

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: P534163

Luminaire Tested: **GALN-SA9C-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25902 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

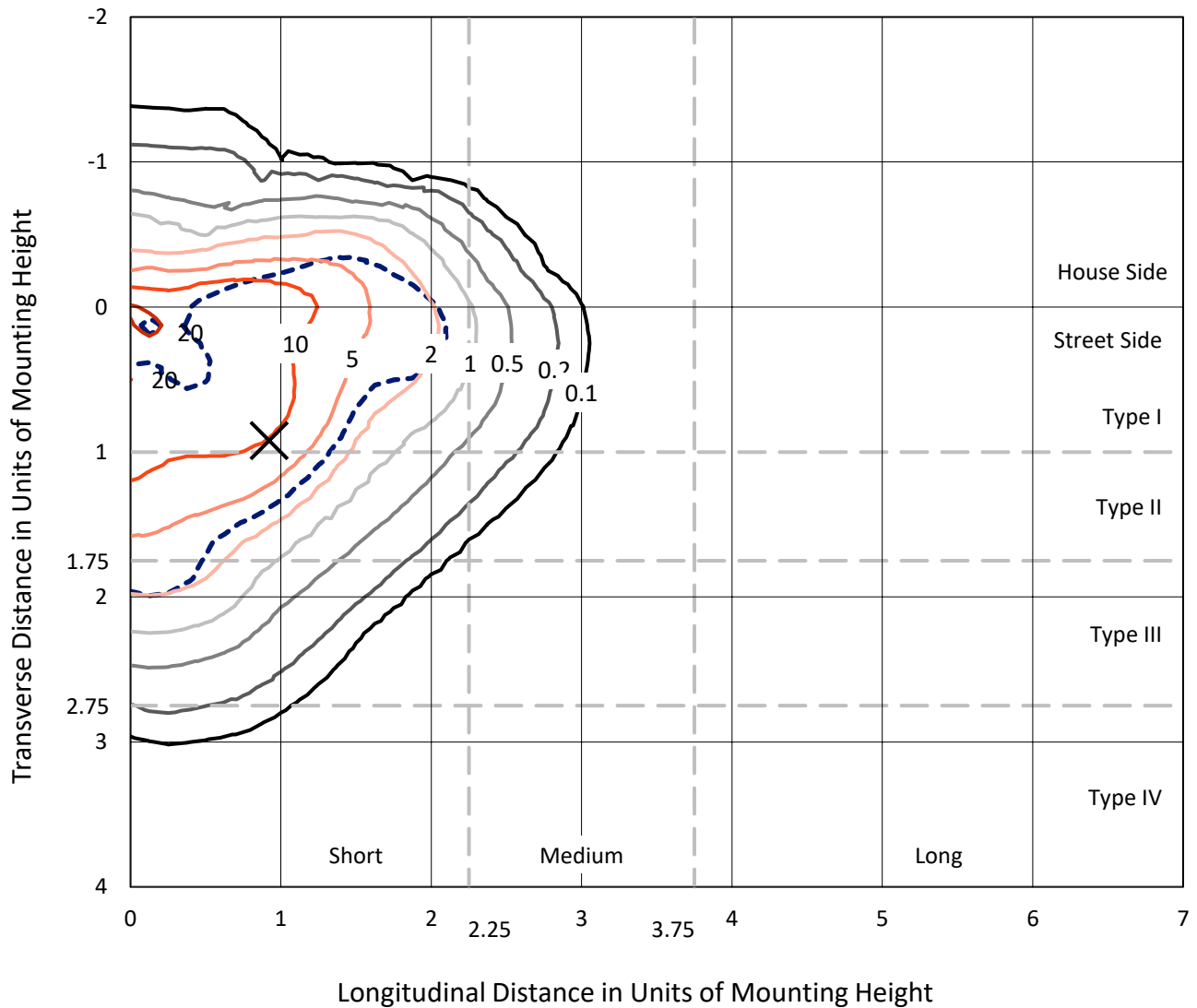
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

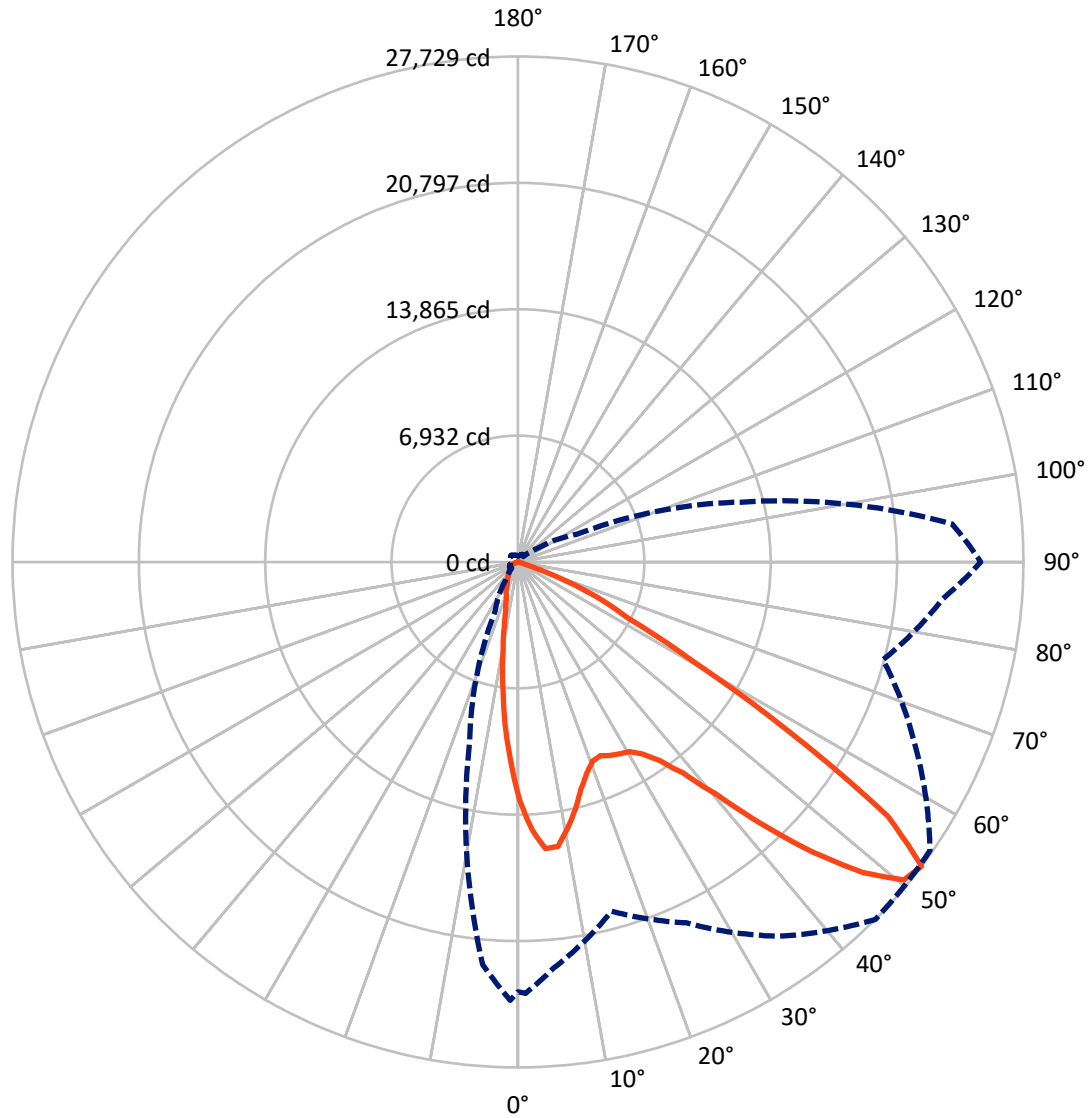
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5256.8	0.0	5256.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	20645.2	0.0	20645.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	25902.0	0.0	25902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	957.8	3.7
10°-20°	1889.7	7.3
20°-30°	2875.8	11.1
30°-40°	4298.3	16.6
40°-50°	6121.1	23.6
50°-60°	6580.0	25.4
60°-70°	2915.8	11.3
70°-80°	235.9	0.9
80°-90°	27.5	0.1
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°	25902.0	100.0
0°-180°	25902.0	100.0

Coefficient of Utilization

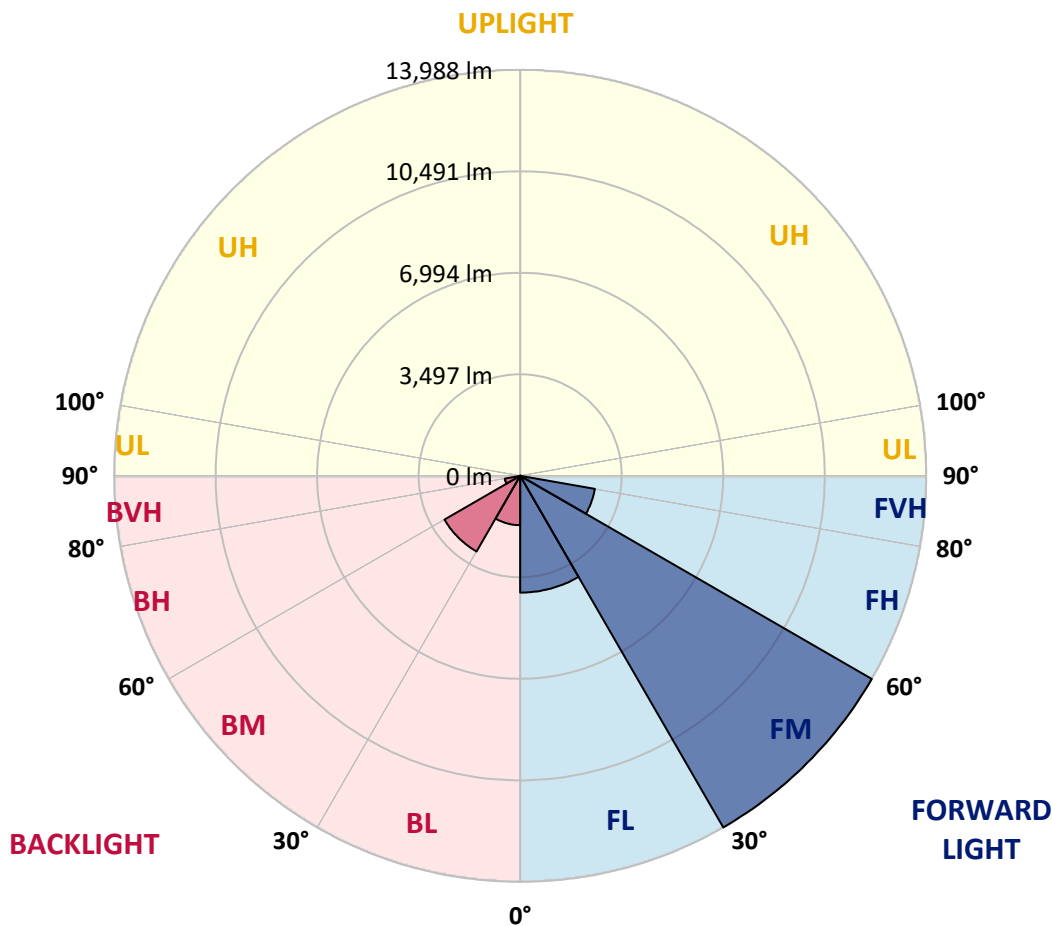


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4023.1	15.5			
FM (30°-60°)	13987.9	54.0			
FH (60°-80°)	2613.8	10.1			G2/5000
FVH (80°-90°)	20.4	0.1			G1/100
BL (0°-30°)	1700.3	6.6	B3/2500		
BM (30°-60°)	3011.6	11.6	B3/5000		
BH (60°-80°)	537.9	2.1	B2/1000		G2/1000
BVH (80°-90°)	7.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5
2.5°	13897.7	13938.4	14162.6	14442.8	14590.5	14926.8	14692.4	14753.6	14626.2	14177.9	13826.4
5°	13474.8	13469.8	13755.0	14447.9	15105.1	15772.4	15792.8	15436.2	14809.6	14121.8	13138.6
7.5°	12201.2	12399.9	12695.4	13800.9	15018.5	15517.7	15757.2	15339.4	14376.6	13393.3	12328.6
10°	11238.4	11340.3	11839.5	13174.3	14065.8	14733.2	14880.9	14641.5	13902.8	12675.0	11482.9
12.5°	10683.1	10734.0	11319.9	12440.7	13383.1	13877.3	13948.6	14060.7	13530.9	12379.5	10948.0
15°	10688.2	10728.9	11518.6	12456.0	12827.9	12695.4	12929.7	12924.6	13153.9	12323.5	11396.3
17.5°	11457.4	11503.3	12216.5	12680.1	12517.1	12206.3	12191.0	12425.4	12909.4	13021.4	12073.9
20°	12782.0	12889.0	13413.7	13388.2	12471.2	11844.6	11671.4	11849.7	12975.6	13612.4	13439.2
22.5°	14565.1	14712.8	15079.6	14376.6	12680.1	11600.1	11544.0	11890.5	13413.7	14931.9	14987.9
25°	16633.4	16883.0	17061.3	16159.6	13423.9	12022.9	11758.0	12354.1	14004.7	16363.4	16959.5
27.5°	18003.8	18263.6	18222.9	16934.0	13923.2	12135.0	11910.8	12466.1	14519.2	16704.7	17988.5
30°	19073.7	19231.6	19516.9	17351.7	14422.4	12450.9	12068.8	12939.9	14687.3	17295.7	19231.6
32.5°	20321.8	20428.8	20449.2	18090.4	15191.7	12848.2	12557.8	13530.9	15431.1	17861.2	20332.0
35°	21580.1	21738.1	21406.9	19002.3	15665.5	13586.9	13373.0	14554.9	16027.2	18447.0	21544.5
37.5°	22945.4	23027.0	22262.8	19379.3	16343.0	14789.2	14672.0	15660.4	17061.3	19506.7	22889.4
40°	24091.7	24168.1	23174.7	19842.9	17056.3	16470.4	16771.0	17769.5	18467.4	20194.4	23561.9
42.5°	24728.5	24906.8	23480.4	19588.2	18487.8	18375.7	19710.5	20062.0	20097.6	20388.0	24163.0
45°	24901.7	24820.2	22976.0	19797.1	19741.0	21508.8	22721.3	23184.9	21717.7	20744.6	24315.9
47.5°	24101.9	24208.9	22232.2	19613.7	21386.5	23882.8	25451.9	26312.9	22925.1	20433.9	23938.9
50°	23454.9	23317.3	21992.8	19481.2	21829.8	25003.6	27423.5	27617.1	24035.7	20816.0	23526.2
52.5°	23582.3	23668.9	22374.9	19832.7	21840.0	25069.8	27729.1	27596.7	24071.3	20729.4	23378.5
55°	23852.3	23470.2	22211.8	19058.4	20377.8	23220.5	24611.3	24407.6	22216.9	19807.3	23016.8
57.5°	20581.6	21172.6	20423.7	17015.5	16725.1	17494.4	17468.9	18095.5	16572.3	17046.1	20953.5
60°	16704.7	16806.6	17086.8	14554.9	11574.6	11309.7	10942.9	10545.5	11151.8	14575.3	19058.4
62.5°	14692.4	14570.2	15568.7	13240.5	8171.5	6841.9	6780.7	7025.3	8604.5	13902.8	17876.5
65°	10678.0	10830.8	11554.2	10275.5	6133.7	5221.8	5130.1	5853.5	6964.1	11141.6	13643.0
67.5°	6520.9	6816.4	6882.6	6337.5	4162.2	3306.3	3173.8	3831.0	5028.2	7208.7	7998.3
70°	3010.8	3367.4	3703.7	3459.1	2409.7	1360.2	1283.8	1609.8	2537.0	4146.9	4243.7
72.5°	911.9	917.0	1283.8	1339.8	779.5	305.7	270.0	356.6	861.0	1370.4	1441.7
75°	66.2	71.3	173.2	198.7	147.7	76.4	81.5	96.8	183.4	305.7	229.3
77.5°	5.1	5.1	5.1	25.5	45.9	50.9	66.2	76.4	96.8	112.1	101.9
80°	5.1	0.0	5.1	20.4	35.7	50.9	61.1	71.3	76.4	86.6	76.4
82.5°	0.0	0.0	0.0	15.3	35.7	50.9	56.0	76.4	86.6	101.9	86.6
85°	0.0	0.0	0.0	15.3	35.7	56.0	50.9	25.5	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5
2.5°	13887.5	13688.8	13235.4	13006.2	12466.1	12389.7	11859.9	11773.3	11595.0	11498.2	11263.9
5°	12705.6	12466.1	11727.4	11105.9	10382.5	9878.2	9491.0	9139.5	8935.7	8747.2	8833.8
7.5°	11742.7	11044.8	10224.6	9185.3	8349.8	7809.8	7218.8	6734.9	6449.6	6256.0	6301.8
10°	10734.0	10280.6	9139.5	7972.8	6964.1	6582.0	6118.4	5746.6	5344.1	4997.7	4834.6
12.5°	10418.2	9745.7	8314.2	7127.1	6363.0	5991.1	5461.3	5033.3	4518.8	4095.9	3948.2
15°	10474.2	9827.2	8090.0	6821.5	5919.8	5277.9	4646.1	4116.3	3550.8	3255.4	3102.5
17.5°	11386.1	10265.3	8237.7	6500.5	5303.3	4411.8	3632.4	2959.9	2537.0	2231.4	2165.1
20°	12506.9	11212.9	8553.6	6266.2	4799.0	3510.1	2654.2	2073.4	1721.9	1671.0	1655.7
22.5°	14147.3	12761.6	9231.2	6108.3	4182.6	2735.7	1818.7	1508.0	1411.2	1401.0	1406.1
25°	16439.8	14702.6	9969.9	5975.8	3719.0	2109.1	1487.6	1278.7	1248.1	1232.9	1258.3
27.5°	17433.2	15874.3	10362.1	5690.5	3296.1	1900.2	1467.2	1268.5	1181.9	1156.4	1171.7
30°	18661.0	16653.8	10978.6	5201.4	2674.6	1564.0	1370.4	1380.6	1339.8	1212.5	1171.7
32.5°	20291.2	17626.8	11289.3	4855.0	2389.3	1294.0	1003.6	922.1	1029.1	1049.5	1085.1
35°	21335.6	18615.2	11447.3	4651.2	2241.6	1105.5	850.8	774.4	748.9	754.0	774.4
37.5°	23276.6	19949.9	11645.9	4437.3	2129.5	962.9	769.3	697.9	662.3	662.3	682.7
40°	24438.1	21009.6	11915.9	4320.1	2017.4	876.2	697.9	636.8	606.2	606.2	616.4
42.5°	24728.5	21534.3	11824.2	4279.3	1890.0	855.9	636.8	591.0	555.3	550.2	545.1
45°	25248.1	22334.1	11839.5	4233.5	1757.6	779.5	601.1	550.2	499.3	494.2	489.1
47.5°	25818.7	22909.8	11870.1	4055.2	1630.2	652.1	626.6	509.4	448.3	438.1	438.1
50°	25329.7	23368.3	12135.0	3876.9	1467.2	529.8	616.4	478.9	397.4	382.1	387.2
52.5°	25390.8	23908.3	12695.4	3627.3	1263.4	422.8	499.3	453.4	361.7	336.2	341.3
55°	24412.7	23337.7	12771.8	3362.3	988.3	326.0	382.1	397.4	305.7	295.5	295.5
57.5°	21014.6	19761.4	11268.9	2725.5	652.1	270.0	275.1	346.4	264.9	254.7	259.8
60°	17983.4	15864.1	9068.1	1798.3	407.6	214.0	198.7	351.5	234.3	229.3	244.5
62.5°	16394.0	13036.7	6877.5	1115.7	280.2	163.0	137.6	285.3	203.8	203.8	224.2
65°	11844.6	8757.4	3999.2	585.9	198.7	127.4	101.9	163.0	168.1	173.2	183.4
67.5°	7336.0	4422.0	1686.3	285.3	132.5	86.6	66.2	101.9	112.1	112.1	122.3
70°	3622.2	1762.7	560.4	163.0	101.9	71.3	45.9	56.0	56.0	50.9	56.0
72.5°	1120.8	529.8	142.6	101.9	71.3	45.9	25.5	20.4	10.2	0.0	5.1
75°	127.4	101.9	91.7	71.3	45.9	20.4	5.1	0.0	0.0	0.0	0.0
77.5°	76.4	86.6	86.6	71.3	45.9	15.3	0.0	0.0	0.0	0.0	0.0
80°	61.1	66.2	71.3	66.2	40.8	20.4	0.0	0.0	0.0	0.0	0.0
82.5°	76.4	86.6	96.8	86.6	56.0	25.5	10.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	15.3	5.1	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5
2.5°	11167.1	11055.0	11212.9	10978.6	10973.5	10978.6	10912.3	10851.2	10948.0	11207.8	11233.3
5°	8523.0	8762.5	8838.9	9088.5	8951.0	8747.2	8787.9	8650.4	8986.6	9134.4	9017.2
7.5°	6205.1	6189.8	6704.3	6734.9	6801.1	6806.2	6796.0	6526.0	6250.9	6312.0	6495.4
10°	4814.3	4554.4	4804.1	4778.6	4941.6	4895.8	4962.0	4671.6	4768.4	4768.4	4885.6
12.5°	3922.7	3647.6	3601.8	3535.6	3601.8	3627.3	3652.7	3596.7	3759.7	3836.1	3917.6
15°	2995.5	2842.7	2802.0	2674.6	2695.0	2766.3	2827.4	2852.9	2802.0	2919.1	2929.3
17.5°	2175.3	2170.2	2195.7	2190.6	2170.2	2155.0	2149.9	2083.6	2063.3	2073.4	2114.2
20°	1650.6	1691.4	1778.0	1864.6	1910.4	1854.4	1778.0	1665.9	1620.0	1630.2	1635.3
22.5°	1411.2	1472.3	1589.5	1686.3	1732.1	1630.2	1492.7	1395.9	1375.5	1370.4	1365.3
25°	1278.7	1350.0	1436.6	1467.2	1462.1	1401.0	1299.1	1258.3	1248.1	1238.0	1192.1
27.5°	1207.4	1232.9	1248.1	1283.8	1299.1	1258.3	1232.9	1171.7	1161.5	1161.5	1131.0
30°	1166.6	1151.3	1171.7	1146.3	1166.6	1136.1	1141.2	1141.2	1115.7	1125.9	1125.9
32.5°	1085.1	1090.2	1090.2	1039.3	1054.6	1018.9	1054.6	1085.1	1090.2	1095.3	1136.1
35°	794.7	886.4	932.3	932.3	947.6	922.1	917.0	881.3	835.5	789.6	769.3
37.5°	697.9	733.6	794.7	830.4	855.9	835.5	789.6	733.6	708.1	687.8	667.4
40°	621.5	652.1	692.8	733.6	784.5	759.1	687.8	662.3	631.7	631.7	611.3
42.5°	560.4	575.7	601.1	662.3	718.3	667.4	616.4	596.1	580.8	575.7	570.6
45°	504.4	509.4	534.9	585.9	652.1	601.1	550.2	524.7	529.8	534.9	529.8
47.5°	453.4	463.6	478.9	540.0	580.8	555.3	499.3	484.0	484.0	484.0	489.1
50°	392.3	417.7	448.3	499.3	529.8	514.5	468.7	448.3	438.1	438.1	443.2
52.5°	351.5	371.9	412.7	473.8	514.5	489.1	443.2	412.7	392.3	387.2	397.4
55°	305.7	341.3	407.6	453.4	509.4	484.0	433.0	397.4	361.7	356.6	356.6
57.5°	275.1	331.1	392.3	448.3	494.2	473.8	433.0	387.2	341.3	336.2	336.2
60°	259.8	321.0	382.1	433.0	494.2	463.6	427.9	377.0	326.0	326.0	321.0
62.5°	244.5	300.6	361.7	412.7	473.8	448.3	412.7	361.7	310.8	310.8	300.6
65°	203.8	259.8	300.6	346.4	412.7	387.2	351.5	315.9	275.1	264.9	270.0
67.5°	142.6	178.3	219.1	264.9	305.7	295.5	280.2	254.7	219.1	214.0	208.9
70°	71.3	96.8	132.5	178.3	214.0	203.8	193.6	173.2	152.8	147.7	147.7
72.5°	10.2	30.6	56.0	81.5	112.1	117.2	112.1	107.0	101.9	96.8	101.9
75°	0.0	0.0	0.0	20.4	45.9	56.0	66.2	76.4	76.4	66.2	81.5
77.5°	0.0	0.0	0.0	0.0	5.1	25.5	50.9	66.2	81.5	71.3	96.8
80°	0.0	0.0	0.0	0.0	5.1	30.6	50.9	71.3	81.5	71.3	101.9
82.5°	0.0	0.0	0.0	0.0	5.1	35.7	50.9	66.2	76.4	71.3	91.7
85°	0.0	0.0	0.0	0.0	15.3	30.6	20.4	10.2	5.1	5.1	15.3
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5	13133.5
2.5°	11375.9	11737.6	12124.8	12272.6	12731.1	13077.5	13311.8	13816.2	13892.6	13897.7
5°	9139.5	9322.9	9985.1	10295.9	10978.6	11508.4	12073.9	12889.0	13434.1	13474.8
7.5°	6495.4	7004.9	7285.1	8095.1	8935.7	9766.1	10606.7	11554.2	12185.9	12201.2
10°	5226.9	5558.1	6057.3	6663.6	7371.7	8217.4	9338.1	10438.5	11080.5	11238.4
12.5°	4208.0	4788.8	5359.4	5986.0	6526.0	7162.8	8370.2	9837.4	10367.2	10683.1
15°	3240.1	3769.9	4442.4	5176.0	5787.3	6638.1	8013.6	9689.7	10581.2	10688.2
17.5°	2389.3	2863.1	3484.6	4177.5	5094.5	6301.8	8074.7	10438.5	11279.1	11457.4
20°	1716.8	1991.9	2481.0	3285.9	4452.6	5909.6	8135.9	11197.6	12476.3	12782.0
22.5°	1360.2	1472.3	1793.2	2506.5	3734.2	5496.9	8568.9	12649.5	14121.8	14565.1
25°	1181.9	1243.0	1395.9	1976.7	3280.8	5456.2	9261.7	14391.8	16312.5	16633.4
27.5°	1141.2	1151.3	1283.8	1813.6	3036.3	5186.2	9526.6	15629.8	17677.8	18003.8
30°	1202.3	1365.3	1375.5	1533.4	2582.9	4651.2	9664.2	16827.0	18834.2	19073.7
32.5°	1039.3	988.3	1024.0	1187.0	2272.1	4340.5	9924.0	17871.4	20153.7	20321.8
35°	723.4	759.1	840.6	1029.1	1986.8	4014.4	9990.2	19022.7	21406.9	21580.1
37.5°	667.4	687.8	754.0	876.2	1747.4	3831.0	9898.5	19863.3	22706.0	22945.4
40°	621.5	647.0	682.7	794.7	1569.1	3627.3	9771.2	20622.4	23500.7	24091.7
42.5°	585.9	606.2	636.8	759.1	1416.3	3423.5	9592.9	21692.2	24214.0	24728.5
45°	545.1	575.7	611.3	738.7	1329.7	3285.9	9460.4	21626.0	24626.6	24901.7
47.5°	504.4	555.3	596.1	687.8	1304.2	3219.7	9516.5	21376.4	24290.4	24101.9
50°	463.6	529.8	601.1	570.6	1243.0	3087.2	9582.7	21717.7	23490.6	23454.9
52.5°	427.9	504.4	560.4	468.7	1105.5	2959.9	10224.6	22166.0	24056.0	23582.3
55°	377.0	453.4	448.3	377.0	896.6	2863.1	10728.9	22176.2	23674.0	23852.3
57.5°	341.3	402.5	351.5	315.9	662.3	2394.4	9908.7	18594.8	20265.8	20581.6
60°	315.9	392.3	264.9	249.6	433.0	1727.0	8650.4	14402.0	16108.7	16704.7
62.5°	290.4	371.9	208.9	203.8	300.6	1227.8	7111.9	12053.5	13882.4	14692.4
65°	254.7	264.9	168.1	157.9	214.0	662.3	4330.3	8298.9	10377.4	10678.0
67.5°	208.9	203.8	137.6	127.4	142.6	321.0	1910.4	4157.1	6016.6	6520.9
70°	168.1	168.1	117.2	101.9	101.9	147.7	499.3	1655.7	2720.4	3010.8
72.5°	122.3	127.4	91.7	81.5	76.4	71.3	81.5	331.1	713.2	911.9
75°	107.0	112.1	91.7	71.3	56.0	45.9	35.7	30.6	40.8	66.2
77.5°	117.2	117.2	96.8	66.2	50.9	35.7	20.4	10.2	10.2	5.1
80°	147.7	152.8	127.4	86.6	61.1	40.8	25.5	10.2	5.1	5.1
82.5°	157.9	173.2	142.6	107.0	76.4	45.9	25.5	5.1	0.0	0.0
85°	40.8	66.2	112.1	96.8	76.4	45.9	25.5	5.1	0.0	0.0
87.5°	0.0	5.1	15.3	15.3	20.4	20.4	15.3	5.1	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

(END OF REPORT)