

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: P530107

Luminaire Tested: **GALN-SA5B-740-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530107
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-SA5B-740-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA 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: 15754 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

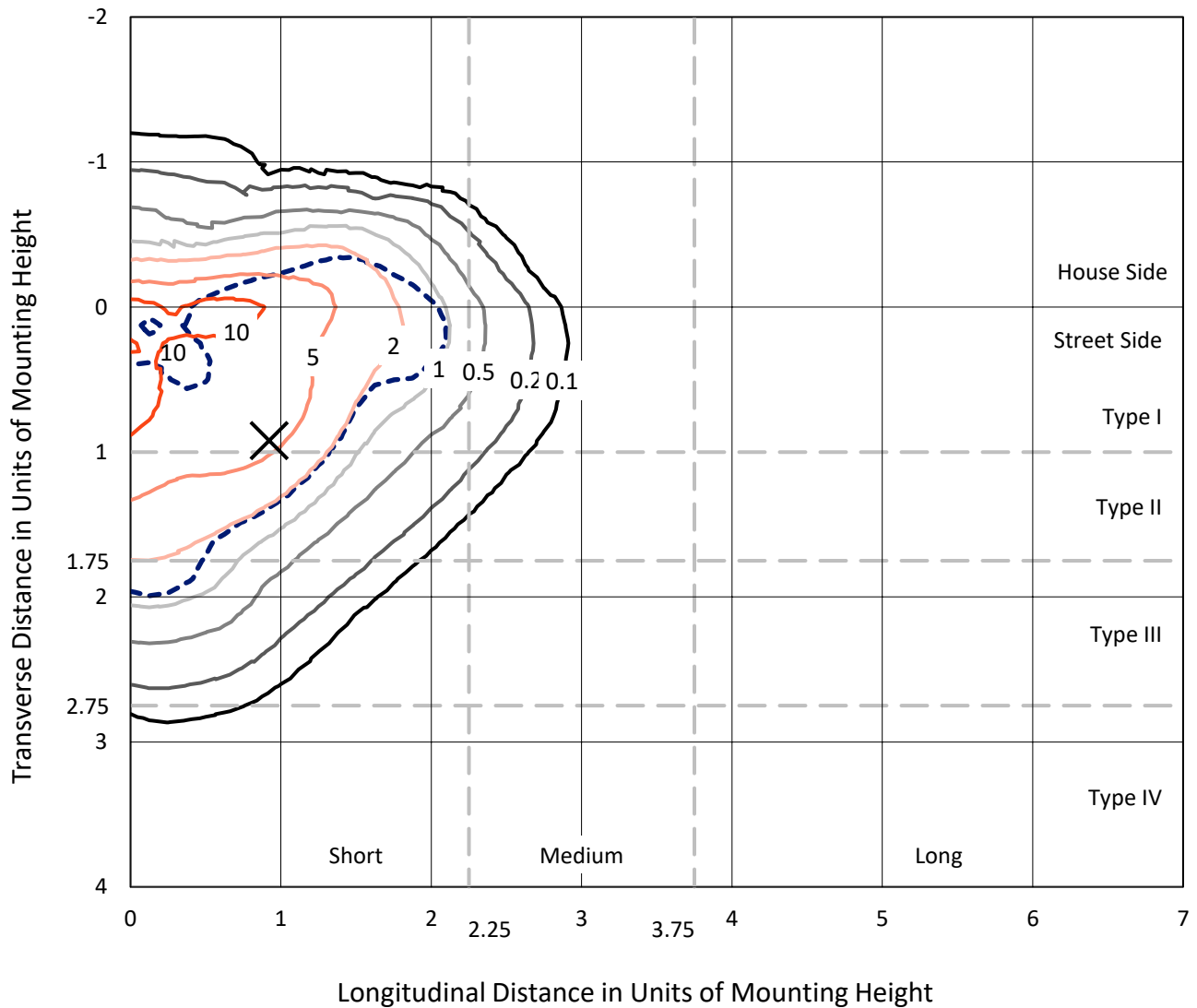
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

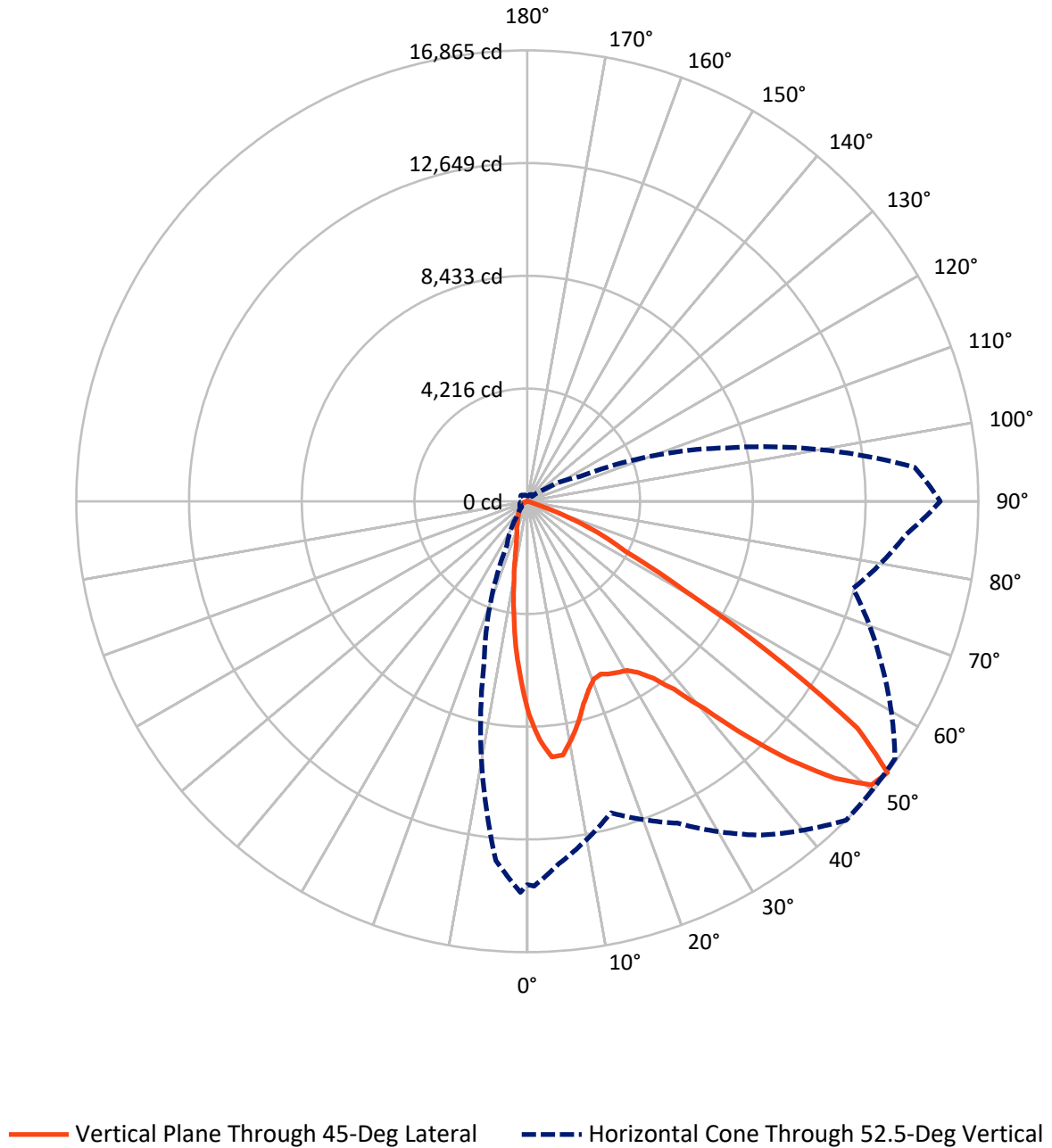
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	3197.3	0.0	3197.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	12556.7	0.0	12556.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	15754.0	0.0	15754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.6	3.7
10°-20°	1149.4	7.3
20°-30°	1749.1	11.1
30°-40°	2614.3	16.6
40°-50°	3723.0	23.6
50°-60°	4002.1	25.4
60°-70°	1773.4	11.3
70°-80°	143.5	0.9
80°-90°	16.7	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°	15754.0	100.0
0°-180°	15754.0	100.0

Coefficient of Utilization

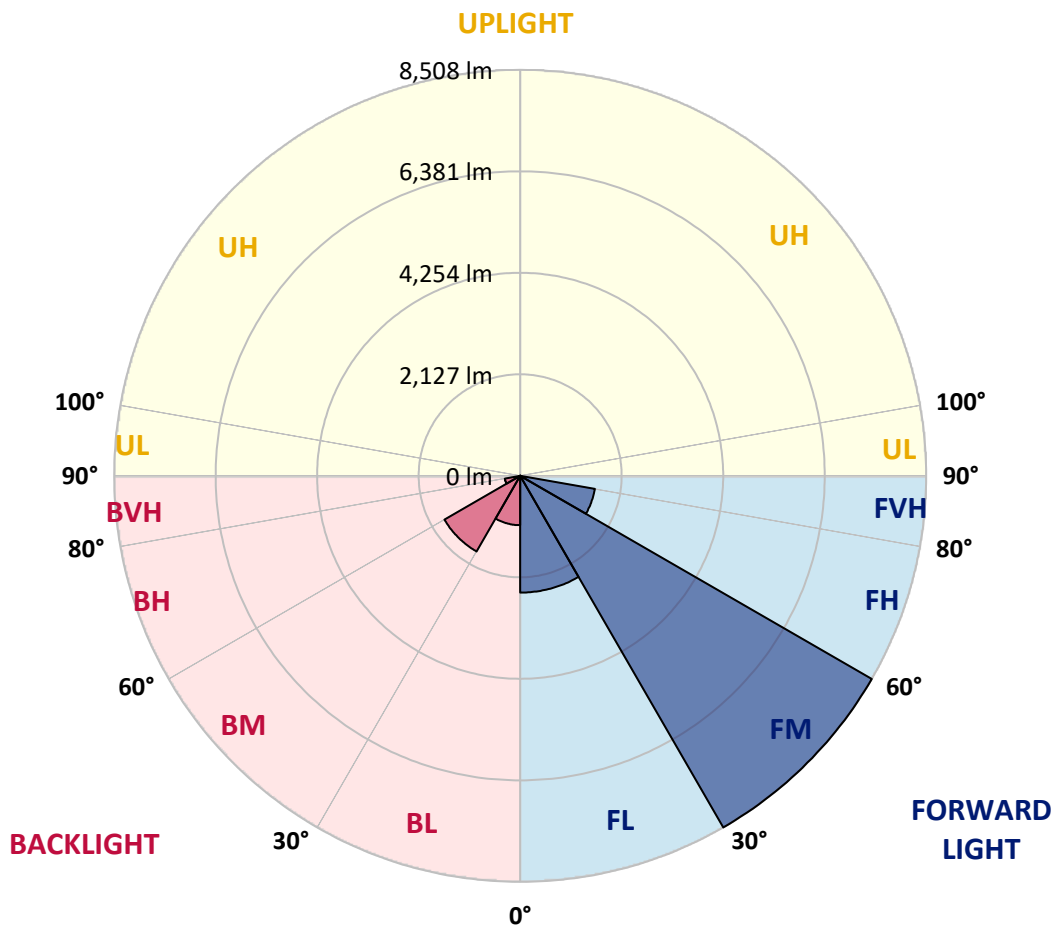


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2446.9	15.5			
FM (30°-60°)	8507.7	54.0			
FH (60°-80°)	1589.8	10.1			G1/1800
FVH (80°-90°)	12.4	0.1			G1/100
BL (0°-30°)	1034.1	6.6	B3/2500		
BM (30°-60°)	1831.7	11.6	B2/2500		
BH (60°-80°)	327.1	2.1	B1/500		G1/500
BVH (80°-90°)	4.3	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0
2.5°	8452.8	8477.6	8613.9	8784.3	8874.2	9078.7	8936.2	8973.3	8895.9	8623.2	8409.4
5°	8195.6	8192.5	8366.0	8787.4	9187.1	9593.0	9605.4	9388.5	9007.4	8589.1	7991.1
7.5°	7421.0	7541.8	7721.5	8393.9	9134.5	9438.1	9583.8	9329.7	8744.1	8146.0	7498.4
10°	6835.4	6897.3	7201.0	8012.8	8555.0	8960.9	9050.8	8905.2	8455.9	7709.1	6984.1
12.5°	6497.6	6528.6	6884.9	7566.6	8139.8	8440.4	8483.8	8551.9	8229.7	7529.4	6658.7
15°	6500.7	6525.5	7005.8	7575.9	7802.1	7721.5	7864.1	7861.0	8000.4	7495.3	6931.4
17.5°	6968.6	6996.5	7430.3	7712.2	7613.1	7424.1	7414.8	7557.3	7851.7	7919.8	7343.5
20°	7774.2	7839.3	8158.4	8142.9	7585.2	7204.1	7098.7	7207.2	7892.0	8279.3	8173.9
22.5°	8858.7	8948.6	9171.6	8744.1	7712.2	7055.4	7021.3	7232.0	8158.4	9081.8	9115.9
25°	10116.7	10268.5	10377.0	9828.5	8164.6	7312.5	7151.4	7513.9	8517.9	9952.5	10315.0
27.5°	10950.2	11108.2	11083.4	10299.5	8468.3	7380.7	7244.4	7582.1	8830.8	10160.1	10940.9
30°	11600.9	11697.0	11870.5	10553.6	8771.9	7572.8	7340.4	7870.3	8933.1	10519.5	11697.0
32.5°	12360.0	12425.1	12437.5	11002.9	9239.8	7814.5	7637.9	8229.7	9385.4	10863.4	12366.2
35°	13125.4	13221.4	13020.0	11557.5	9528.0	8263.8	8133.6	8852.5	9748.0	11219.8	13103.7
37.5°	13955.8	14005.4	13540.6	11786.8	9940.1	8995.0	8923.8	9524.9	10377.0	11864.3	13921.7
40°	14652.9	14699.4	14095.2	12068.8	10373.9	10017.5	10200.4	10807.7	11232.2	12282.6	14330.7
42.5°	15040.3	15148.7	14281.1	11913.8	11244.6	11176.4	11988.2	12202.0	12223.7	12400.3	14696.3
45°	15145.6	15096.0	13974.4	12040.9	12006.8	13082.0	13819.4	14101.4	13209.0	12617.2	14789.3
47.5°	14659.1	14724.2	13522.0	11929.3	13007.6	14525.9	15480.3	16003.9	13943.4	12428.2	14560.0
50°	14265.6	14182.0	13376.4	11848.8	13277.2	15207.6	16679.4	16797.1	14618.9	12660.6	14309.0
52.5°	14343.1	14395.8	13608.7	12062.6	13283.4	15247.9	16865.3	16784.7	14640.6	12607.9	14219.2
55°	14507.3	14274.9	13509.6	11591.6	12394.1	14123.1	14969.0	14845.1	13512.7	12047.1	13999.2
57.5°	12518.1	12877.5	12422.0	10349.1	10172.5	10640.4	10624.9	11006.0	10079.5	10367.7	12744.3
60°	10160.1	10222.1	10392.5	8852.5	7039.9	6878.7	6655.6	6414.0	6782.7	8864.9	11591.6
62.5°	8936.2	8861.8	9469.1	8053.1	4970.0	4161.3	4124.1	4272.9	5233.4	8455.9	10872.7
65°	6494.5	6587.5	7027.5	6249.7	3730.6	3176.0	3120.2	3560.2	4235.7	6776.5	8297.9
67.5°	3966.1	4145.8	4186.1	3854.6	2531.5	2010.9	1930.4	2330.1	3058.2	4384.4	4864.7
70°	1831.2	2048.1	2252.6	2103.9	1465.6	827.3	780.8	979.1	1543.1	2522.2	2581.1
72.5°	554.6	557.7	780.8	814.9	474.1	185.9	164.2	216.9	523.7	833.5	876.9
75°	40.3	43.4	105.4	120.8	89.9	46.5	49.6	58.9	111.5	185.9	139.4
77.5°	3.1	3.1	3.1	15.5	27.9	31.0	40.3	46.5	58.9	68.2	62.0
80°	3.1	0.0	3.1	12.4	21.7	31.0	37.2	43.4	46.5	52.7	46.5
82.5°	0.0	0.0	0.0	9.3	21.7	31.0	34.1	46.5	52.7	62.0	52.7
85°	0.0	0.0	0.0	9.3	21.7	34.1	31.0	15.5	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°	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0
2.5°	8446.6	8325.8	8050.0	7910.5	7582.1	7535.6	7213.4	7160.7	7052.3	6993.4	6850.8
5°	7727.7	7582.1	7132.8	6754.8	6314.8	6008.0	5772.6	5558.8	5434.8	5320.2	5372.9
7.5°	7142.1	6717.6	6218.7	5586.6	5078.5	4750.0	4390.6	4096.3	3922.7	3805.0	3832.9
10°	6528.6	6252.8	5558.8	4849.2	4235.7	4003.3	3721.3	3495.1	3250.4	3039.7	2940.5
12.5°	6336.5	5927.5	5056.8	4334.8	3870.1	3643.9	3321.6	3061.3	2748.4	2491.2	2401.4
15°	6370.6	5977.1	4920.5	4148.9	3600.5	3210.1	2825.9	2503.6	2159.7	1980.0	1887.0
17.5°	6925.2	6243.5	5010.3	3953.7	3225.6	2683.3	2209.3	1800.2	1543.1	1357.2	1316.9
20°	7606.9	6819.9	5202.4	3811.2	2918.8	2134.9	1614.3	1261.1	1047.3	1016.3	1007.0
22.5°	8604.6	7761.8	5614.5	3715.1	2543.9	1663.9	1106.2	917.2	858.3	852.1	855.2
25°	9999.0	8942.4	6063.8	3634.6	2261.9	1282.8	904.8	777.7	759.1	749.8	765.3
27.5°	10603.2	9655.0	6302.4	3461.1	2004.7	1155.8	892.4	771.5	718.9	703.4	712.7
30°	11349.9	10129.1	6677.3	3163.6	1626.7	951.2	833.5	839.7	814.9	737.5	712.7
32.5°	12341.4	10720.9	6866.3	2952.9	1453.2	787.0	610.4	560.8	625.9	638.3	660.0
35°	12976.6	11322.0	6962.4	2829.0	1363.4	672.4	517.5	471.0	455.5	458.6	471.0
37.5°	14157.2	12133.8	7083.2	2698.8	1295.2	585.6	467.9	424.5	402.8	402.8	415.2
40°	14863.6	12778.3	7247.5	2627.6	1227.0	532.9	424.5	387.3	368.7	368.7	374.9
42.5°	15040.3	13097.5	7191.7	2602.8	1149.6	520.6	387.3	359.4	337.7	334.6	331.5
45°	15356.3	13584.0	7201.0	2574.9	1069.0	474.1	365.6	334.6	303.7	300.6	297.5
47.5°	15703.3	13934.1	7219.6	2466.4	991.5	396.6	381.1	309.9	272.7	266.5	266.5
50°	15405.9	14213.0	7380.7	2358.0	892.4	322.2	374.9	291.3	241.7	232.4	235.5
52.5°	15443.1	14541.4	7721.5	2206.2	768.4	257.2	303.7	275.8	220.0	204.5	207.6
55°	14848.2	14194.4	7768.0	2045.0	601.1	198.3	232.4	241.7	185.9	179.7	179.7
57.5°	12781.4	12019.2	6853.9	1657.7	396.6	164.2	167.3	210.7	161.1	154.9	158.0
60°	10937.8	9648.8	5515.4	1093.8	247.9	130.1	120.8	213.8	142.5	139.4	148.7
62.5°	9971.1	7929.1	4183.0	678.6	170.4	99.2	83.7	173.5	123.9	123.9	136.3
65°	7204.1	5326.4	2432.3	356.3	120.8	77.5	62.0	99.2	102.3	105.4	111.5
67.5°	4461.9	2689.5	1025.6	173.5	80.6	52.7	40.3	62.0	68.2	68.2	74.4
70°	2203.1	1072.1	340.8	99.2	62.0	43.4	27.9	34.1	34.1	31.0	34.1
72.5°	681.7	322.2	86.8	62.0	43.4	27.9	15.5	12.4	6.2	0.0	3.1
75°	77.5	62.0	55.8	43.4	27.9	12.4	3.1	0.0	0.0	0.0	0.0
77.5°	46.5	52.7	52.7	43.4	27.9	9.3	0.0	0.0	0.0	0.0	0.0
80°	37.2	40.3	43.4	40.3	24.8	12.4	0.0	0.0	0.0	0.0	0.0
82.5°	46.5	52.7	58.9	52.7	34.1	15.5	6.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	9.3	3.1	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°	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0
2.5°	6792.0	6723.8	6819.9	6677.3	6674.2	6677.3	6637.1	6599.9	6658.7	6816.8	6832.3
5°	5183.8	5329.5	5375.9	5527.8	5444.1	5320.2	5345.0	5261.3	5465.8	5555.7	5484.4
7.5°	3774.0	3764.7	4077.7	4096.3	4136.5	4139.6	4133.4	3969.2	3801.9	3839.1	3950.6
10°	2928.1	2770.1	2921.9	2906.4	3005.6	2977.7	3018.0	2841.4	2900.2	2900.2	2971.5
12.5°	2385.9	2218.5	2190.7	2150.4	2190.7	2206.2	2221.6	2187.6	2286.7	2333.2	2382.8
15°	1821.9	1729.0	1704.2	1626.7	1639.1	1682.5	1719.7	1735.2	1704.2	1775.5	1781.7
17.5°	1323.1	1320.0	1335.5	1332.4	1320.0	1310.7	1307.6	1267.3	1254.9	1261.1	1285.9
20°	1003.9	1028.7	1081.4	1134.1	1161.9	1127.9	1081.4	1013.2	985.3	991.5	994.6
22.5°	858.3	895.5	966.7	1025.6	1053.5	991.5	907.9	849.0	836.6	833.5	830.4
25°	777.7	821.1	873.8	892.4	889.3	852.1	790.1	765.3	759.1	752.9	725.1
27.5°	734.4	749.8	759.1	780.8	790.1	765.3	749.8	712.7	706.5	706.5	687.9
30°	709.6	700.3	712.7	697.2	709.6	691.0	694.1	694.1	678.6	684.8	684.8
32.5°	660.0	663.1	663.1	632.1	641.4	619.7	641.4	660.0	663.1	666.2	691.0
35°	483.4	539.1	567.0	567.0	576.3	560.8	557.7	536.0	508.2	480.3	467.9
37.5°	424.5	446.2	483.4	505.1	520.6	508.2	480.3	446.2	430.7	418.3	405.9
40°	378.0	396.6	421.4	446.2	477.2	461.7	418.3	402.8	384.2	384.2	371.8
42.5°	340.8	350.1	365.6	402.8	436.9	405.9	374.9	362.5	353.2	350.1	347.0
45°	306.8	309.9	325.3	356.3	396.6	365.6	334.6	319.1	322.2	325.3	322.2
47.5°	275.8	282.0	291.3	328.4	353.2	337.7	303.7	294.4	294.4	294.4	297.5
50°	238.6	254.1	272.7	303.7	322.2	313.0	285.1	272.7	266.5	266.5	269.6
52.5°	213.8	226.2	251.0	288.2	313.0	297.5	269.6	251.0	238.6	235.5	241.7
55°	185.9	207.6	247.9	275.8	309.9	294.4	263.4	241.7	220.0	216.9	216.9
57.5°	167.3	201.4	238.6	272.7	300.6	288.2	263.4	235.5	207.6	204.5	204.5
60°	158.0	195.2	232.4	263.4	300.6	282.0	260.3	229.3	198.3	198.3	195.2
62.5°	148.7	182.8	220.0	251.0	288.2	272.7	251.0	220.0	189.0	189.0	182.8
65°	123.9	158.0	182.8	210.7	251.0	235.5	213.8	192.1	167.3	161.1	164.2
67.5°	86.8	108.4	133.2	161.1	185.9	179.7	170.4	154.9	133.2	130.1	127.0
70°	43.4	58.9	80.6	108.4	130.1	123.9	117.7	105.4	93.0	89.9	89.9
72.5°	6.2	18.6	34.1	49.6	68.2	71.3	68.2	65.1	62.0	58.9	62.0
75°	0.0	0.0	0.0	12.4	27.9	34.1	40.3	46.5	46.5	40.3	49.6
77.5°	0.0	0.0	0.0	0.0	3.1	15.5	31.0	40.3	49.6	43.4	58.9
80°	0.0	0.0	0.0	0.0	3.1	18.6	31.0	43.4	49.6	43.4	62.0
82.5°	0.0	0.0	0.0	0.0	3.1	21.7	31.0	40.3	46.5	43.4	55.8
85°	0.0	0.0	0.0	0.0	9.3	18.6	12.4	6.2	3.1	3.1	9.3
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°	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0	7988.0
2.5°	6919.0	7139.0	7374.5	7464.4	7743.2	7953.9	8096.5	8403.2	8449.7	8452.8
5°	5558.8	5670.3	6073.1	6262.1	6677.3	6999.6	7343.5	7839.3	8170.8	8195.6
7.5°	3950.6	4260.5	4430.9	4923.6	5434.8	5939.9	6451.1	7027.5	7411.7	7421.0
10°	3179.1	3380.5	3684.2	4052.9	4483.6	4997.9	5679.6	6348.9	6739.3	6835.4
12.5°	2559.4	2912.6	3259.7	3640.8	3969.2	4356.5	5090.9	5983.3	6305.5	6497.6
15°	1970.7	2292.9	2701.9	3148.1	3519.9	4037.4	4874.0	5893.4	6435.6	6500.7
17.5°	1453.2	1741.4	2119.4	2540.8	3098.5	3832.9	4911.2	6348.9	6860.1	6968.6
20°	1044.2	1211.5	1509.0	1998.6	2708.1	3594.3	4948.4	6810.6	7588.3	7774.2
22.5°	827.3	895.5	1090.7	1524.5	2271.2	3343.3	5211.7	7693.6	8589.1	8858.7
25°	718.9	756.0	849.0	1202.2	1995.5	3318.5	5633.1	8753.3	9921.5	10116.7
27.5°	694.1	700.3	780.8	1103.1	1846.7	3154.3	5794.3	9506.3	10751.9	10950.2
30°	731.3	830.4	836.6	932.7	1571.0	2829.0	5877.9	10234.4	11455.3	11600.9
32.5°	632.1	601.1	622.8	722.0	1381.9	2639.9	6035.9	10869.6	12257.8	12360.0
35°	440.0	461.7	511.3	625.9	1208.4	2441.6	6076.2	11569.9	13020.0	13125.4
37.5°	405.9	418.3	458.6	532.9	1062.8	2330.1	6020.4	12081.2	13810.1	13955.8
40°	378.0	393.5	415.2	483.4	954.3	2206.2	5943.0	12542.8	14293.5	14652.9
42.5°	356.3	368.7	387.3	461.7	861.4	2082.2	5834.5	13193.5	14727.3	15040.3
45°	331.5	350.1	371.8	449.3	808.7	1998.6	5754.0	13153.3	14978.3	15145.6
47.5°	306.8	337.7	362.5	418.3	793.2	1958.3	5788.1	13001.4	14773.8	14659.1
50°	282.0	322.2	365.6	347.0	756.0	1877.7	5828.3	13209.0	14287.3	14265.6
52.5°	260.3	306.8	340.8	285.1	672.4	1800.2	6218.7	13481.7	14631.3	14343.1
55°	229.3	275.8	272.7	229.3	545.3	1741.4	6525.5	13487.9	14398.9	14507.3
57.5°	207.6	244.8	213.8	192.1	402.8	1456.3	6026.6	11309.6	12326.0	12518.1
60°	192.1	238.6	161.1	151.8	263.4	1050.4	5261.3	8759.5	9797.6	10160.1
62.5°	176.6	226.2	127.0	123.9	182.8	746.7	4325.5	7331.1	8443.5	8936.2
65°	154.9	161.1	102.3	96.1	130.1	402.8	2633.8	5047.5	6311.7	6494.5
67.5°	127.0	123.9	83.7	77.5	86.8	195.2	1161.9	2528.4	3659.4	3966.1
70°	102.3	102.3	71.3	62.0	62.0	89.9	303.7	1007.0	1654.6	1831.2
72.5°	74.4	77.5	55.8	49.6	46.5	43.4	49.6	201.4	433.8	554.6
75°	65.1	68.2	55.8	43.4	34.1	27.9	21.7	18.6	24.8	40.3
77.5°	71.3	71.3	58.9	40.3	31.0	21.7	12.4	6.2	6.2	3.1
80°	89.9	93.0	77.5	52.7	37.2	24.8	15.5	6.2	3.1	3.1
82.5°	96.1	105.4	86.8	65.1	46.5	27.9	15.5	3.1	0.0	0.0
85°	24.8	40.3	68.2	58.9	46.5	27.9	15.5	3.1	0.0	0.0
87.5°	0.0	3.1	9.3	9.3	12.4	12.4	9.3	3.1	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)