

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: P454781

Luminaire Tested: **GALN-SA5D-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454781
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-SA5D-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 30513 lumens
Efficiency: N/A
Efficacy: 98.7 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): 309
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



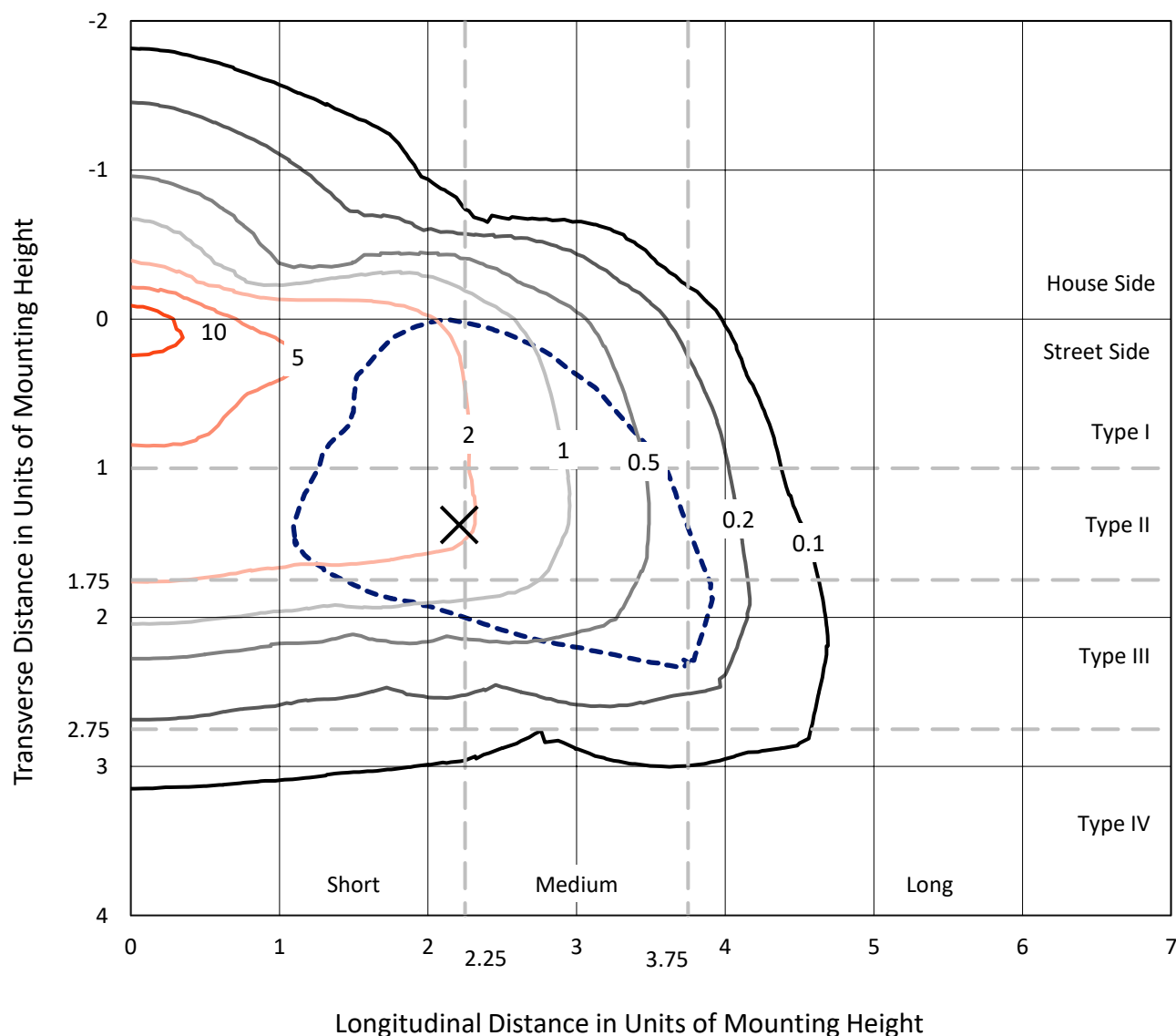
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



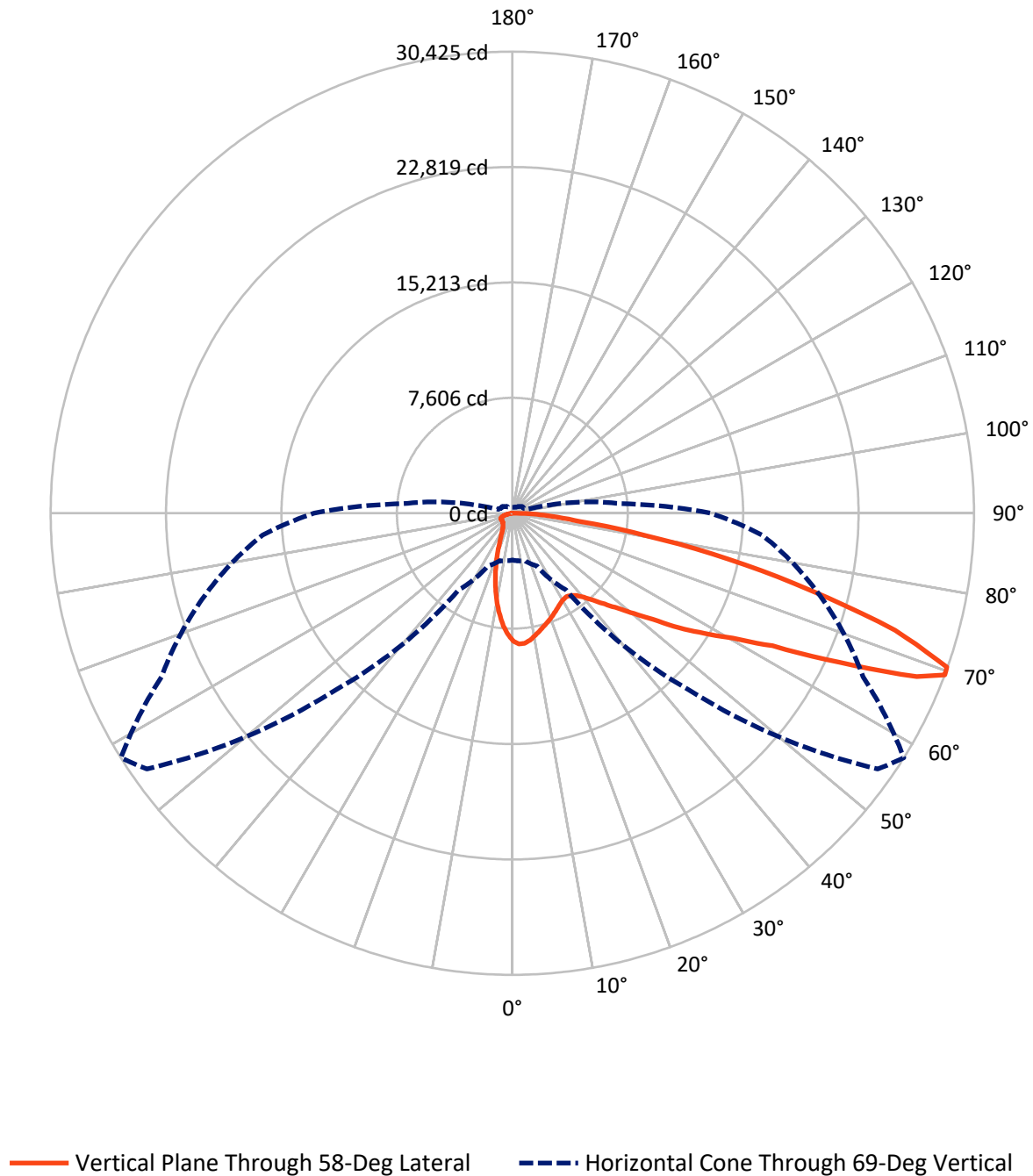
Based on 25 foot mounting height. Maximum calculated value = 13.5 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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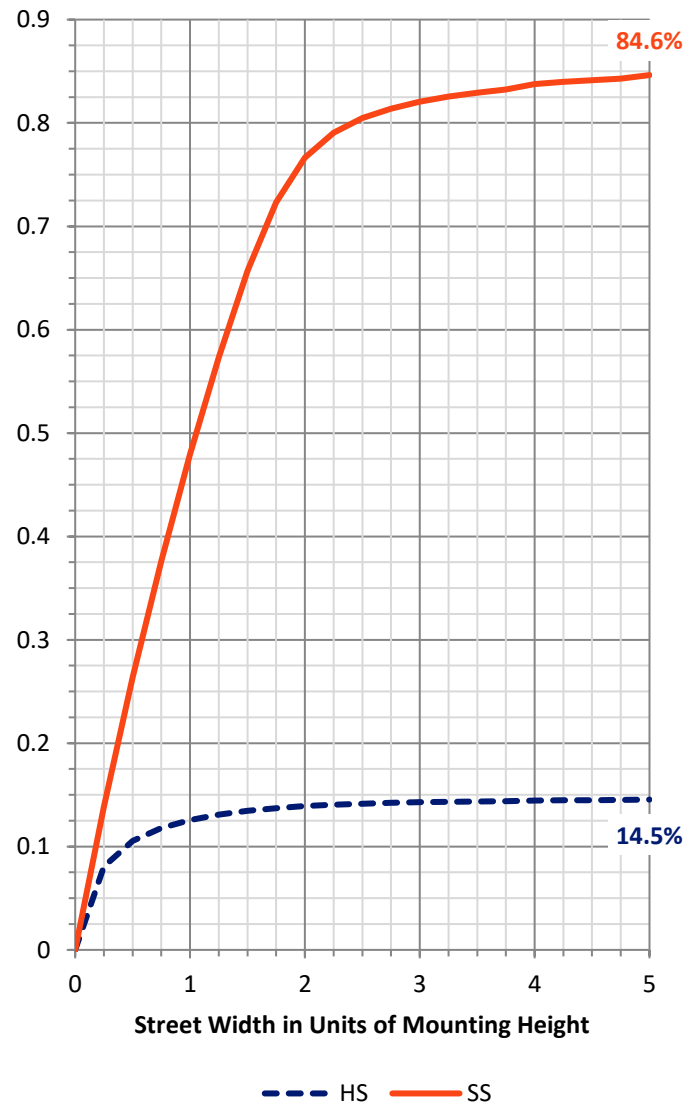
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4471.7	0.0	4471.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	26041.3	0.0	26041.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	30513.0	0.0	30513.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.1	2.3
10°-20°	1572.4	5.2
20°-30°	2031.6	6.7
30°-40°	2638.6	8.6
40°-50°	3836.1	12.6
50°-60°	6121.2	20.1
60°-70°	8177.2	26.8
70°-80°	4713.8	15.4
80°-90°	706.0	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°	30513.0	100.0
0°-180°	30513.0	100.0

Coefficient of Utilization



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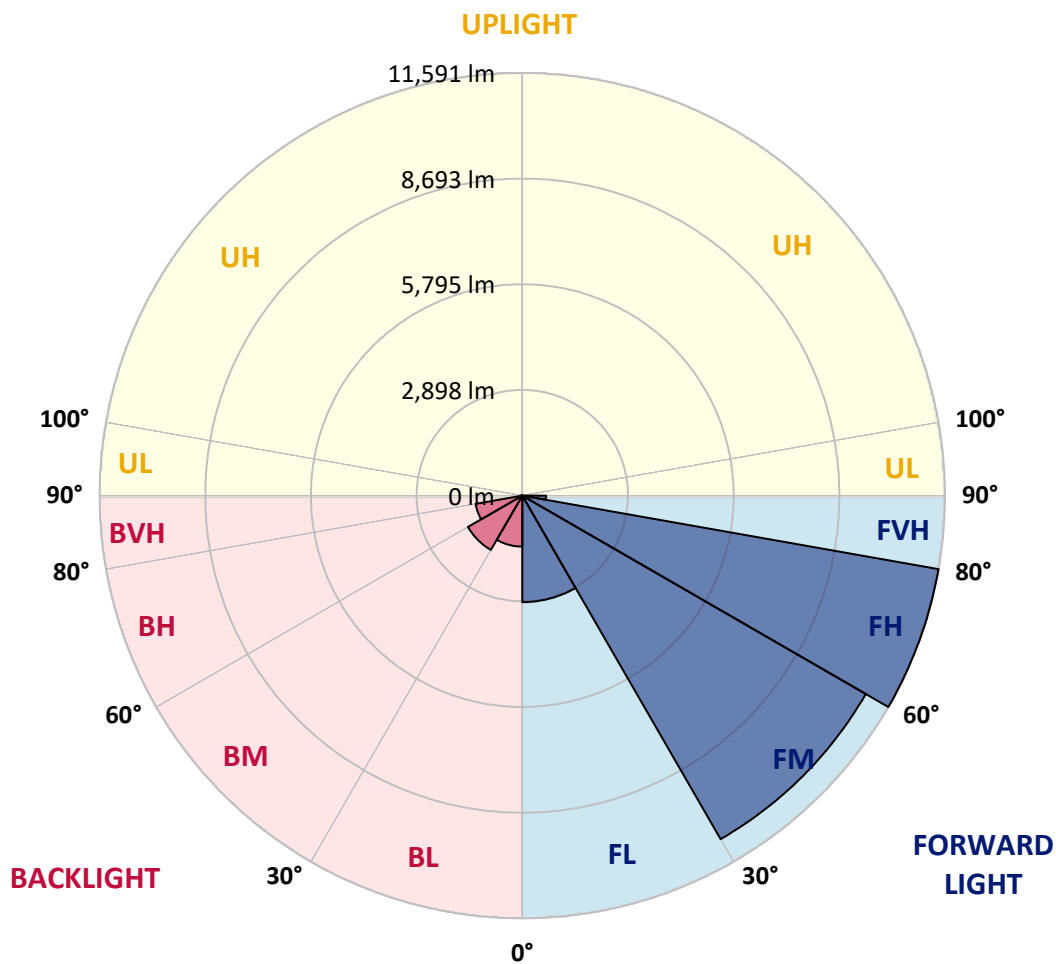
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2922.4	9.6			
FM	(30°-60°)	10876.3	35.6			
FH	(60°-80°)	11590.7	38.0			G4/12000
FVH	(80°-90°)	651.9	2.1			G4/750
BL	(0°-30°)	1397.7	4.6	B3/2500		
BM	(30°-60°)	1719.7	5.6	B2/2500		
BH	(60°-80°)	1300.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	54.1	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°	8432.0	8432.0	8432.0	8432.0	8432.0	8432.0	8432.0	8432.0	8432.0	8432.0	8432.0
2.5°	8745.1	8768.9	8762.1	8753.6	8740.0	8702.6	8641.3	8631.1	8592.0	8508.6	8404.8
5°	8610.7	8631.1	8632.8	8644.7	8661.7	8654.9	8610.7	8605.6	8547.7	8435.4	8261.8
7.5°	8149.5	8176.7	8236.3	8302.7	8362.2	8418.4	8432.0	8440.5	8404.8	8275.4	8044.0
10°	7630.5	7657.7	7685.0	7783.7	7930.0	8069.5	8185.3	8200.6	8209.1	8090.0	7807.5
12.5°	7055.3	7111.5	7169.3	7315.7	7511.4	7730.9	7935.1	7967.4	8025.3	7935.1	7603.3
15°	6566.9	6624.8	6708.2	6839.2	7075.7	7392.3	7679.8	7732.6	7846.6	7800.7	7412.7
17.5°	6228.3	6248.7	6306.6	6456.3	6711.6	7045.1	7429.7	7535.2	7717.3	7705.4	7249.3
20°	5961.1	5986.6	6022.4	6114.3	6379.7	6732.0	7196.6	7332.7	7579.4	7620.3	7087.7
22.5°	5848.8	5867.5	5862.4	5911.8	6092.1	6446.1	6960.0	7121.7	7456.9	7562.4	6937.9
25°	5855.6	5872.6	5847.1	5835.2	5942.4	6194.2	6713.3	6919.2	7358.2	7523.3	6801.8
27.5°	5969.6	5981.5	5933.9	5886.2	5894.7	6037.7	6509.1	6737.1	7274.8	7540.3	6687.7
30°	6122.8	6144.9	6114.3	6056.4	5993.4	6000.3	6378.0	6602.7	7235.7	7599.9	6633.3
32.5°	6320.2	6340.6	6327.0	6281.0	6199.4	6109.2	6345.7	6553.3	7239.1	7720.7	6621.4
35°	6527.8	6568.6	6590.7	6587.3	6521.0	6364.4	6473.3	6645.2	7320.8	7923.2	6691.2
37.5°	6762.6	6796.7	6892.0	6953.2	6892.0	6709.9	6760.9	6880.0	7501.2	8215.9	6844.3
40°	6990.7	7041.7	7181.2	7371.8	7348.0	7188.1	7200.0	7278.2	7819.4	8651.5	7143.8
42.5°	7228.9	7290.2	7533.5	7816.0	7872.1	7747.9	7780.2	7850.0	8272.0	9255.6	7657.7
45°	7535.2	7608.4	7907.9	8260.1	8481.4	8404.8	8496.7	8530.7	8877.9	10041.8	8335.0
47.5°	7930.0	8015.1	8384.4	8823.4	9136.5	9206.3	9366.2	9345.8	9628.3	10972.7	9213.1
50°	8595.4	8643.0	8991.9	9439.4	9870.0	10184.8	10358.4	10390.7	10559.2	11878.0	10195.0
52.5°	9386.7	9429.2	9681.1	10072.5	10611.9	11279.0	11707.8	11602.3	11643.1	12980.7	11343.6
55°	10276.7	10348.1	10508.1	10768.5	11467.9	12449.8	13310.8	13336.4	12883.7	14035.8	12444.7
57.5°	10965.9	11086.7	11360.7	11731.6	12618.2	13751.6	14908.7	14925.8	14347.2	15162.3	13659.7
60°	10618.7	10761.7	11387.9	12291.5	14127.7	16023.4	16818.1	16721.1	15771.5	16445.4	15141.9
62.5°	9121.2	9146.7	10057.1	11469.6	14592.2	19062.6	19659.9	19249.8	17672.3	18072.2	16647.9
65°	5903.3	6070.0	6791.6	8770.6	13065.8	20749.0	24639.2	23691.3	20337.2	19918.6	17908.9
67.5°	3726.8	3684.2	3983.7	5008.2	8986.8	19263.4	28888.3	28738.6	23822.3	21084.3	17607.7
69°	3090.3	3138.0	3240.1	3839.1	6184.0	16447.1	29390.4	30425.0	25512.1	20992.4	16513.5
70°	2802.7	2824.8	2932.1	3403.4	4771.6	13775.4	28566.7	30379.0	26175.8	20607.8	15720.5
72.5°	2224.1	2222.4	2406.2	2831.7	3566.8	7863.6	23456.5	26374.9	25433.9	18817.6	12989.2
75°	1689.8	1717.0	1919.5	2396.0	3286.0	4296.8	16368.8	20311.7	20313.4	14862.8	8105.3
77.5°	1218.4	1235.4	1472.0	2011.4	3095.4	3483.4	10902.9	14568.4	13695.4	6810.3	2547.5
80°	798.1	808.3	988.7	1592.8	2790.8	3286.0	6464.8	8917.0	6459.7	1807.2	842.3
82.5°	437.3	488.4	604.1	1031.2	2239.5	3035.9	3929.3	4513.0	2423.2	804.9	439.0
85°	219.5	233.1	340.3	602.4	1463.5	2511.7	2736.4	2588.3	1250.8	399.9	228.0
87.5°	64.7	81.7	141.2	233.1	593.9	1308.6	1523.0	1366.5	481.6	144.6	47.6
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°	8432.0	8432.0	8432.0	8432.0	8432.0	8432.0	8432.0	8432.0	8432.0	8432.0	8432.0
2.5°	8362.2	8331.6	8195.5	8072.9	7960.6	7841.5	7741.1	7652.6	7661.1	7662.8	7572.6
5°	8171.6	8101.9	7843.2	7601.6	7397.4	7138.7	6917.5	6774.5	6703.1	6607.8	6641.8
7.5°	7913.0	7778.5	7419.5	7017.9	6641.8	6306.6	5942.4	5692.2	5532.3	5377.4	5397.8
10°	7645.8	7429.7	6907.3	6376.3	5889.6	5353.6	4889.0	4490.8	4194.7	4084.1	4010.9
12.5°	7371.8	7087.7	6424.0	5717.8	5045.6	4404.0	3745.5	3318.3	2991.6	2818.0	2840.2
15°	7121.7	6776.2	5920.3	5059.2	4186.2	3422.2	2765.3	2358.6	2130.5	2082.9	2110.1
17.5°	6890.3	6437.6	5448.9	4419.4	3400.0	2566.2	2077.8	1848.1	1756.2	1730.6	1728.9
20°	6652.0	6150.0	4919.7	3735.3	2649.6	1989.3	1705.1	1597.9	1580.9	1591.1	1592.8
22.5°	6410.4	5794.3	4375.1	3056.3	2110.1	1626.8	1490.7	1461.8	1475.4	1499.2	1502.6
25°	6187.4	5481.2	3851.0	2460.7	1684.7	1429.4	1363.1	1363.1	1393.7	1429.4	1431.1
27.5°	6003.7	5178.3	3328.6	1953.6	1410.7	1286.5	1264.4	1276.3	1318.8	1346.1	1347.8
30°	5852.2	4895.8	2835.1	1565.6	1240.6	1172.5	1167.4	1187.8	1218.4	1244.0	1245.7
32.5°	5738.2	4647.4	2373.9	1315.4	1123.1	1085.7	1084.0	1099.3	1116.3	1123.1	1129.9
35°	5693.9	4441.5	1951.9	1157.2	1044.9	1021.0	1021.0	1019.3	1026.1	1029.5	1032.9
37.5°	5729.7	4283.2	1625.1	1055.1	987.0	970.0	959.8	949.6	946.2	946.2	947.9
40°	5881.1	4199.8	1381.8	988.7	946.2	920.6	901.9	890.0	878.1	881.5	884.9
42.5°	6202.8	4215.2	1216.7	944.5	910.4	874.7	847.5	833.8	825.3	835.5	833.8
45°	6715.0	4368.3	1111.2	913.8	874.7	828.7	803.2	789.6	789.6	804.9	810.0
47.5°	7431.4	4661.0	1055.1	890.0	847.5	793.0	767.5	757.3	760.7	786.2	787.9
50°	8306.1	5169.8	1044.9	878.1	833.8	767.5	738.5	728.3	736.8	764.1	767.5
52.5°	9271.0	5825.0	1094.2	879.8	821.9	752.2	714.7	699.4	707.9	730.0	736.8
55°	10414.5	6645.2	1221.8	886.6	804.9	743.7	697.7	663.7	673.9	689.2	690.9
57.5°	11581.9	7679.8	1446.5	888.3	791.3	728.3	668.8	624.5	624.5	634.7	639.8
60°	13007.9	8806.4	1742.6	890.0	793.0	706.2	629.6	580.3	573.5	578.6	580.3
62.5°	14423.8	9749.1	1791.9	884.9	810.0	684.1	587.1	536.0	524.1	522.4	519.0
65°	15048.3	9573.9	1468.6	861.1	828.7	670.5	553.1	493.5	473.1	466.3	466.3
67.5°	14030.7	8098.5	1104.4	828.7	816.8	656.9	520.7	457.8	433.9	420.3	420.3
69°	13074.3	7203.4	992.1	806.6	786.2	634.7	500.3	439.0	410.1	394.8	389.7
70°	12335.7	6587.3	944.5	787.9	757.3	609.2	485.0	425.4	393.1	376.1	372.7
72.5°	9844.4	5168.1	827.0	716.4	645.0	512.2	430.5	382.9	352.3	333.5	328.4
75°	5673.5	2801.0	685.8	622.8	519.0	398.2	364.2	333.5	309.7	292.7	287.6
77.5°	1746.0	1082.3	496.9	491.8	381.2	308.0	291.0	279.1	262.1	243.3	239.9
80°	735.1	551.4	336.9	331.8	253.6	214.4	209.3	207.6	200.8	185.5	180.4
82.5°	403.3	311.4	234.8	204.2	153.2	124.2	129.3	131.0	125.9	110.6	100.4
85°	197.4	170.2	114.0	91.9	69.8	44.2	42.5	51.1	47.6	34.0	37.4
87.5°	39.1	47.6	30.6	13.6	6.8	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)