

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: P455245

Luminaire Tested: **GALN-SA6B-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455245
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-SA6B-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 26576 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 243
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

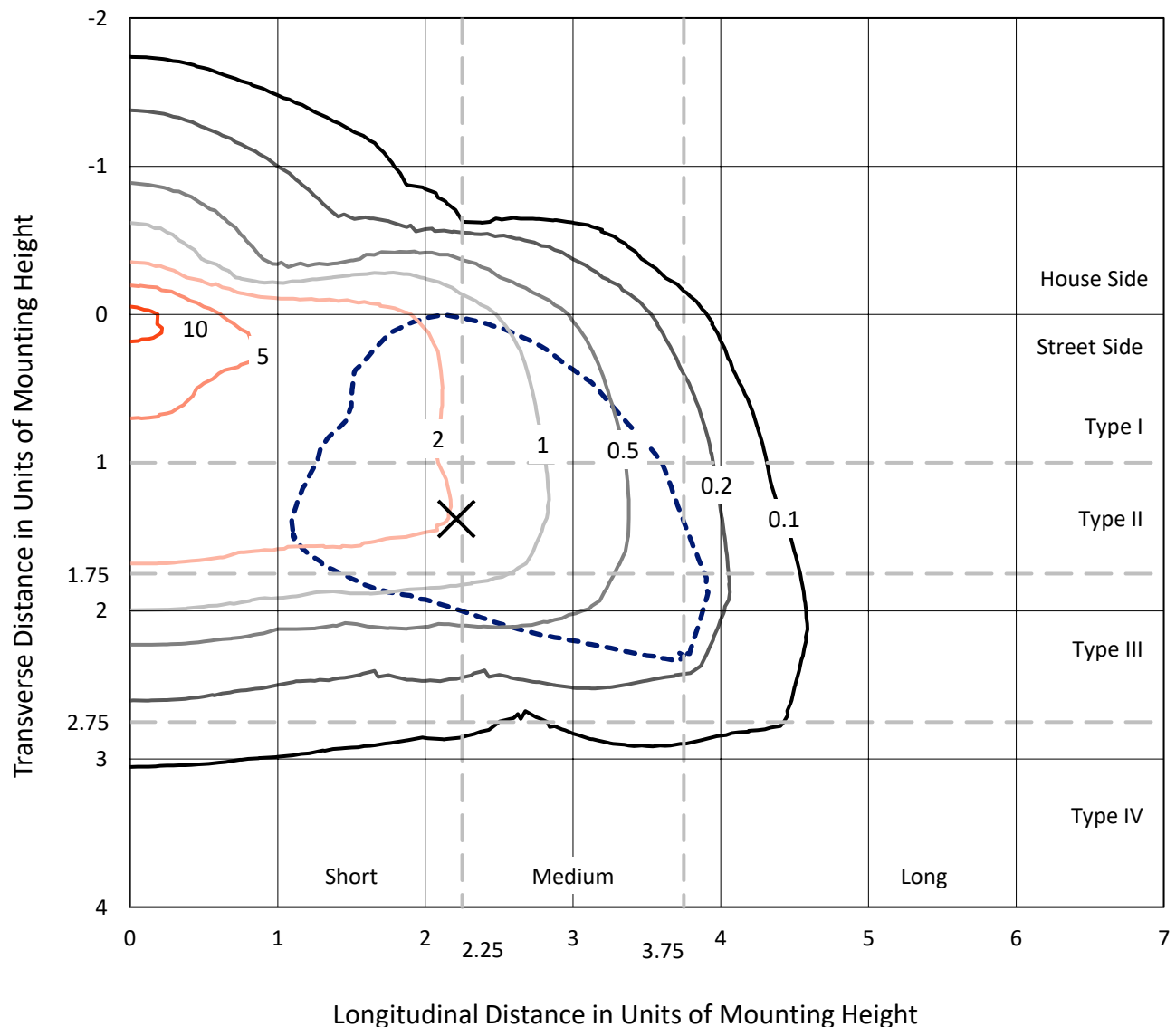


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Iso-Footcandle Lines of Horizontal Illumination

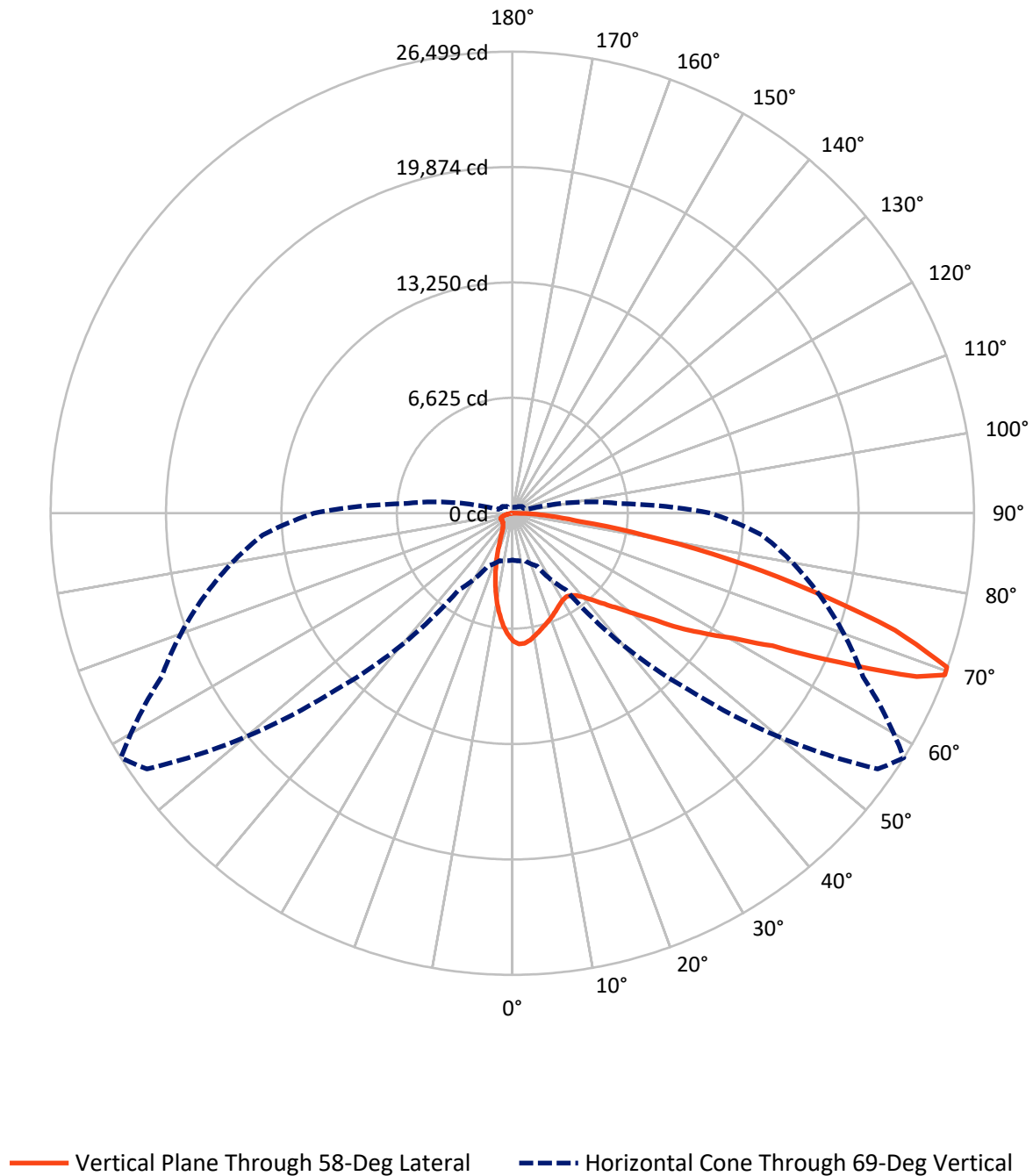
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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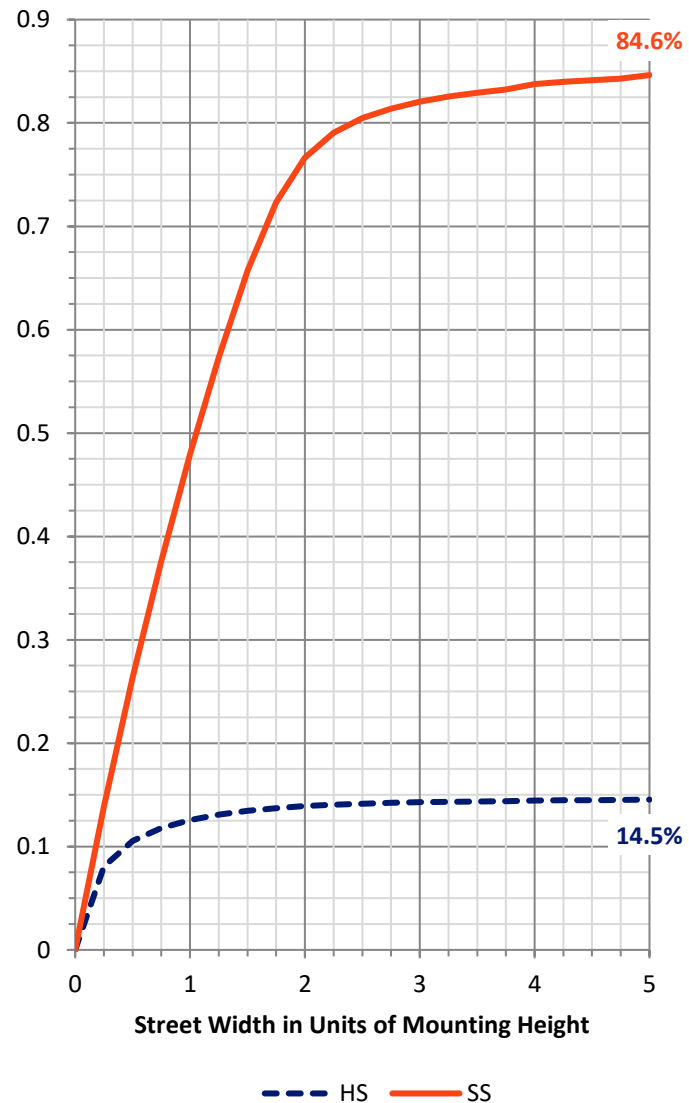
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3894.7	0.0	3894.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	22681.3	0.0	22681.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	26576.0	0.0	26576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.7	2.3
10°-20°	1369.5	5.2
20°-30°	1769.4	6.7
30°-40°	2298.1	8.6
40°-50°	3341.2	12.6
50°-60°	5331.4	20.1
60°-70°	7122.1	26.8
70°-80°	4105.6	15.4
80°-90°	614.9	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°	26576.0	100.0
0°-180°	26576.0	100.0

Coefficient of Utilization



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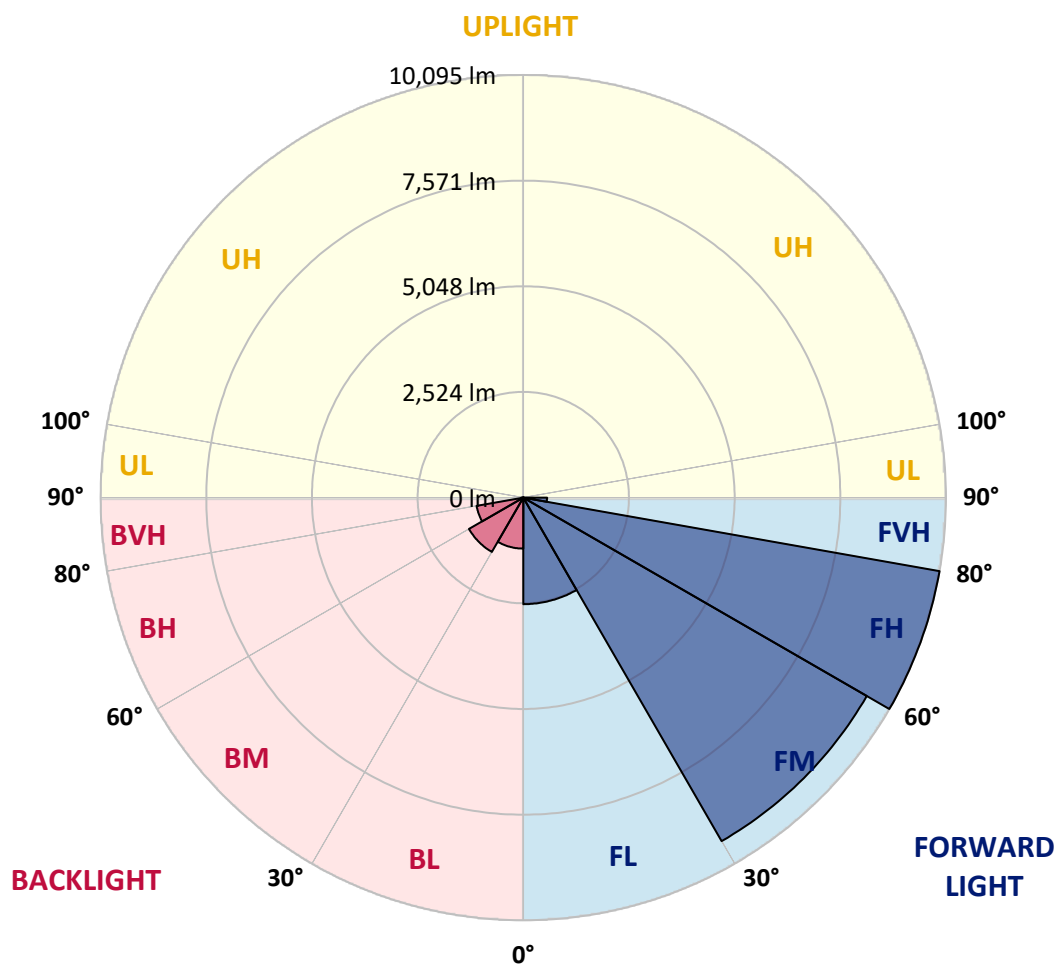
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2545.3	9.6			
FM	(30°-60°)	9473.0	35.6			
FH	(60°-80°)	10095.2	38.0			G4/12000
FVH	(80°-90°)	567.8	2.1			G4/750
BL	(0°-30°)	1217.3	4.6	B3/2500		
BM	(30°-60°)	1497.8	5.6	B2/2500		
BH	(60°-80°)	1132.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	47.1	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°	7344.1	7344.1	7344.1	7344.1	7344.1	7344.1	7344.1	7344.1	7344.1	7344.1	7344.1
2.5°	7616.8	7637.5	7631.6	7624.2	7612.3	7579.7	7526.4	7517.5	7483.4	7410.7	7320.3
5°	7499.7	7517.5	7518.9	7529.3	7544.1	7538.2	7499.7	7495.2	7444.8	7347.0	7195.8
7.5°	7098.0	7121.7	7173.6	7231.4	7283.3	7332.2	7344.1	7351.5	7320.3	7207.7	7006.1
10°	6646.0	6669.7	6693.4	6779.4	6906.8	7028.4	7129.1	7142.5	7149.9	7046.1	6800.1
12.5°	6145.0	6193.9	6244.3	6371.8	6542.2	6733.4	6911.3	6939.4	6989.8	6911.3	6622.2
15°	5719.6	5770.0	5842.6	5956.8	6162.8	6438.5	6688.9	6734.9	6834.2	6794.2	6456.2
17.5°	5424.7	5442.5	5492.8	5623.3	5845.6	6136.1	6471.1	6563.0	6721.5	6711.2	6314.0
20°	5192.0	5214.2	5245.3	5325.4	5556.6	5863.4	6268.0	6386.6	6601.5	6637.1	6173.2
22.5°	5094.1	5110.5	5106.0	5149.0	5306.1	5614.4	6062.0	6202.8	6494.8	6586.7	6042.7
25°	5100.1	5114.9	5092.7	5082.3	5175.7	5395.0	5847.1	6026.4	6408.8	6552.6	5924.2
27.5°	5199.4	5209.8	5168.3	5126.8	5134.2	5258.7	5669.2	5867.8	6336.2	6567.4	5824.8
30°	5332.8	5352.0	5325.4	5275.0	5220.1	5226.1	5555.1	5750.7	6302.1	6619.3	5777.4
32.5°	5504.7	5522.5	5510.6	5470.6	5399.5	5320.9	5526.9	5707.8	6305.1	6724.5	5767.0
35°	5685.5	5721.1	5740.4	5737.4	5679.6	5543.2	5638.1	5787.8	6376.2	6900.9	5827.8
37.5°	5890.1	5919.7	6002.7	6056.1	6002.7	5844.1	5888.6	5992.3	6533.3	7155.8	5961.2
40°	6088.7	6133.1	6254.7	6420.7	6399.9	6260.6	6271.0	6339.2	6810.5	7535.2	6222.1
42.5°	6296.2	6349.5	6561.5	6807.5	6856.4	6748.2	6776.4	6837.2	7204.7	8061.4	6669.7
45°	6563.0	6626.7	6887.5	7194.4	7387.0	7320.3	7400.4	7430.0	7732.4	8746.2	7259.6
47.5°	6906.8	6980.9	7302.6	7684.9	7957.7	8018.4	8157.8	8140.0	8386.0	9556.9	8024.4
50°	7486.3	7527.8	7831.7	8221.5	8596.5	8870.7	9021.8	9050.0	9196.7	10345.4	8879.6
52.5°	8175.5	8212.6	8431.9	8772.8	9242.7	9823.7	10197.2	10105.3	10140.9	11305.8	9880.0
55°	8950.7	9013.0	9152.3	9379.0	9988.2	10843.4	11593.4	11615.6	11221.4	12224.8	10839.0
57.5°	9551.0	9656.2	9894.8	10217.9	10990.1	11977.2	12985.1	12999.9	12496.0	13206.0	11897.2
60°	9248.6	9373.1	9918.5	10705.6	12304.8	13955.9	14648.1	14563.6	13736.6	14323.5	13188.2
62.5°	7944.3	7966.6	8759.5	9989.7	12709.4	16603.0	17123.3	16766.1	15392.1	15740.4	14499.9
65°	5141.6	5286.8	5915.3	7639.0	11379.9	18071.8	21460.0	20634.5	17713.2	17348.6	15598.1
67.5°	3245.9	3208.9	3469.7	4362.0	7827.2	16777.9	25161.0	25030.5	20748.6	18363.8	15335.8
69°	2691.6	2733.1	2822.0	3343.7	5386.1	14325.0	25598.2	26499.3	22220.4	18283.8	14382.8
70°	2441.1	2460.4	2553.7	2964.3	4155.9	11998.0	24880.8	26459.3	22798.4	17948.8	13692.1
72.5°	1937.2	1935.7	2095.8	2466.3	3106.6	6849.0	20429.9	22971.8	22152.2	16389.6	11313.2
75°	1471.8	1495.5	1671.9	2086.9	2862.0	3742.4	14256.8	17690.9	17692.4	12945.1	7059.5
77.5°	1061.2	1076.0	1282.1	1751.9	2696.0	3034.0	9496.1	12688.7	11928.3	5931.6	2218.8
80°	695.1	704.0	861.1	1387.3	2430.7	2862.0	5630.7	7766.5	5626.2	1574.0	733.7
82.5°	380.9	425.4	526.2	898.2	1950.5	2644.2	3422.3	3930.7	2110.6	701.1	382.4
85°	191.2	203.1	296.4	524.7	1274.6	2187.7	2383.3	2254.3	1089.4	348.3	198.6
87.5°	56.3	71.1	123.0	203.1	517.3	1139.8	1326.5	1190.2	419.4	126.0	41.5
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°	7344.1	7344.1	7344.1	7344.1	7344.1	7344.1	7344.1	7344.1	7344.1	7344.1	7344.1
2.5°	7283.3	7256.6	7138.0	7031.3	6933.5	6829.7	6742.3	6665.2	6672.6	6674.1	6595.6
5°	7117.3	7056.5	6831.2	6620.8	6442.9	6217.6	6024.9	5900.4	5838.2	5755.2	5784.8
7.5°	6892.0	6774.9	6462.2	6112.4	5784.8	5492.8	5175.7	4957.8	4818.5	4683.6	4701.4
10°	6659.3	6471.1	6016.0	5553.6	5129.7	4662.8	4258.2	3911.4	3653.5	3557.2	3493.4
12.5°	6420.7	6173.2	5595.1	4980.0	4394.6	3835.8	3262.2	2890.2	2605.6	2454.4	2473.7
15°	6202.8	5901.9	5156.4	4406.4	3646.1	2980.6	2408.5	2054.3	1855.7	1814.2	1837.9
17.5°	6001.2	5607.0	4745.8	3849.1	2961.3	2235.1	1809.7	1609.6	1529.6	1507.3	1505.9
20°	5793.7	5356.5	4284.9	3253.3	2307.7	1732.6	1485.1	1391.7	1376.9	1385.8	1387.3
22.5°	5583.3	5046.7	3810.6	2661.9	1837.9	1416.9	1298.4	1273.2	1285.0	1305.8	1308.7
25°	5389.1	4774.0	3354.1	2143.2	1467.3	1245.0	1187.2	1187.2	1213.9	1245.0	1246.5
27.5°	5229.0	4510.2	2899.1	1701.5	1228.7	1120.5	1101.2	1111.6	1148.7	1172.4	1173.9
30°	5097.1	4264.1	2469.3	1363.6	1080.5	1021.2	1016.8	1034.5	1061.2	1083.5	1084.9
32.5°	4997.8	4047.8	2067.6	1145.7	978.2	945.6	944.1	957.5	972.3	978.2	984.1
35°	4959.3	3868.4	1700.0	1007.9	910.0	889.3	889.3	887.8	893.7	896.7	899.7
37.5°	4990.4	3730.6	1415.5	918.9	859.6	844.8	835.9	827.0	824.1	824.1	825.6
40°	5122.3	3657.9	1203.5	861.1	824.1	801.8	785.5	775.2	764.8	767.8	770.7
42.5°	5402.4	3671.3	1059.7	822.6	792.9	761.8	738.1	726.3	718.8	727.7	726.3
45°	5848.6	3804.7	967.8	795.9	761.8	721.8	699.6	687.7	687.7	701.1	705.5
47.5°	6472.5	4059.6	918.9	775.2	738.1	690.7	668.4	659.6	662.5	684.8	686.2
50°	7234.4	4502.8	910.0	764.8	726.3	668.4	643.3	634.4	641.8	665.5	668.4
52.5°	8074.8	5073.4	953.0	766.3	715.9	655.1	622.5	609.2	616.6	635.8	641.8
55°	9070.8	5787.8	1064.2	772.2	701.1	647.7	607.7	578.0	586.9	600.3	601.8
57.5°	10087.5	6688.9	1259.8	773.7	689.2	634.4	582.5	543.9	543.9	552.8	557.3
60°	11329.6	7670.1	1517.7	775.2	690.7	615.1	548.4	505.4	499.5	503.9	505.4
62.5°	12562.7	8491.2	1560.7	770.7	705.5	595.8	511.3	466.9	456.5	455.0	452.1
65°	13106.6	8338.6	1279.1	750.0	721.8	584.0	481.7	429.8	412.0	406.1	406.1
67.5°	12220.3	7053.5	961.9	721.8	711.4	572.1	453.5	398.7	377.9	366.1	366.1
69°	11387.4	6273.9	864.1	702.5	684.8	552.8	435.8	382.4	357.2	343.9	339.4
70°	10744.1	5737.4	822.6	686.2	659.6	530.6	422.4	370.5	342.4	327.6	324.6
72.5°	8574.2	4501.3	720.3	624.0	561.7	446.1	375.0	333.5	306.8	290.5	286.1
75°	4941.5	2439.6	597.3	542.5	452.1	346.8	317.2	290.5	269.8	254.9	250.5
77.5°	1520.7	942.6	432.8	428.3	332.0	268.3	253.4	243.1	228.3	211.9	209.0
80°	640.3	480.2	293.5	289.0	220.8	186.8	182.3	180.8	174.9	161.6	157.1
82.5°	351.3	271.2	204.5	177.9	133.4	108.2	112.6	114.1	109.7	96.3	87.4
85°	171.9	148.2	99.3	80.0	60.8	38.5	37.1	44.5	41.5	29.6	32.6
87.5°	34.1	41.5	26.7	11.9	5.9	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)