

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: P453509

Luminaire Tested: **GALN-SA4C-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23973 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

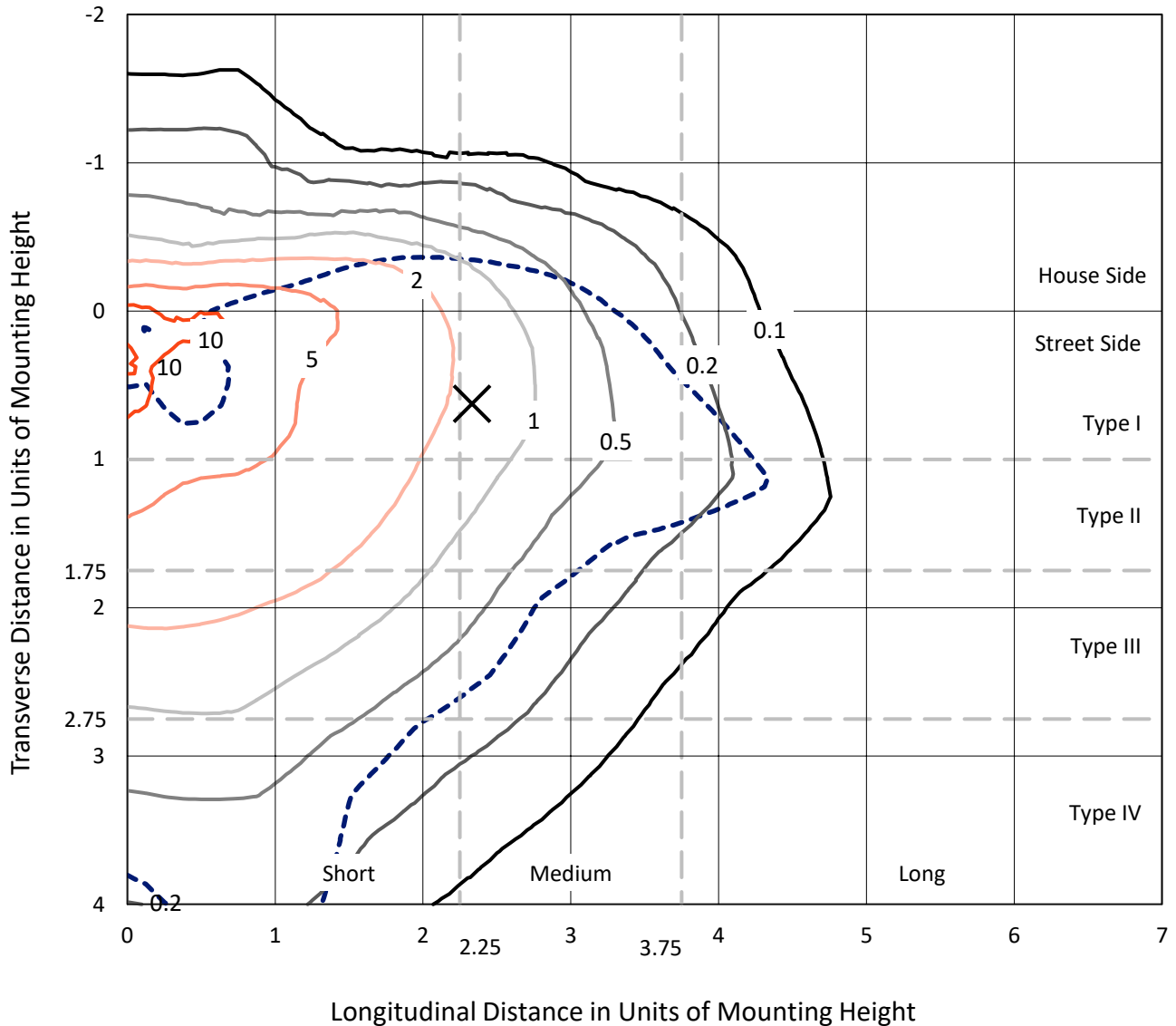
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

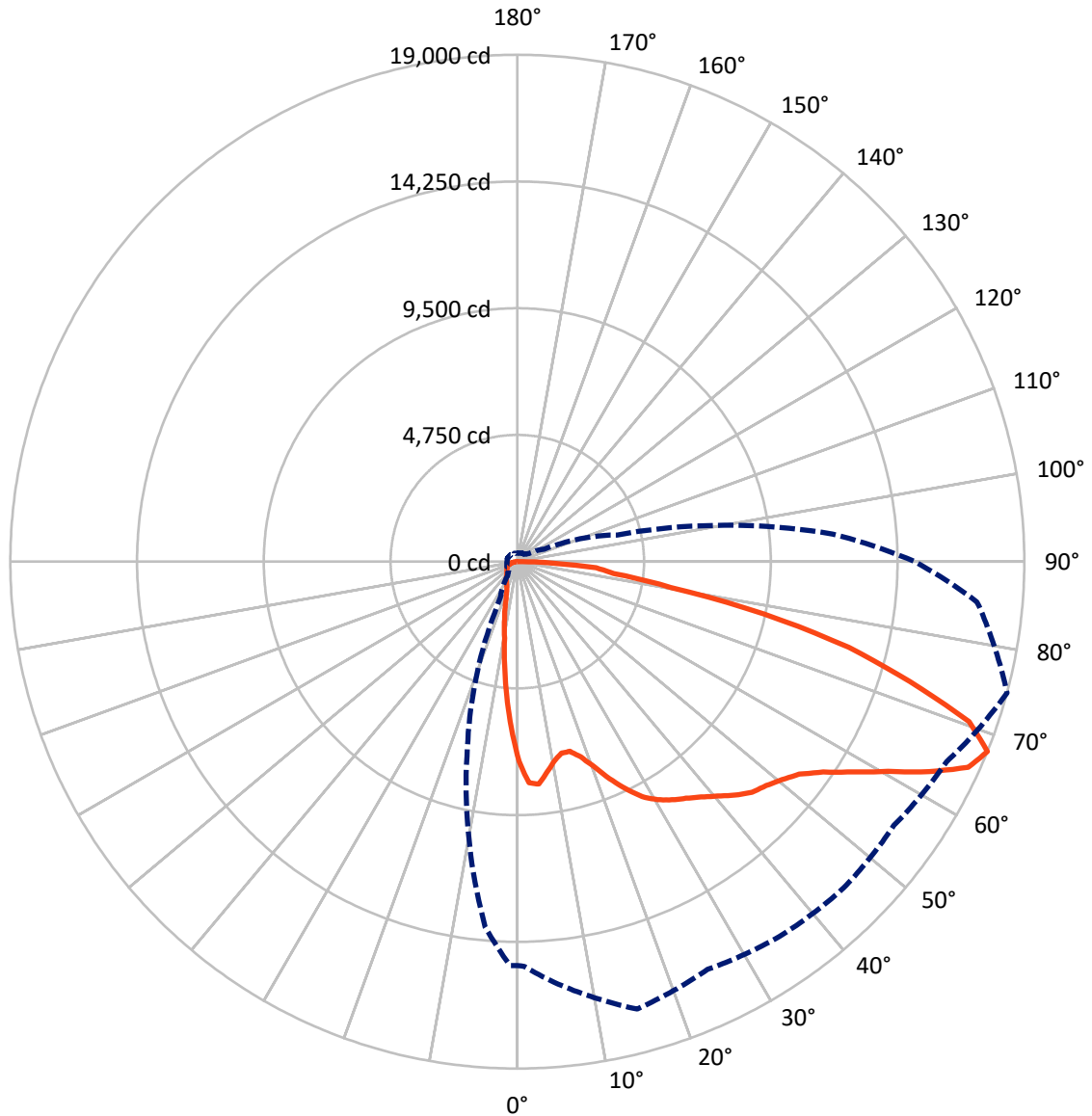
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4051.9	0.0	4051.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	19921.1	0.0	19921.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	23973.0	0.0	23973.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.1	2.4
10°-20°	1184.7	4.9
20°-30°	1704.9	7.1
30°-40°	2455.5	10.2
40°-50°	3449.3	14.4
50°-60°	4810.5	20.1
60°-70°	5719.4	23.9
70°-80°	3368.4	14.1
80°-90°	712.3	3.0
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°	23973.0	100.0
0°-180°	23973.0	100.0

Coefficient of Utilization



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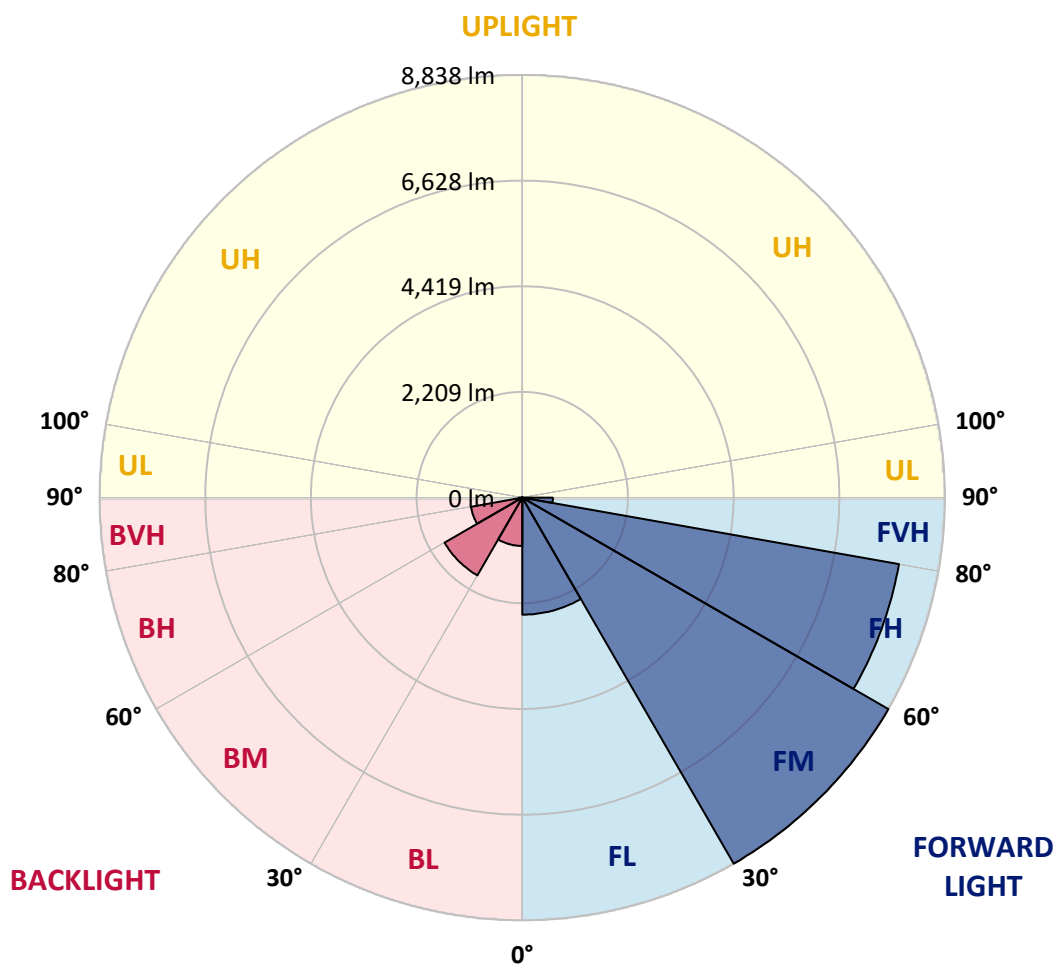
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2447.0	10.2			
FM	(30°-60°)	8838.0	36.9			
FH	(60°-80°)	7997.5	33.4			G4/12000
FVH	(80°-90°)	638.6	2.7			G4/750
BL	(0°-30°)	1010.7	4.2	B3/2500		
BM	(30°-60°)	1877.3	7.8	B2/2500		
BH	(60°-80°)	1090.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	73.7	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7
2.5°	8075.4	8086.2	8155.4	8356.8	8495.1	8545.9	8581.2	8515.1	8450.5	8293.7	8057.0
5°	8050.8	8113.9	8293.7	8745.7	9102.4	9256.1	9302.2	9103.9	8776.5	8373.7	7889.4
7.5°	7580.4	7665.0	7941.7	8699.6	9328.3	9688.1	9640.4	9282.2	8691.9	7974.0	7297.6
10°	7022.4	7116.2	7449.8	8366.0	9176.2	9671.2	9671.2	9234.6	8450.5	7597.3	6817.9
12.5°	6579.7	6678.0	7059.3	8023.2	8859.5	9328.3	9406.7	9031.6	8276.8	7359.1	6502.8
15°	6433.6	6528.9	6939.4	7815.6	8524.3	8810.3	8836.4	8713.4	8192.3	7376.0	6488.9
17.5°	6615.0	6738.0	7153.1	7877.1	8216.9	8233.8	8253.8	8350.6	8201.5	7685.0	6768.7
20°	7139.2	7271.4	7705.0	8075.4	7947.8	7772.6	7783.4	8032.4	8310.7	8195.4	7437.5
22.5°	7895.6	8010.9	8455.2	8424.4	7834.1	7472.8	7397.5	7744.9	8472.1	8831.8	8149.2
25°	8711.9	8847.2	9357.6	8942.5	7866.4	7294.5	7246.8	7575.8	8639.6	9426.7	8971.7
27.5°	9646.6	9778.8	10181.5	9465.2	8035.5	7280.7	7223.8	7560.4	8790.3	9977.1	9757.3
30°	10341.4	10462.9	10736.5	9904.8	8243.0	7372.9	7302.2	7681.9	8919.4	10353.7	10522.8
32.5°	10887.2	11013.2	11162.3	10178.5	8516.6	7540.5	7409.8	7903.3	9088.5	10641.2	11090.1
35°	11456.0	11605.1	11594.3	10421.4	8771.8	7734.2	7606.6	8223.0	9354.5	10891.8	11809.5
37.5°	12177.0	12236.9	12160.1	10639.7	9077.8	8083.1	8012.4	8698.1	9732.7	11194.6	12650.5
40°	12908.7	13028.6	12633.5	10904.1	9449.8	8739.6	8731.9	9400.6	10181.5	11549.7	13465.2
42.5°	13535.9	13637.4	13076.3	11134.7	9900.2	9540.5	9598.9	10343.0	10770.3	11961.7	14120.1
45°	14007.9	14098.6	13485.2	11357.6	10493.6	10465.9	10810.3	11353.0	11512.9	12332.2	14504.4
47.5°	14409.1	14496.8	13769.6	11695.8	11226.9	11571.3	12170.8	12406.0	12147.8	12544.4	14934.9
50°	14747.3	14773.5	13964.8	12098.6	12137.0	12925.6	13506.7	13658.9	12775.0	12848.8	15308.4
52.5°	15099.4	15065.6	14301.5	12605.9	13120.9	14210.8	14633.6	14791.9	13376.1	13223.9	15852.7
55°	15888.0	15920.3	15056.3	13245.4	14115.5	15472.9	16029.4	15877.2	14041.7	13914.1	16544.4
57.5°	16841.1	16813.5	16118.6	14246.2	15128.6	16647.4	17062.5	16818.1	14930.3	14862.6	17245.4
60°	17211.6	17248.5	17007.2	15322.3	16127.8	17675.9	18100.2	17720.5	15995.6	15964.9	17774.3
62.5°	16839.6	17047.1	17210.1	16280.0	16979.5	18432.2	18853.5	18419.9	17107.1	17330.0	18144.8
65°	16098.6	16143.2	16698.2	17091.7	17390.0	18556.8	18776.6	18546.0	18035.6	18573.7	18127.9
67.5°	15136.3	15174.7	15825.0	17357.7	16861.1	17142.4	17296.2	17228.5	17748.1	18999.5	17293.1
70°	14220.0	14189.3	14876.5	16679.7	14678.2	14250.8	14378.4	14166.2	15314.6	17958.8	15655.9
72.5°	12436.8	12547.5	13285.4	14795.0	11622.0	10927.1	11205.4	10656.6	11778.8	15380.7	12707.3
75°	9741.9	9768.0	10999.4	12416.8	8767.2	7671.1	8047.8	7818.7	9022.4	12830.3	8774.9
77.5°	6745.7	6687.3	8010.9	9483.6	6252.2	5615.8	5621.9	5512.8	6299.9	9446.7	5961.7
80°	4284.5	4195.3	5014.7	5858.7	4296.8	4596.5	4445.9	4441.3	4101.5	5827.9	3605.0
82.5°	2315.2	2413.6	3168.4	3672.6	3082.3	3552.7	3256.0	3160.7	2814.8	3648.0	2306.0
85°	1054.6	1146.8	1689.5	2498.1	2341.3	2367.4	1581.9	1866.3	2329.0	2962.4	1231.4
87.5°	103.0	132.2	349.0	1179.1	799.4	630.3	235.2	453.5	585.7	1053.1	98.4
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°	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7
2.5°	7960.1	7880.2	7608.1	7383.7	7145.4	6964.0	6727.2	6568.9	6459.7	6295.2	6275.3
5°	7594.3	7399.0	6925.5	6442.8	6026.2	5712.6	5394.4	5102.3	4930.1	4876.3	4807.1
7.5°	6977.8	6648.8	6040.1	5486.6	5008.5	4541.2	4181.5	3926.3	3755.6	3655.7	3535.8
10°	6470.5	6089.3	5348.3	4670.3	4276.8	3986.2	3669.5	3395.9	3185.3	3005.4	2907.0
12.5°	6129.2	5698.8	4865.6	4315.2	4010.8	3701.8	3331.3	3023.9	2713.3	2508.9	2421.2
15°	6026.2	5571.2	4716.4	4138.4	3701.8	3297.5	2882.4	2481.2	2173.7	1980.0	1915.5
17.5°	6278.3	5728.0	4714.9	3903.2	3339.0	2856.3	2324.4	1947.8	1632.6	1488.1	1442.0
20°	6748.8	6029.3	4728.7	3671.1	2945.5	2266.0	1691.0	1382.0	1231.4	1169.9	1146.8
22.5°	7405.2	6488.9	4770.2	3442.0	2515.0	1740.2	1266.7	1109.9	1056.1	1045.4	1040.8
25°	8213.8	7057.8	4910.1	3236.0	2152.2	1328.2	1059.2	988.5	957.7	947.0	945.4
27.5°	8957.9	7792.6	5079.2	3059.2	1801.7	1145.3	957.7	897.8	867.0	865.5	868.6
30°	9629.7	8407.5	5220.7	2860.9	1535.8	1017.7	891.6	831.7	802.5	800.9	810.2
32.5°	10210.8	8913.3	5325.2	2665.7	1388.2	939.3	831.7	767.1	742.5	737.9	742.5
35°	10831.8	9417.5	5277.6	2513.5	1303.6	874.7	787.1	724.1	694.9	681.0	681.0
37.5°	11540.5	9937.1	5196.1	2387.4	1265.2	820.9	748.7	687.2	658.0	644.1	642.6
40°	12313.8	10456.7	5083.9	2275.2	1226.8	788.6	722.5	658.0	622.6	608.8	605.7
42.5°	12996.3	10901.0	4991.6	2201.4	1163.7	794.8	699.5	636.4	591.9	573.4	571.9
45°	13589.7	11348.4	4974.7	2158.4	1111.5	785.6	693.3	619.5	567.3	547.3	544.2
47.5°	14054.0	11814.2	5071.6	2133.8	1054.6	736.4	733.3	608.8	545.7	524.2	521.1
50°	14619.7	12475.2	5292.9	2083.0	1002.3	690.2	774.8	607.2	528.8	501.2	493.5
52.5°	15373.0	13336.1	5592.7	1992.3	927.0	647.2	739.4	607.2	508.8	481.2	472.0
55°	16512.2	14433.7	5886.3	1864.7	820.9	590.3	667.2	588.8	479.6	455.0	448.9
57.5°	17267.0	15236.2	6073.9	1688.0	688.7	548.8	575.0	559.6	450.4	424.3	424.3
60°	17305.4	15451.4	5984.7	1465.0	605.7	510.4	499.6	564.2	424.3	396.6	393.5
62.5°	16862.7	14924.1	5520.4	1265.2	561.1	468.9	452.0	495.0	398.2	370.5	365.9
65°	16170.9	13579.0	4714.9	1169.9	536.5	432.0	407.4	405.8	370.5	344.4	338.2
67.5°	14899.5	11866.4	3874.0	1114.5	524.2	390.5	367.4	359.7	338.2	316.7	313.6
70°	13025.6	9938.7	3106.9	1091.5	518.1	347.4	329.0	319.8	301.3	284.4	282.9
72.5°	10133.9	8061.6	2564.2	1076.1	515.0	307.5	287.5	275.2	264.4	249.0	249.0
75°	7279.1	5930.9	1957.0	970.0	476.6	264.4	242.9	235.2	219.8	207.5	210.6
77.5°	4588.8	3993.9	1288.3	713.3	369.0	212.1	193.7	189.1	176.8	159.9	170.6
80°	3099.2	2808.6	751.7	448.9	232.1	155.3	149.1	147.6	133.7	115.3	116.8
82.5°	2109.2	2069.2	390.5	255.2	133.7	90.7	87.6	90.7	75.3	61.5	61.5
85°	824.0	1125.3	184.5	99.9	43.0	13.8	20.0	21.5	12.3	6.1	7.7
87.5°	15.4	115.3	4.6	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°	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7
2.5°	6244.5	6230.7	6253.7	6155.4	6175.3	6212.2	6230.7	6241.4	6393.6	6358.3	6455.1
5°	4871.7	4857.9	4947.0	4959.3	5005.5	4996.2	5040.8	5051.6	5106.9	5126.9	5262.2
7.5°	3543.5	3603.4	3704.9	3757.2	3835.6	3860.2	3837.1	3894.0	3778.7	3861.7	3886.3
10°	2847.1	2774.8	2731.8	2851.7	2867.1	2980.8	2934.7	2897.8	2965.5	2968.5	3033.1
12.5°	2370.5	2215.3	2112.3	2146.1	2183.0	2232.2	2239.8	2313.6	2362.8	2409.0	2447.4
15°	1858.6	1804.8	1711.0	1664.9	1717.2	1737.2	1784.8	1846.3	1898.6	1912.4	1964.7
17.5°	1426.6	1435.8	1420.5	1392.8	1425.1	1440.5	1443.5	1445.1	1458.9	1449.7	1526.5
20°	1148.4	1180.6	1219.1	1225.2	1236.0	1243.7	1229.8	1177.6	1179.1	1211.4	1236.0
22.5°	1039.2	1045.4	1088.4	1102.2	1136.1	1122.2	1082.3	1057.7	1054.6	1062.3	1074.6
25°	953.1	962.4	993.1	1014.6	1040.8	1016.2	986.9	963.9	960.8	968.5	980.8
27.5°	876.3	890.1	917.8	939.3	963.9	940.8	913.2	893.2	891.6	890.1	897.8
30°	814.8	830.1	850.1	874.7	891.6	871.6	845.5	834.8	833.2	830.1	833.2
32.5°	753.3	777.9	797.9	810.2	827.1	811.7	791.7	785.6	774.8	765.6	761.0
35°	684.1	710.2	741.0	756.4	773.3	757.9	744.1	717.9	699.5	697.9	701.0
37.5°	644.1	654.9	679.5	705.6	722.5	714.8	688.7	662.6	658.0	658.0	661.0
40°	608.8	613.4	624.1	658.0	688.7	665.7	633.4	625.7	625.7	624.1	625.7
42.5°	573.4	578.0	578.0	604.2	653.4	616.5	591.9	591.9	591.9	593.4	598.0
45°	541.1	542.7	541.1	559.6	605.7	575.0	558.0	562.7	565.7	568.8	571.9
47.5°	513.5	515.0	513.5	528.8	551.9	539.6	530.4	536.5	542.7	547.3	550.4
50°	488.9	487.3	490.4	499.6	510.4	513.5	507.3	516.5	519.6	525.8	533.4
52.5°	467.3	465.8	468.9	473.5	488.9	488.9	488.9	496.5	502.7	508.8	519.6
55°	442.7	444.3	448.9	455.0	475.0	472.0	473.5	479.6	485.8	495.0	501.2
57.5°	419.7	422.8	428.9	438.1	458.1	456.6	458.1	461.2	468.9	473.5	479.6
60°	393.5	399.7	407.4	413.5	433.5	432.0	439.7	445.8	450.4	450.4	453.5
62.5°	367.4	376.6	384.3	388.9	410.5	412.0	422.8	427.4	430.4	427.4	432.0
65°	341.3	355.1	358.2	364.3	385.9	387.4	399.7	410.5	407.4	404.3	412.0
67.5°	315.1	332.1	330.5	338.2	359.7	362.8	373.6	392.0	385.9	382.8	388.9
70°	285.9	298.2	299.8	304.4	333.6	329.0	345.9	362.8	358.2	359.7	359.7
72.5°	253.7	264.4	264.4	273.6	304.4	296.7	310.5	329.0	329.0	327.4	327.4
75°	215.2	221.4	227.5	241.4	273.6	264.4	273.6	290.5	293.6	290.5	290.5
77.5°	173.7	182.9	186.0	204.5	227.5	226.0	235.2	242.9	249.0	246.0	246.0
80°	123.0	132.2	144.5	164.5	178.3	182.9	187.6	193.7	196.8	196.8	199.8
82.5°	69.2	83.0	93.8	113.8	119.9	143.0	141.4	146.0	141.4	124.5	138.4
85°	15.4	29.2	41.5	52.3	60.0	83.0	87.6	98.4	81.5	75.3	75.3
87.5°	0.0	0.0	0.0	0.0	0.0	12.3	24.6	33.8	29.2	24.6	24.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7
2.5°	6536.6	6670.4	6831.8	7110.0	7305.3	7515.9	7728.0	7954.0	8014.0	8075.4
5°	5299.1	5562.0	5704.9	6078.5	6470.5	6968.6	7376.0	7821.8	8007.8	8050.8
7.5°	4013.9	4192.2	4567.3	4945.5	5431.3	5954.0	6578.1	7273.0	7489.7	7580.4
10°	3182.2	3425.1	3754.1	4159.9	4585.8	5148.4	5852.5	6664.2	6971.7	7022.4
12.5°	2708.7	2979.3	3337.5	3766.4	4169.2	4593.5	5303.7	6141.5	6470.5	6579.7
15°	2166.1	2493.5	2907.0	3359.0	3797.1	4261.4	4980.9	5926.3	6306.0	6433.6
17.5°	1701.8	1966.2	2413.6	2904.0	3423.6	4010.8	4913.2	6029.3	6496.6	6615.0
20°	1302.1	1491.2	1867.8	2385.9	2994.7	3763.3	4930.1	6418.2	6977.8	7139.2
22.5°	1125.3	1222.2	1451.2	1944.7	2625.7	3548.1	4999.3	6951.7	7626.6	7895.6
25°	1019.2	1070.0	1199.1	1521.9	2273.7	3339.0	5157.6	7669.6	8533.6	8711.9
27.5°	928.5	965.4	1045.4	1277.5	1953.9	3145.3	5342.1	8465.9	9380.6	9646.6
30°	842.4	891.6	967.0	1134.5	1749.4	2968.5	5574.3	9111.6	10093.9	10341.4
32.5°	776.3	825.5	894.7	1034.6	1575.7	2782.5	5712.6	9678.8	10676.6	10887.2
35°	722.5	764.0	836.3	954.7	1443.5	2641.1	5684.9	10129.3	11240.7	11456.0
37.5°	684.1	719.5	791.7	879.3	1343.6	2493.5	5671.1	10724.2	11927.9	12177.0
40°	648.7	685.6	751.7	830.1	1243.7	2319.8	5678.8	11314.5	12659.7	12908.7
42.5°	621.1	662.6	716.4	816.3	1140.7	2179.9	5678.8	11828.0	13296.1	13535.9
45°	598.0	642.6	694.9	814.8	1059.2	2073.8	5640.4	12269.2	13803.4	14007.9
47.5°	578.0	627.2	702.5	787.1	1039.2	1997.0	5606.5	12622.8	14217.0	14409.1
50°	564.2	622.6	747.1	754.8	1045.4	1973.9	5769.5	13068.6	14581.3	14747.3
52.5°	553.4	624.1	745.6	707.2	1034.6	1989.3	6109.2	13765.0	15087.1	15099.4
55°	531.9	622.6	707.2	653.4	990.0	2015.4	6545.8	14776.5	15878.8	15888.0
57.5°	510.4	605.7	656.4	607.2	899.3	2015.4	7071.6	15734.3	16833.5	16841.1
60°	488.9	630.3	576.5	567.3	780.9	1978.5	7626.6	16155.5	17133.2	17211.6
62.5°	467.3	634.9	515.0	531.9	694.9	1889.3	8040.1	15689.7	16727.4	16839.6
65°	442.7	511.9	475.0	495.0	650.3	1740.2	7909.4	14836.5	15964.9	16098.6
67.5°	413.5	433.5	432.0	456.6	634.9	1520.4	7220.7	13757.3	15144.0	15136.3
70°	378.2	388.9	393.5	419.7	605.7	1349.8	6017.0	12356.8	14047.9	14220.0
72.5°	341.3	350.5	355.1	378.2	576.5	1252.9	4670.3	10427.5	12167.7	12436.8
75°	301.3	307.5	313.6	333.6	545.7	1109.9	3326.7	7960.1	9319.1	9741.9
77.5°	259.8	259.8	267.5	287.5	459.7	916.2	2232.2	5583.5	6313.7	6745.7
80°	210.6	212.1	209.1	230.6	338.2	627.2	1268.3	3729.5	4201.4	4284.5
82.5°	161.4	156.8	158.3	169.1	252.1	427.4	676.4	2316.7	2361.3	2315.2
85°	101.5	101.5	98.4	110.7	161.4	222.9	369.0	1418.9	1108.4	1054.6
87.5°	41.5	33.8	38.4	44.6	76.9	90.7	144.5	292.1	112.2	103.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)