

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: P456407

Luminaire Tested: **GALN-SA7C-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38089 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 377
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

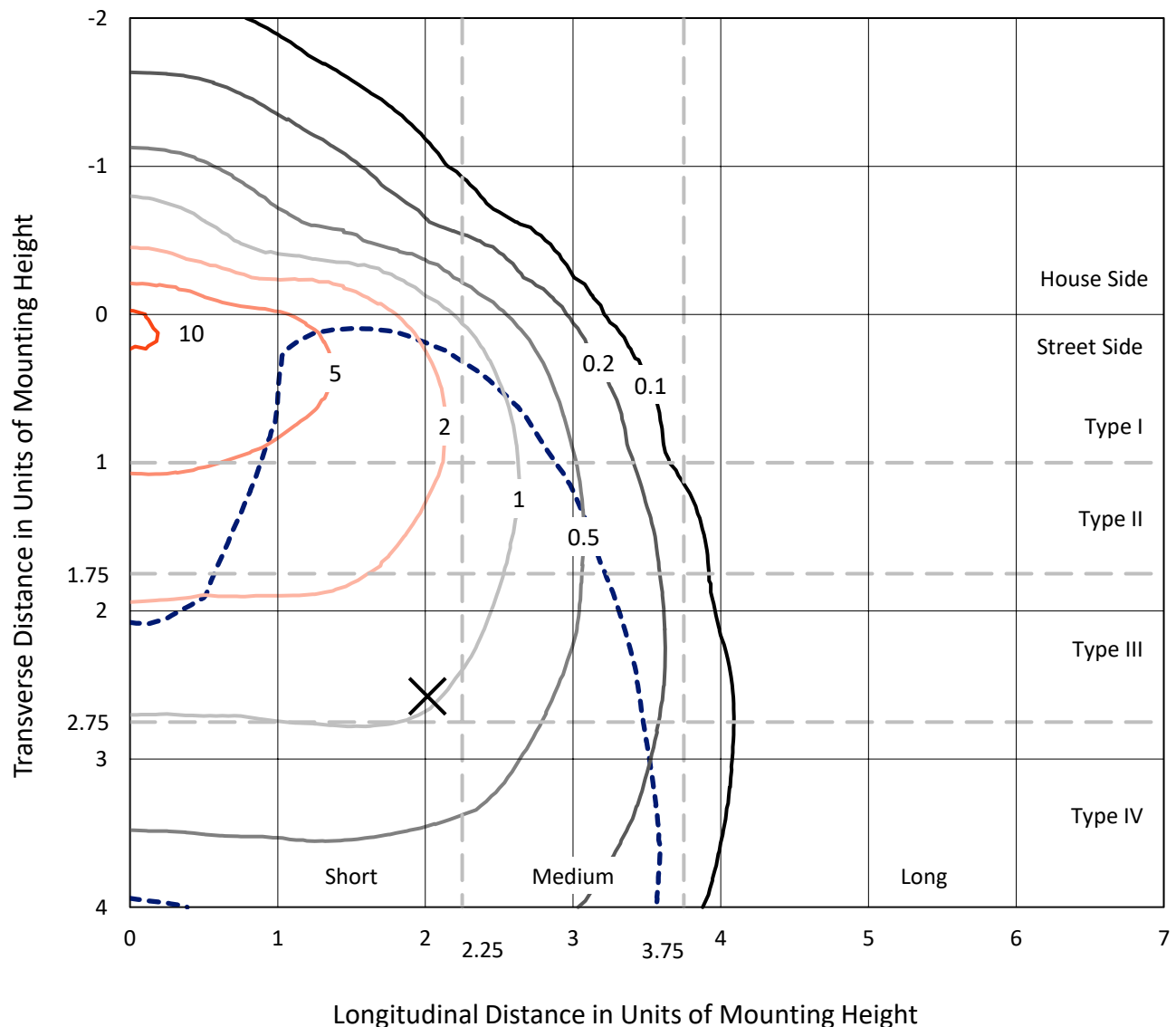


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Iso-Footcandle Lines of Horizontal Illumination

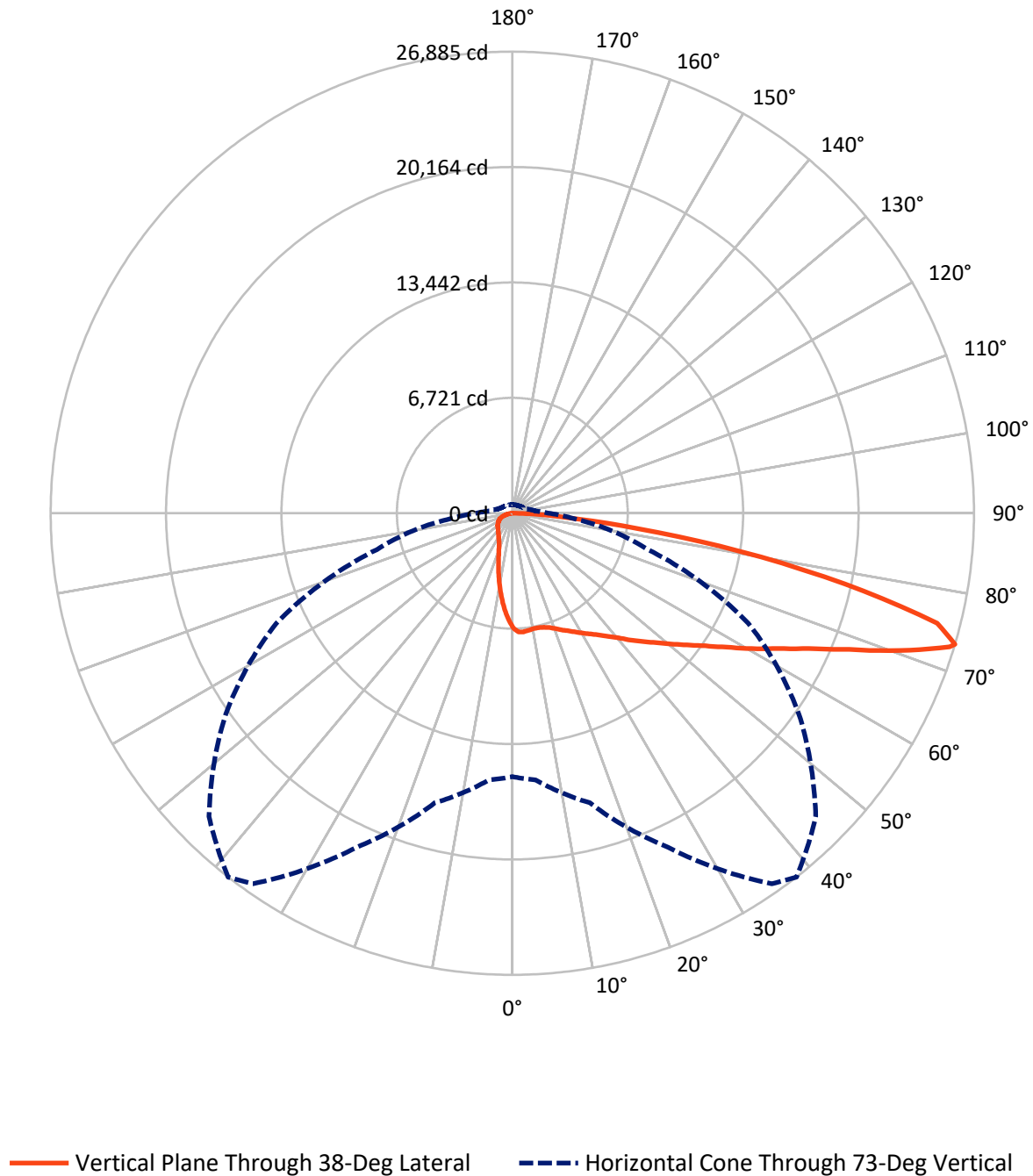
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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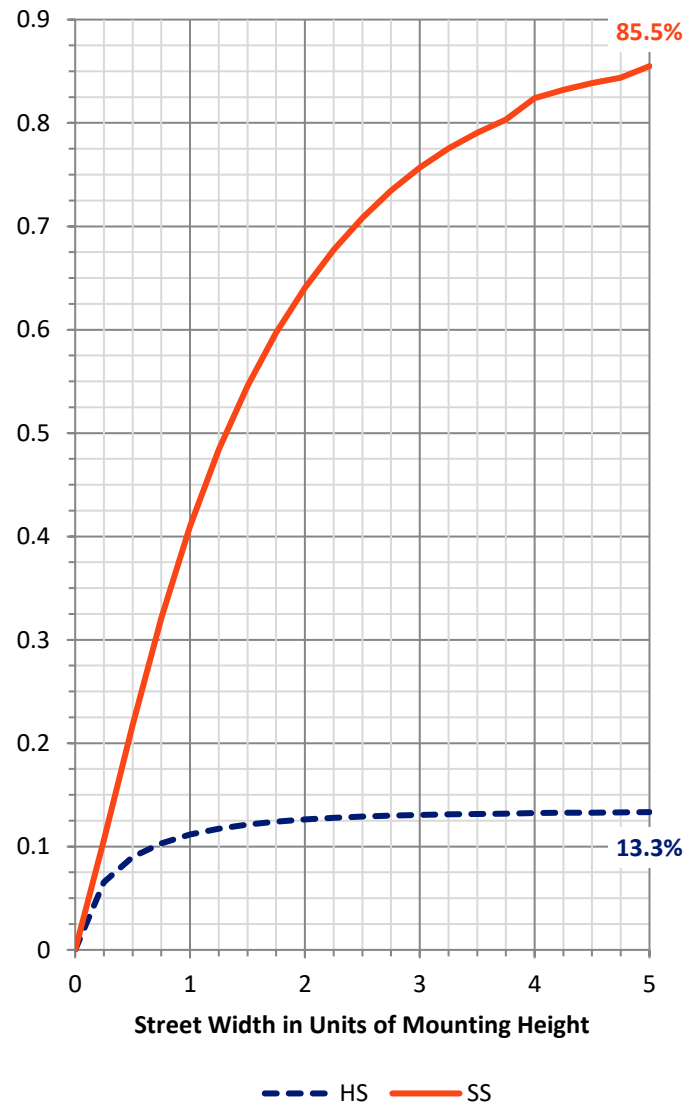
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5120.3	0.0	5120.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	32968.7	0.0	32968.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	38089.0	0.0	38089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.1	1.5
10°-20°	1497.8	3.9
20°-30°	2332.4	6.1
30°-40°	3421.1	9.0
40°-50°	5074.8	13.3
50°-60°	7190.0	18.9
60°-70°	9120.7	23.9
70°-80°	7592.3	19.9
80°-90°	1275.6	3.3
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°	38089.0	100.0
0°-180°	38089.0	100.0

Coefficient of Utilization



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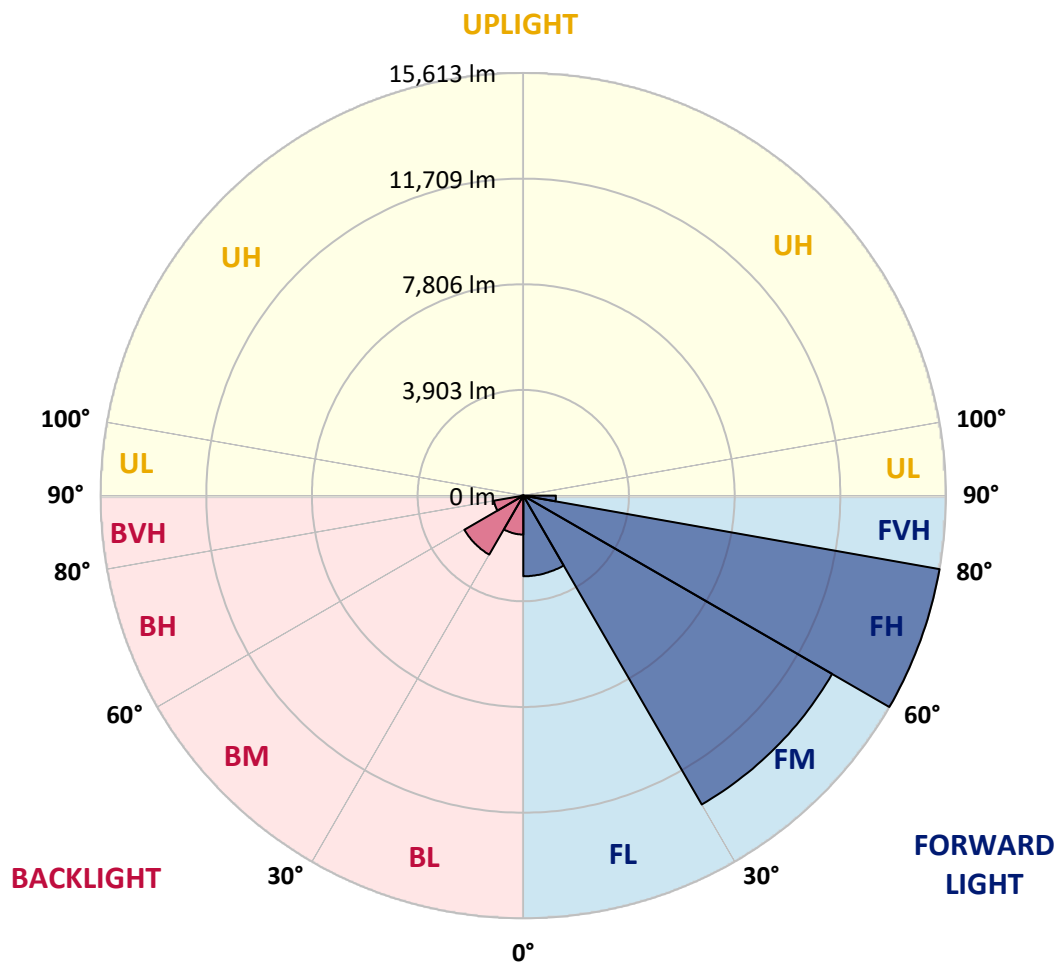
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2977.5	7.8			
FM	(30°-60°)	13172.2	34.6			
FH	(60°-80°)	15612.5	41.0			G5
FVH	(80°-90°)	1206.5	3.2			G5
BL	(0°-30°)	1436.8	3.8	B3/2500		
BM	(30°-60°)	2513.8	6.6	B3/5000		
BH	(60°-80°)	1100.6	2.9	B3/2500		G3/2500
BVH	(80°-90°)	69.2	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6691.6	6691.6	6691.6	6691.6	6691.6	6691.6	6691.6	6691.6	6691.6	6691.6	6691.6
2.5°	6960.5	6994.9	6977.7	6954.0	6939.0	6923.9	6902.4	6840.0	6790.5	6736.8	6652.9
5°	7012.1	7033.6	7018.5	6988.4	6954.0	6939.0	6898.1	6816.3	6736.8	6646.4	6521.7
7.5°	6982.0	6990.6	6973.4	6936.8	6906.7	6878.7	6831.4	6741.1	6644.3	6534.6	6371.1
10°	6874.4	6906.7	6906.7	6876.6	6846.5	6831.4	6784.1	6698.0	6609.9	6485.1	6291.5
12.5°	6786.2	6820.6	6848.6	6840.0	6837.9	6837.9	6801.3	6736.8	6633.5	6515.2	6285.1
15°	6726.0	6766.9	6827.1	6861.5	6883.0	6889.5	6874.4	6818.5	6713.1	6575.4	6310.9
17.5°	6713.1	6762.6	6872.3	6947.6	7003.5	7001.3	6997.0	6919.6	6803.4	6661.5	6343.1
20°	6771.2	6835.7	6988.4	7106.7	7188.5	7173.4	7149.7	7048.6	6913.1	6754.0	6373.3
22.5°	6945.4	7012.1	7179.9	7308.9	7388.5	7388.5	7317.5	7184.2	7040.0	6861.5	6414.1
25°	7194.9	7268.0	7446.6	7577.8	7614.3	7586.4	7515.4	7354.1	7188.5	7016.4	6500.2
27.5°	7500.3	7588.5	7754.2	7863.9	7853.1	7831.6	7758.5	7552.0	7386.3	7229.3	6646.4
30°	7881.1	7945.6	8117.7	8143.5	8104.8	8100.5	7997.2	7790.7	7635.9	7515.4	6855.1
32.5°	8240.3	8298.3	8436.0	8446.8	8377.9	8386.5	8289.7	8100.5	8012.3	7969.3	7205.7
35°	8621.0	8651.1	8769.4	8756.5	8711.3	8704.9	8666.2	8485.5	8513.4	8590.9	7702.5
37.5°	8939.3	8999.6	9066.2	9077.0	9074.8	9096.3	9122.2	9036.1	9197.4	9440.5	8354.3
40°	9231.9	9283.5	9382.4	9416.8	9500.7	9543.7	9631.9	9634.1	10006.2	10406.3	9156.6
42.5°	9429.7	9517.9	9702.9	9765.3	9969.6	10098.7	10229.9	10369.7	10909.6	11423.7	10103.0
45°	9601.8	9718.0	10025.6	10219.1	10496.6	10653.6	10931.1	11223.6	12000.1	12673.4	11064.5
47.5°	9862.1	9965.3	10318.1	10660.1	11079.5	11260.2	11675.3	12112.0	13127.2	13865.0	11985.1
50°	10223.4	10285.8	10645.0	11202.1	11737.7	11970.0	12518.5	13148.7	14331.8	15041.6	12793.8
52.5°	10685.9	10711.7	10997.8	11739.9	12445.4	12733.6	13460.6	14196.2	15385.7	16063.3	13434.8
55°	11232.2	11189.2	11412.9	12309.9	13254.1	13630.5	14411.3	15256.7	16570.9	16889.2	13901.6
57.5°	11772.1	11705.4	11884.0	13002.5	14252.2	14706.0	15615.9	16349.3	17629.2	17661.4	14228.5
60°	12344.3	12294.8	12507.7	13815.5	15476.1	16013.8	16854.8	17482.9	18653.0	18199.2	14280.1
62.5°	12931.5	12851.9	13155.2	14729.7	16854.8	17343.1	18158.3	18687.4	19657.5	18399.2	13783.3
65°	13501.5	13464.9	13933.8	15815.9	18425.0	18979.9	19771.5	20130.7	20461.9	18098.1	12550.8
67.5°	14108.1	14181.2	14929.7	17265.6	20472.7	21169.6	22023.5	21685.8	20692.1	16672.0	10569.7
70°	15033.0	15080.3	16237.5	19164.9	23111.9	23952.9	24365.9	22238.6	19582.2	13963.9	7945.6
72.5°	15430.9	15639.5	17405.5	21158.9	26110.3	26624.4	25153.2	21006.1	16312.8	9485.7	4175.0
73°	15342.7	15592.2	17459.2	21462.1	26344.8	26884.7	24985.4	20371.6	15164.2	8169.3	3579.2
75°	14243.6	14551.1	16760.2	21208.3	25888.8	25566.1	22288.1	17362.4	10247.1	3714.7	1630.4
77.5°	11238.7	11326.9	13279.9	17125.8	20386.7	19788.7	16680.6	10851.5	4185.7	1380.9	924.9
80°	5637.6	5962.4	7485.3	9810.5	13632.7	13437.0	10528.9	5132.2	1744.4	810.9	613.0
82.5°	2712.3	2942.5	3645.9	4783.7	7532.6	7354.1	5213.9	2804.8	1107.7	473.2	361.4
85°	1746.6	1918.6	2320.9	2282.2	3097.4	2957.6	2342.4	2123.0	656.0	247.4	251.7
87.5°	1152.9	1262.6	1514.3	1211.0	1127.1	1019.5	1034.6	1195.9	129.1	94.6	34.4
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°	6691.6	6691.6	6691.6	6691.6	6691.6	6691.6	6691.6	6691.6	6691.6	6691.6	6691.6
2.5°	6618.5	6590.5	6498.0	6407.7	6321.6	6239.9	6186.1	6115.1	6067.8	6080.7	6100.1
5°	6452.8	6390.5	6227.0	6067.8	5917.3	5738.7	5594.6	5478.5	5390.3	5358.0	5351.6
7.5°	6278.6	6173.2	5938.8	5665.6	5409.6	5188.1	4932.1	4805.2	4656.8	4605.2	4588.0
10°	6173.2	6031.3	5702.2	5321.4	4936.4	4568.6	4291.1	4065.3	3860.9	3822.2	3802.9
12.5°	6143.1	5956.0	5512.9	5022.5	4510.5	4058.8	3648.0	3351.2	3153.3	3108.1	3041.4
15°	6125.9	5893.6	5336.5	4721.3	4071.7	3521.1	3088.8	2742.5	2561.8	2441.3	2443.5
17.5°	6110.8	5822.6	5138.6	4392.2	3693.2	3058.6	2581.1	2269.2	2103.6	2039.1	2032.6
20°	6089.3	5738.7	4910.6	4045.9	3260.8	2637.1	2204.7	1972.4	1860.6	1806.8	1804.6
22.5°	6080.7	5657.0	4686.9	3693.2	2878.0	2312.3	1955.2	1791.7	1720.8	1684.2	1684.2
25°	6102.2	5598.9	4452.5	3357.6	2538.1	2034.8	1783.1	1671.3	1630.4	1611.1	1604.6
27.5°	6168.9	5573.1	4220.2	3022.1	2226.2	1845.5	1667.0	1589.5	1559.4	1544.4	1546.5
30°	6295.8	5570.9	3992.2	2690.8	1993.9	1701.4	1574.5	1520.7	1497.1	1488.5	1486.3
32.5°	6500.2	5618.3	3768.5	2417.7	1798.2	1580.9	1488.5	1449.7	1439.0	1432.5	1430.4
35°	6846.5	5751.6	3546.9	2168.2	1647.6	1473.4	1406.7	1387.4	1372.3	1378.8	1380.9
37.5°	7313.2	5981.8	3336.1	1972.4	1533.6	1393.8	1337.9	1320.7	1312.1	1318.5	1325.0
40°	7939.1	6313.0	3159.7	1815.4	1451.9	1327.1	1277.7	1262.6	1254.0	1264.8	1266.9
42.5°	8629.6	6695.9	3013.5	1692.8	1385.2	1271.2	1223.9	1206.7	1200.2	1206.7	1208.8
45°	9339.4	7141.1	2938.2	1604.6	1329.3	1230.3	1180.9	1161.5	1146.5	1142.2	1148.6
47.5°	10038.5	7528.3	2936.0	1550.8	1284.1	1193.8	1140.0	1118.5	1099.1	1088.4	1086.2
50°	10608.5	7835.9	2987.7	1527.2	1245.4	1152.9	1099.1	1077.6	1051.8	1030.3	1034.6
52.5°	11038.7	8035.9	3011.3	1516.4	1223.9	1109.9	1056.1	1036.8	1006.6	978.7	978.7
55°	11316.1	8083.3	2953.2	1505.7	1206.7	1064.7	1006.6	989.4	959.3	931.4	931.4
57.5°	11410.8	7937.0	2744.6	1479.9	1189.5	1026.0	957.2	942.1	918.5	890.5	886.2
60°	11191.4	7442.3	2378.9	1402.4	1155.1	985.1	903.4	896.9	888.3	864.7	862.5
62.5°	10346.0	6392.6	1981.0	1301.3	1097.0	942.1	853.9	864.7	871.1	858.2	856.1
65°	8939.3	5190.2	1692.8	1161.5	1019.5	881.9	800.2	828.1	845.3	845.3	841.0
67.5°	7250.8	3985.7	1426.1	1041.1	922.8	800.2	739.9	761.4	774.3	770.0	780.8
70°	5153.7	2699.4	1161.5	903.4	800.2	707.7	662.5	662.5	653.9	649.6	649.6
72.5°	2499.4	1542.2	942.1	755.0	681.8	604.4	567.8	552.8	535.6	533.4	522.7
73°	2088.6	1383.1	899.1	727.0	653.9	589.4	548.5	524.8	514.1	505.5	503.3
75°	1271.2	1049.7	750.7	613.0	557.1	507.6	471.1	449.5	438.8	432.3	430.2
77.5°	836.7	782.9	582.9	468.9	425.9	395.8	380.7	359.2	352.8	344.2	344.2
80°	623.8	598.0	417.3	331.2	305.4	279.6	275.3	271.0	253.8	243.1	238.8
82.5°	402.2	425.9	283.9	221.5	193.6	172.1	174.2	180.7	163.5	148.4	144.1
85°	286.1	307.6	172.1	101.1	81.7	71.0	79.6	71.0	73.1	58.1	47.3
87.5°	47.3	81.7	30.1	12.9	6.5	4.3	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)