279.6	409.1	233.3
87.5°	66.2	83.6	144.5	238.5	607.6	1338.8	1558.1	1398.0	492.7	148.0	48.7
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°	8626.3	8626.3	8626.3	8626.3	8626.3	8626.3	8626.3	8626.3	8626.3	8626.3	8626.3
2.5°	8554.9	8523.6	8384.3	8258.9	8144.0	8022.2	7919.5	7828.9	7837.6	7839.4	7747.1
5°	8359.9	8288.5	8023.9	7776.7	7567.8	7303.2	7076.9	6930.6	6857.5	6760.0	6794.8
7.5°	8095.3	7957.8	7590.4	7179.6	6794.8	6451.9	6079.3	5823.4	5659.7	5501.3	5522.2
10°	7822.0	7600.9	7066.4	6523.2	6025.3	5476.9	5001.7	4594.3	4291.4	4178.2	4103.4
12.5°	7541.7	7250.9	6572.0	5849.5	5161.8	4505.5	3831.8	3394.8	3060.5	2883.0	2905.6
15°	7285.8	6932.4	6056.7	5175.8	4282.7	3501.0	2829.0	2412.9	2179.6	2130.9	2158.7
17.5°	7049.0	6585.9	5574.4	4521.2	3478.4	2625.3	2125.7	1890.6	1796.6	1770.5	1768.8
20°	6805.3	6291.7	5033.0	3821.3	2710.6	2035.1	1744.4	1634.7	1617.3	1627.8	1629.5
22.5°	6558.1	5927.8	4475.9	3126.7	2158.7	1664.3	1525.0	1495.5	1509.4	1533.8	1537.2
25°	6330.0	5607.5	3939.7	2517.4	1723.5	1462.4	1394.5	1394.5	1425.8	1462.4	1464.1
27.5°	6142.0	5297.6	3405.2	1998.6	1443.2	1316.1	1293.5	1305.7	1349.2	1377.1	1378.8
30°	5987.0	5008.6	2900.4	1601.6	1269.1	1199.5	1194.3	1215.2	1246.5	1272.6	1274.4
32.5°	5870.4	4754.5	2428.6	1345.7	1149.0	1110.7	1109.0	1124.6	1142.0	1149.0	1156.0
35°	5825.1	4543.8	1996.8	1183.8	1068.9	1044.6	1044.6	1042.8	1049.8	1053.3	1056.7
37.5°	5861.7	4381.9	1662.6	1079.4	1009.7	992.3	981.9	971.4	968.0	968.0	969.7
40°	6016.6	4296.6	1413.6	1011.5	968.0	941.8	922.7	910.5	898.3	901.8	905.3
42.5°	6345.7	4312.3	1244.8	966.2	931.4	894.8	867.0	853.1	844.3	854.8	853.1
45°	6869.7	4469.0	1136.8	934.9	894.8	847.8	821.7	807.8	807.8	823.5	828.7
47.5°	7602.6	4768.4	1079.4	910.5	867.0	811.3	785.2	774.7	778.2	804.3	806.0
50°	8497.4	5288.9	1068.9	898.3	853.1	785.2	755.6	745.1	753.8	781.7	785.2
52.5°	9484.6	5959.2	1119.4	900.1	840.9	769.5	731.2	715.5	724.2	746.9	753.8
55°	10654.5	6798.3	1250.0	907.0	823.5	760.8	713.8	679.0	689.4	705.1	706.8
57.5°	11848.7	7856.8	1479.8	908.8	809.5	745.1	684.2	638.9	638.9	649.4	654.6
60°	13307.6	9009.3	1782.7	910.5	811.3	722.5	644.1	593.7	586.7	591.9	593.7
62.5°	14756.1	9973.7	1833.2	905.3	828.7	699.9	600.6	548.4	536.2	534.5	531.0
65°	15395.0	9794.4	1502.4	880.9	847.8	685.9	565.8	504.9	484.0	477.0	477.0
67.5°	14353.9	8285.1	1129.9	847.8	835.6	672.0	532.7	468.3	443.9	430.0	430.0
69°	13375.5	7369.3	1015.0	825.2	804.3	649.4	511.8	449.2	419.6	403.9	398.7
70°	12620.0	6739.1	966.2	806.0	774.7	623.3	496.2	435.2	402.2	384.7	381.3
72.5°	10071.2	5287.2	846.1	732.9	659.8	524.0	440.5	391.7	360.4	341.2	336.0
75°	5804.2	2865.6	701.6	637.2	531.0	407.4	372.6	341.2	316.8	299.4	294.2
77.5°	1786.2	1107.2	508.3	503.1	390.0	315.1	297.7	285.5	268.1	249.0	245.5
80°	752.1	564.1	344.7	339.5	259.4	219.4	214.1	212.4	205.4	189.8	184.5
82.5°	412.6	318.6	240.2	208.9	156.7	127.1	132.3	134.1	128.8	113.2	102.7
85°	201.9	174.1	116.6	94.0	71.4	45.3	43.5	52.2	48.7	34.8	38.3
87.5°	40.0	48.7	31.3	13.9	7.0	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)