

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: P454176

Luminaire Tested: **GALN-SA5B-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454176
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-SA5B-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA 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: 22370 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

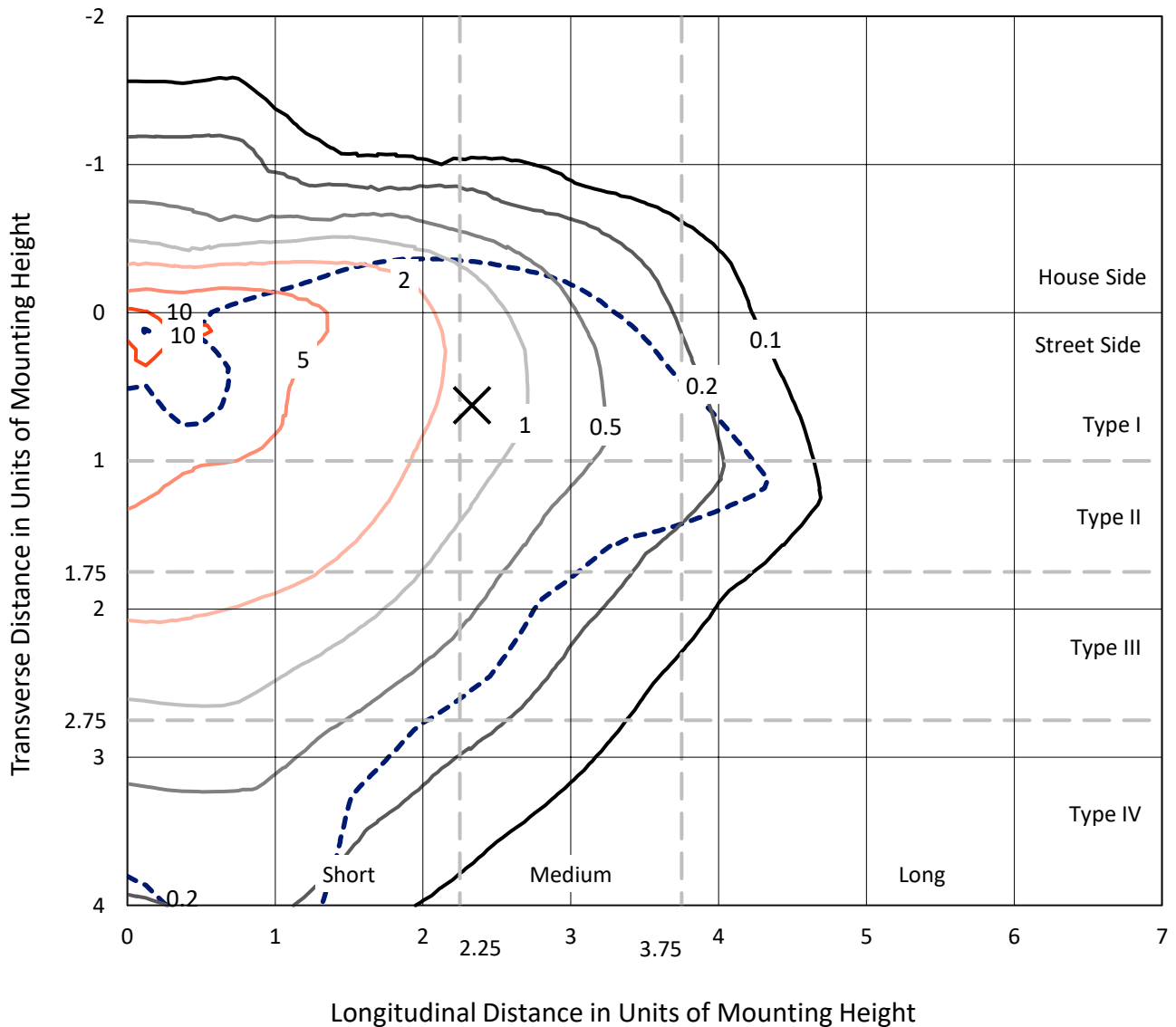
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

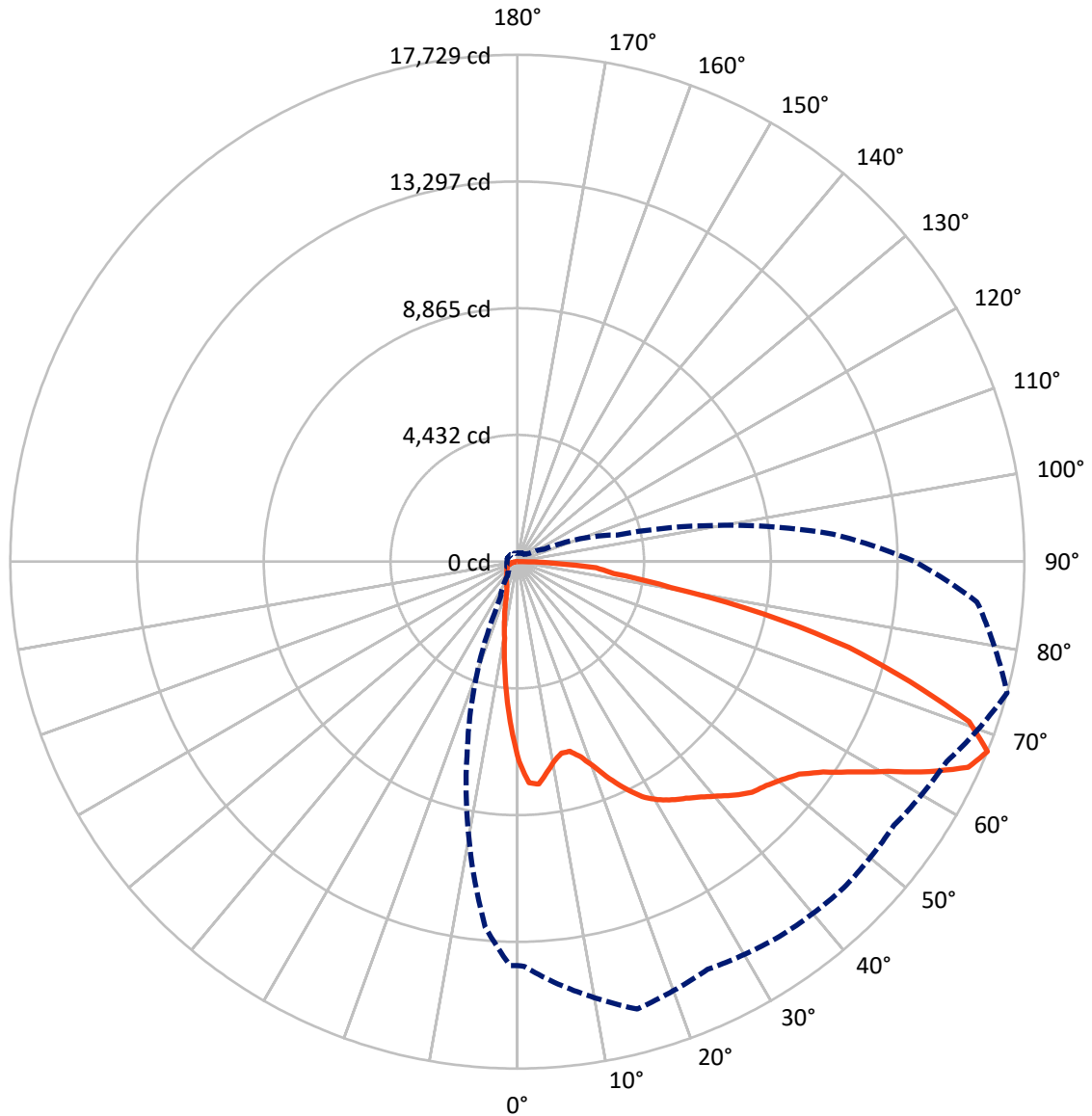
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - 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	3781.0	0.0	3781.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	18589.0	0.0	18589.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	22370.0	0.0	22370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.1	2.4
10°-20°	1105.5	4.9
20°-30°	1590.9	7.1
30°-40°	2291.3	10.2
40°-50°	3218.6	14.4
50°-60°	4488.8	20.1
60°-70°	5336.9	23.9
70°-80°	3143.2	14.1
80°-90°	664.7	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°	22370.0	100.0
0°-180°	22370.0	100.0

Coefficient of Utilization



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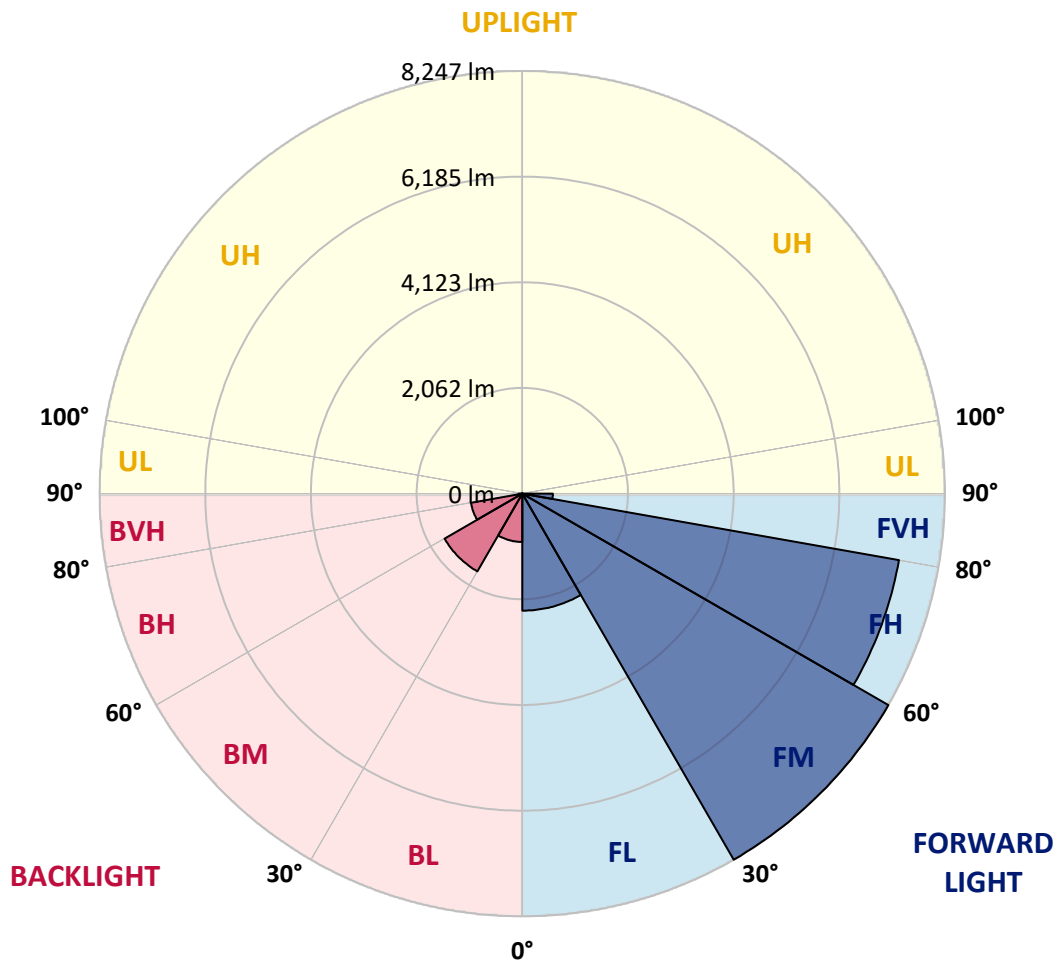
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2283.4	10.2			
FM	(30°-60°)	8247.0	36.9			
FH	(60°-80°)	7462.7	33.4			G3/7500
FVH	(80°-90°)	595.9	2.7			G4/750
BL	(0°-30°)	943.1	4.2	B2/1000		
BM	(30°-60°)	1751.8	7.8	B2/2500		
BH	(60°-80°)	1017.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	68.7	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°	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9
2.5°	7535.5	7545.5	7610.1	7798.0	7927.1	7974.4	8007.4	7945.7	7885.5	7739.2	7518.3
5°	7512.5	7571.3	7739.2	8160.9	8493.7	8637.2	8680.2	8495.1	8189.6	7813.8	7361.9
7.5°	7073.6	7152.5	7410.7	8117.9	8704.6	9040.3	8995.8	8661.6	8110.7	7440.8	6809.6
10°	6552.8	6640.3	6951.6	7806.6	8562.6	9024.5	9024.5	8617.1	7885.5	7089.3	6362.0
12.5°	6139.7	6231.5	6587.3	7486.7	8267.1	8704.6	8777.7	8427.7	7723.4	6867.0	6068.0
15°	6003.4	6092.4	6475.4	7293.0	7954.3	8221.2	8245.5	8130.8	7644.5	6882.8	6055.1
17.5°	6172.7	6287.4	6674.8	7350.4	7667.4	7683.2	7701.9	7792.2	7653.1	7171.1	6316.1
20°	6661.8	6785.2	7189.7	7535.5	7416.4	7252.9	7262.9	7495.3	7754.9	7647.4	6940.1
22.5°	7367.6	7475.2	7889.8	7861.1	7310.2	6973.1	6902.8	7227.0	7905.6	8241.2	7604.3
25°	8129.4	8255.6	8731.8	8344.5	7340.4	6806.7	6762.3	7069.2	8061.9	8796.4	8371.8
27.5°	9001.5	9124.9	9500.7	8832.3	7498.2	6793.8	6740.7	7054.9	8202.5	9309.9	9104.8
30°	9649.9	9763.3	10018.6	9242.5	7691.8	6879.9	6813.9	7168.2	8323.0	9661.4	9819.2
32.5°	10159.2	10276.8	10416.0	9497.9	7947.2	7036.3	6914.3	7374.8	8480.8	9929.7	10348.5
35°	10689.9	10829.1	10819.1	9724.5	8185.3	7217.0	7097.9	7673.2	8729.0	10163.5	11019.9
37.5°	11362.7	11418.7	11346.9	9928.2	8470.8	7542.6	7476.6	8116.4	9081.9	10446.1	11804.6
40°	12045.6	12157.4	11788.8	10175.0	8817.9	8155.2	8148.0	8772.0	9500.7	10777.4	12564.8
42.5°	12630.8	12725.5	12201.9	10390.1	9238.2	8902.5	8957.1	9651.4	10050.2	11161.9	13175.9
45°	13071.2	13155.9	12583.5	10598.1	9791.9	9766.1	10087.5	10593.8	10743.0	11507.6	13534.6
47.5°	13445.6	13527.4	12848.9	10913.7	10476.2	10797.5	11357.0	11576.5	11335.5	11705.6	13936.2
50°	13761.2	13785.6	13031.1	11289.6	11325.4	12061.3	12603.6	12745.6	11920.8	11989.6	14284.8
52.5°	14089.7	14058.2	13345.2	11763.0	12243.5	13260.6	13655.1	13802.8	12481.6	12339.6	14792.6
55°	14825.6	14855.8	14049.6	12359.7	13171.6	14438.3	14957.6	14815.6	13102.8	12983.7	15438.2
57.5°	15715.0	15689.2	15040.8	13293.6	14117.0	15534.3	15921.6	15693.5	13931.9	13868.8	16092.3
60°	16060.7	16095.2	15869.9	14297.7	15049.4	16494.0	16889.9	16535.6	14926.0	14897.4	16585.8
62.5°	15713.6	15907.2	16059.3	15191.4	15844.1	17199.7	17592.8	17188.3	15963.2	16171.2	16931.5
65°	15022.2	15063.8	15581.6	15948.8	16227.1	17315.9	17521.1	17305.9	16829.6	17331.7	16915.7
67.5°	14124.2	14160.0	14766.8	16197.0	15733.7	15996.2	16139.6	16076.5	16561.4	17729.1	16136.8
70°	13269.2	13240.5	13881.7	15564.4	13696.7	13297.9	13416.9	13219.0	14290.6	16757.9	14609.0
72.5°	11605.2	11708.4	12397.0	13805.7	10844.9	10196.5	10456.1	9944.0	10991.2	14352.2	11857.6
75°	9090.5	9114.9	10263.9	11586.5	8181.0	7158.2	7509.6	7295.9	8419.1	11972.4	8188.2
77.5°	6294.6	6240.1	7475.2	8849.5	5834.1	5240.3	5246.0	5144.1	5878.6	8815.0	5563.0
80°	3998.0	3914.8	4679.4	5466.9	4009.4	4289.2	4148.6	4144.3	3827.3	5438.2	3363.9
82.5°	2160.4	2252.2	2956.5	3427.0	2876.2	3315.1	3038.3	2949.3	2626.6	3404.1	2151.8
85°	984.1	1070.1	1576.5	2331.1	2184.8	2209.1	1476.1	1741.5	2173.3	2764.3	1149.0
87.5°	96.1	123.4	325.6	1100.3	745.9	588.1	219.5	423.2	546.5	982.6	91.8
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°	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9
2.5°	7427.9	7353.3	7099.4	6889.9	6667.6	6498.3	6277.4	6129.6	6027.8	5874.3	5855.7
5°	7086.5	6904.3	6462.5	6012.0	5623.3	5330.6	5033.7	4761.1	4600.5	4550.3	4485.7
7.5°	6511.2	6204.2	5636.2	5119.8	4673.6	4237.5	3901.9	3663.7	3504.5	3411.3	3299.4
10°	6037.8	5682.1	4990.6	4358.0	3990.8	3719.7	3424.2	3168.8	2972.3	2804.5	2712.7
12.5°	5719.4	5317.7	4540.2	4026.7	3742.6	3454.3	3108.6	2821.7	2531.9	2341.1	2259.3
15°	5623.3	5198.7	4401.1	3861.7	3454.3	3077.0	2689.7	2315.3	2028.4	1847.6	1787.4
17.5°	5858.5	5345.0	4399.6	3642.2	3115.7	2665.3	2169.0	1817.5	1523.4	1388.6	1345.6
20°	6297.5	5626.1	4412.5	3425.6	2748.5	2114.5	1578.0	1289.6	1149.0	1091.7	1070.1
22.5°	6910.0	6055.1	4451.3	3211.9	2346.9	1623.9	1182.0	1035.7	985.5	975.5	971.2
25°	7664.6	6585.8	4581.8	3019.6	2008.3	1239.4	988.4	922.4	893.7	883.7	882.2
27.5°	8358.9	7271.5	4739.6	2854.7	1681.2	1068.7	893.7	837.8	809.1	807.6	810.5
30°	8985.8	7845.3	4871.6	2669.6	1433.1	949.6	832.0	776.1	748.8	747.4	756.0
32.5°	9528.0	8317.3	4969.1	2487.4	1295.4	876.5	776.1	715.8	692.9	688.6	692.9
35°	10107.5	8787.8	4924.7	2345.4	1216.5	816.2	734.5	675.7	648.4	635.5	635.5
37.5°	10768.8	9272.7	4848.6	2227.8	1180.6	766.0	698.6	641.2	614.0	601.1	599.6
40°	11490.4	9757.5	4743.9	2123.1	1144.7	735.9	674.2	614.0	581.0	568.1	565.2
42.5°	12127.3	10172.1	4657.8	2054.2	1085.9	741.6	652.7	593.9	552.3	535.1	533.6
45°	12681.0	10589.5	4642.1	2014.0	1037.1	733.0	647.0	578.1	529.3	510.7	507.8
47.5°	13114.3	11024.2	4732.4	1991.1	984.1	687.1	684.3	568.1	509.2	489.2	486.3
50°	13642.2	11641.0	4939.0	1943.8	935.3	644.1	723.0	566.6	493.5	467.6	460.5
52.5°	14345.1	12444.3	5218.7	1859.1	865.0	603.9	690.0	566.6	474.8	449.0	440.4
55°	15408.0	13468.6	5492.7	1740.1	766.0	550.9	622.6	549.4	447.6	424.6	418.9
57.5°	16112.4	14217.4	5667.7	1575.1	642.7	512.1	536.5	522.2	420.3	395.9	395.9
60°	16148.2	14418.2	5584.5	1367.1	565.2	476.3	466.2	526.5	395.9	370.1	367.2
62.5°	15735.1	13926.2	5151.3	1180.6	523.6	437.5	421.7	461.9	371.5	345.7	341.4
65°	15089.6	12671.0	4399.6	1091.7	500.6	403.1	380.1	378.7	345.7	321.3	315.6
67.5°	13903.2	11073.0	3615.0	1040.0	489.2	364.4	342.8	335.7	315.6	295.5	292.6
70°	12154.6	9274.1	2899.1	1018.5	483.4	324.2	307.0	298.4	281.2	265.4	263.9
72.5°	9456.3	7522.6	2392.8	1004.2	480.6	286.9	268.3	256.8	246.7	232.4	232.4
75°	6792.4	5534.3	1826.1	905.2	444.7	246.7	226.7	219.5	205.1	193.7	196.5
77.5°	4282.0	3726.8	1202.1	665.6	344.3	198.0	180.7	176.4	165.0	149.2	159.2
80°	2892.0	2620.8	701.5	418.9	216.6	144.9	139.1	137.7	124.8	107.6	109.0
82.5°	1968.1	1930.8	364.4	238.1	124.8	84.6	81.8	84.6	70.3	57.4	57.4
85°	768.9	1050.1	172.1	93.2	40.2	12.9	18.6	20.1	11.5	5.7	7.2
87.5°	14.3	107.6	4.3	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°	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9
2.5°	5827.0	5814.1	5835.6	5743.8	5762.4	5796.8	5814.1	5824.1	5966.1	5933.1	6023.5
5°	4546.0	4533.0	4616.2	4627.7	4670.8	4662.1	4703.7	4713.8	4765.4	4784.1	4910.3
7.5°	3306.5	3362.5	3457.2	3505.9	3579.1	3602.0	3580.5	3633.6	3526.0	3603.5	3626.4
10°	2656.7	2589.3	2549.1	2661.0	2675.4	2781.5	2738.5	2704.0	2767.2	2770.0	2830.3
12.5°	2212.0	2067.1	1971.0	2002.6	2037.0	2082.9	2090.1	2158.9	2204.8	2247.9	2283.7
15°	1734.3	1684.1	1596.6	1553.6	1602.3	1621.0	1665.5	1722.8	1771.6	1784.5	1833.3
17.5°	1331.2	1339.8	1325.5	1299.7	1329.8	1344.1	1347.0	1348.4	1361.3	1352.7	1424.5
20°	1071.6	1101.7	1137.6	1143.3	1153.3	1160.5	1147.6	1098.8	1100.3	1130.4	1153.3
22.5°	969.7	975.5	1015.6	1028.5	1060.1	1047.2	1009.9	986.9	984.1	991.2	1002.7
25°	889.4	898.0	926.7	946.8	971.2	948.2	921.0	899.4	896.6	903.7	915.2
27.5°	817.7	830.6	856.4	876.5	899.4	877.9	852.1	833.4	832.0	830.6	837.8
30°	760.3	774.6	793.3	816.2	832.0	813.4	789.0	778.9	777.5	774.6	777.5
32.5°	702.9	725.9	744.5	756.0	771.8	757.4	738.8	733.0	723.0	714.4	710.1
35°	638.4	662.7	691.4	705.8	721.6	707.2	694.3	669.9	652.7	651.3	654.1
37.5°	601.1	611.1	634.1	658.4	674.2	667.0	642.7	618.3	614.0	614.0	616.8
40°	568.1	572.4	582.4	614.0	642.7	621.1	591.0	583.8	583.8	582.4	583.8
42.5°	535.1	539.4	539.4	563.8	609.7	575.2	552.3	552.3	552.3	553.7	558.0
45°	504.9	506.4	504.9	522.2	565.2	536.5	520.7	525.0	527.9	530.8	533.6
47.5°	479.1	480.6	479.1	493.5	515.0	503.5	494.9	500.6	506.4	510.7	513.6
50°	456.2	454.7	457.6	466.2	476.3	479.1	473.4	482.0	484.9	490.6	497.8
52.5°	436.1	434.7	437.5	441.8	456.2	456.2	456.2	463.3	469.1	474.8	484.9
55°	413.1	414.6	418.9	424.6	443.3	440.4	441.8	447.6	453.3	461.9	467.6
57.5°	391.6	394.5	400.2	408.8	427.5	426.0	427.5	430.4	437.5	441.8	447.6
60°	367.2	373.0	380.1	385.9	404.5	403.1	410.3	416.0	420.3	420.3	423.2
62.5°	342.8	351.5	358.6	362.9	383.0	384.4	394.5	398.8	401.7	398.8	403.1
65°	318.5	331.4	334.2	340.0	360.1	361.5	373.0	383.0	380.1	377.3	384.4
67.5°	294.1	309.9	308.4	315.6	335.7	338.5	348.6	365.8	360.1	357.2	362.9
70°	266.8	278.3	279.7	284.0	311.3	307.0	322.8	338.5	334.2	335.7	335.7
72.5°	236.7	246.7	246.7	255.3	284.0	276.9	289.8	307.0	307.0	305.5	305.5
75°	200.8	206.6	212.3	225.2	255.3	246.7	255.3	271.1	274.0	271.1	271.1
77.5°	162.1	170.7	173.6	190.8	212.3	210.9	219.5	226.7	232.4	229.5	229.5
80°	114.8	123.4	134.8	153.5	166.4	170.7	175.0	180.7	183.6	183.6	186.5
82.5°	64.6	77.5	87.5	106.2	111.9	133.4	132.0	136.3	132.0	116.2	129.1
85°	14.3	27.3	38.7	48.8	55.9	77.5	81.8	91.8	76.0	70.3	70.3
87.5°	0.0	0.0	0.0	0.0	0.0	11.5	23.0	31.6	27.3	23.0	23.0
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°	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9	6988.9
2.5°	6099.5	6224.3	6374.9	6634.6	6816.8	7013.3	7211.3	7422.1	7478.1	7535.5
5°	4944.7	5190.0	5323.5	5672.0	6037.8	6502.6	6882.8	7298.8	7472.3	7512.5
7.5°	3745.5	3911.9	4261.9	4614.8	5068.1	5555.8	6138.3	6786.7	6988.9	7073.6
10°	2969.4	3196.1	3503.1	3881.8	4279.1	4804.2	5461.2	6218.6	6505.5	6552.8
12.5°	2527.6	2780.1	3114.3	3514.5	3890.4	4286.3	4949.0	5730.9	6037.8	6139.7
15°	2021.2	2326.8	2712.7	3134.4	3543.2	3976.5	4647.8	5530.0	5884.3	6003.4
17.5°	1588.0	1834.7	2252.2	2709.8	3194.6	3742.6	4584.7	5626.1	6062.2	6172.7
20°	1215.0	1391.5	1742.9	2226.4	2794.4	3511.7	4600.5	5989.1	6511.2	6661.8
22.5°	1050.1	1140.4	1354.2	1814.7	2450.1	3310.8	4665.0	6486.8	7116.6	7367.6
25°	951.1	998.4	1118.9	1420.2	2121.6	3115.7	4812.8	7156.8	7962.9	8129.4
27.5°	866.4	900.9	975.5	1192.1	1823.3	2935.0	4984.9	7899.8	8753.4	9001.5
30°	786.1	832.0	902.3	1058.7	1632.5	2770.0	5201.5	8502.3	9419.0	9649.9
32.5°	724.4	770.3	834.9	965.4	1470.4	2596.5	5330.6	9031.7	9962.7	10159.2
35°	674.2	712.9	780.4	890.8	1347.0	2464.5	5304.8	9452.0	10489.1	10689.9
37.5°	638.4	671.3	738.8	820.5	1253.8	2326.8	5291.9	10007.1	11130.3	11362.7
40°	605.4	639.8	701.5	774.6	1160.5	2164.7	5299.1	10558.0	11813.2	12045.6
42.5°	579.5	618.3	668.5	761.7	1064.4	2034.1	5299.1	11037.1	12407.0	12630.8
45°	558.0	599.6	648.4	760.3	988.4	1935.1	5263.2	11448.8	12880.4	13071.2
47.5°	539.4	585.3	655.6	734.5	969.7	1863.4	5231.6	11778.7	13266.3	13445.6
50°	526.5	581.0	697.2	704.3	975.5	1841.9	5383.7	12194.7	13606.3	13761.2
52.5°	516.4	582.4	695.7	659.9	965.4	1856.3	5700.7	12844.6	14078.3	14089.7
55°	496.3	581.0	659.9	609.7	923.8	1880.6	6108.1	13788.5	14817.0	14825.6
57.5°	476.3	565.2	612.5	566.6	839.2	1880.6	6598.7	14682.2	15707.9	15715.0
60°	456.2	588.1	537.9	529.3	728.7	1846.2	7116.6	15075.2	15987.6	16060.7
62.5°	436.1	592.5	480.6	496.3	648.4	1763.0	7502.5	14640.6	15608.9	15713.6
65°	413.1	477.7	443.3	461.9	606.8	1623.9	7380.5	13844.4	14897.4	15022.2
67.5°	385.9	404.5	403.1	426.0	592.5	1418.7	6737.9	12837.4	14131.3	14124.2
70°	352.9	362.9	367.2	391.6	565.2	1259.5	5614.7	11530.6	13108.5	13269.2
72.5°	318.5	327.1	331.4	352.9	537.9	1169.1	4358.0	9730.3	11354.1	11605.2
75°	281.2	286.9	292.6	311.3	509.2	1035.7	3104.3	7427.9	8696.0	9090.5
77.5°	242.4	242.4	249.6	268.3	428.9	855.0	2082.9	5210.1	5891.5	6294.6
80°	196.5	198.0	195.1	215.2	315.6	585.3	1183.5	3480.1	3920.5	3998.0
82.5°	150.6	146.3	147.8	157.8	235.3	398.8	631.2	2161.8	2203.4	2160.4
85°	94.7	94.7	91.8	103.3	150.6	208.0	344.3	1324.0	1034.3	984.1
87.5°	38.7	31.6	35.9	41.6	71.7	84.6	134.8	272.6	104.7	96.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)