

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: P651790

Luminaire Tested: **GALN-SA3A-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8551.3 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

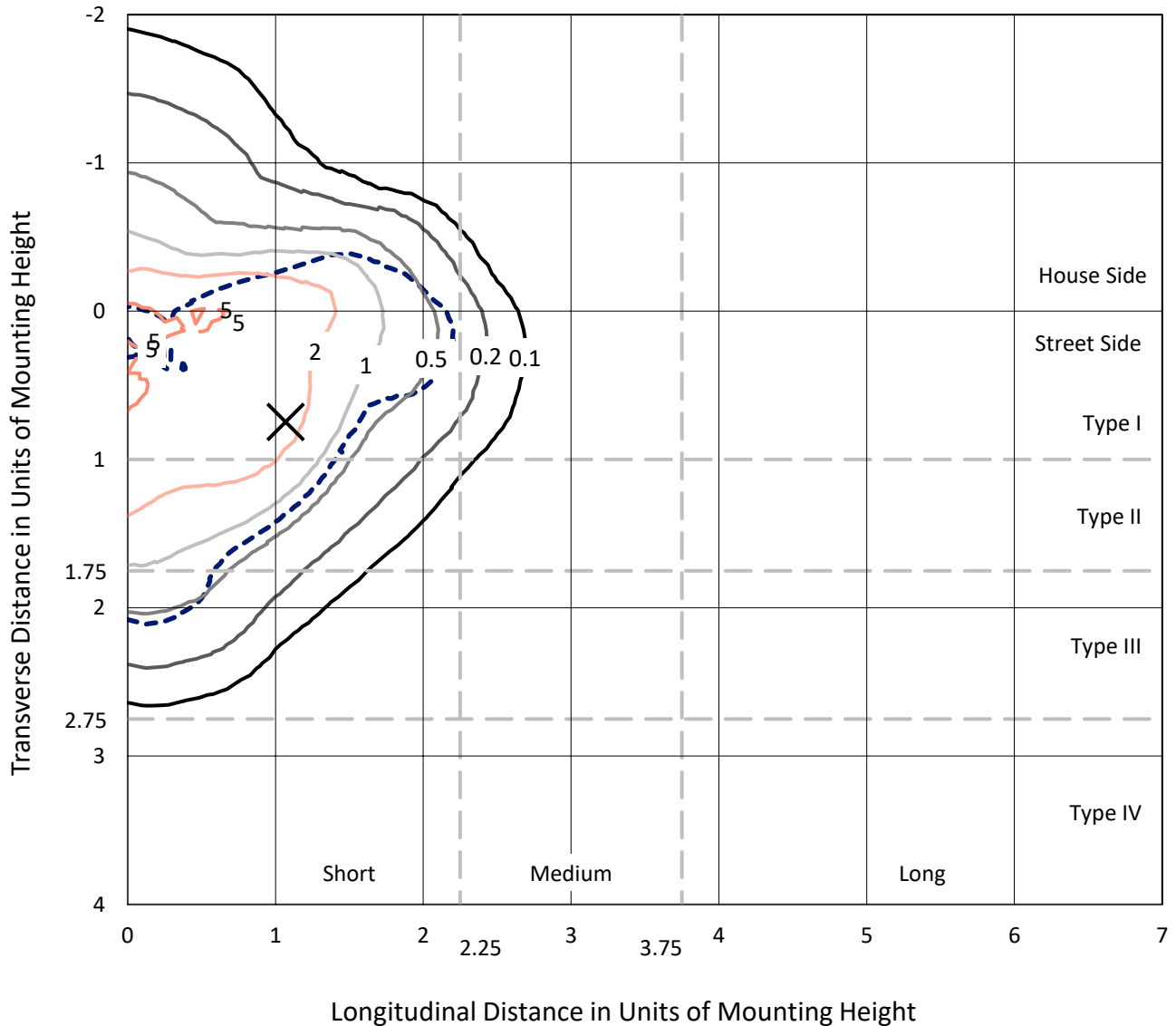
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

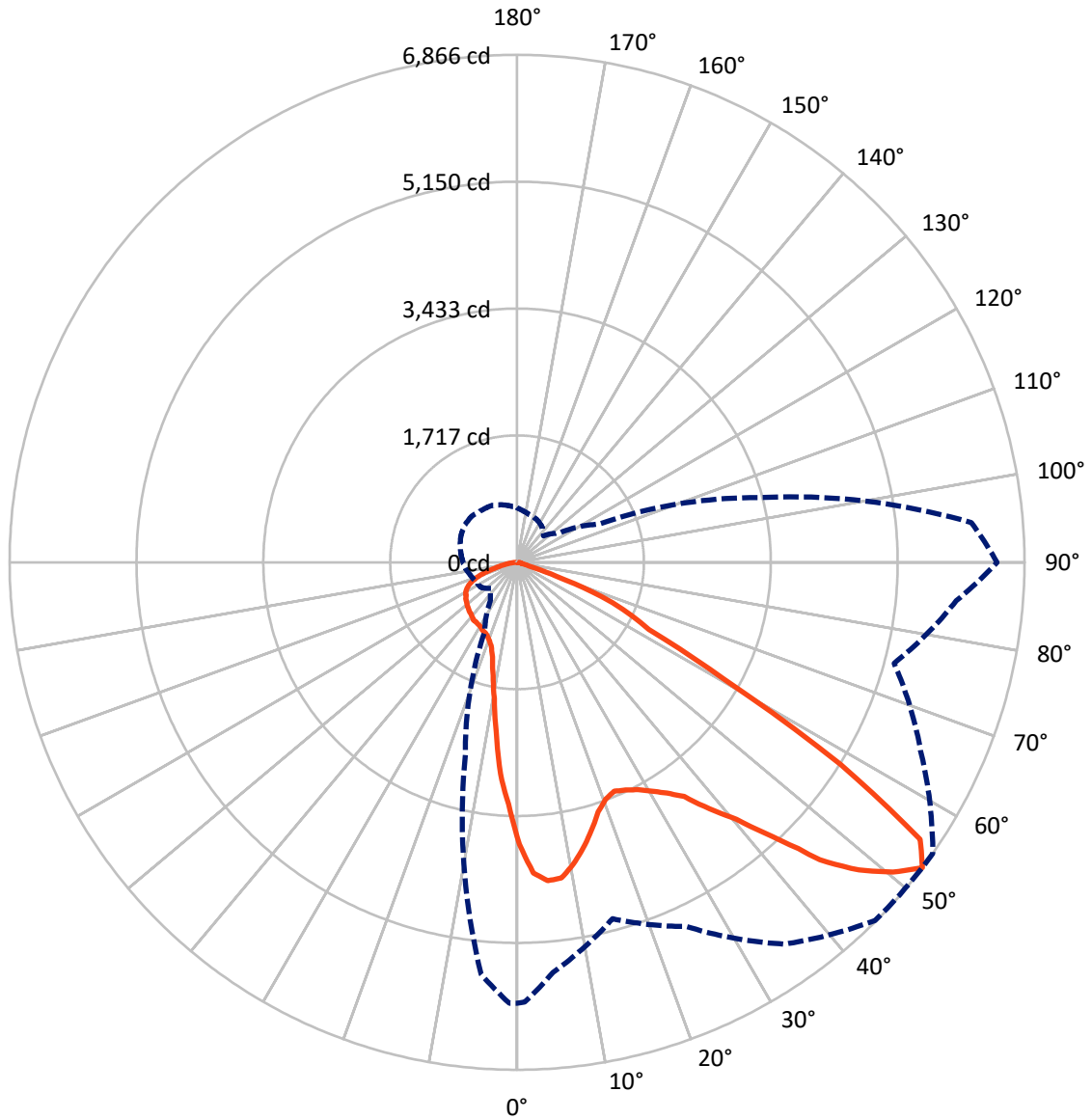
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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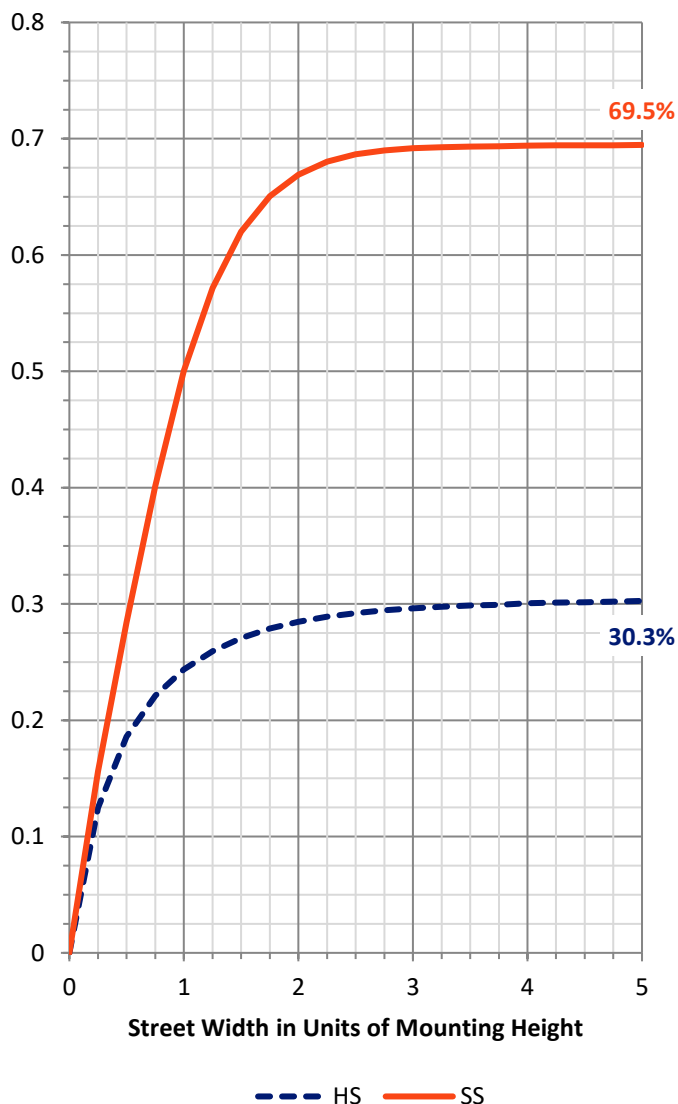
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2608.6	0.0	2608.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	5942.7	0.0	5942.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	8551.3	0.0	8551.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.4	3.4
10°-20°	628.3	7.3
20°-30°	952.8	11.1
30°-40°	1376.6	16.1
40°-50°	1839.5	21.5
50°-60°	2053.3	24.0
60°-70°	1126.3	13.2
70°-80°	243.5	2.8
80°-90°	39.4	0.5
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°	8551.3	100.0
0°-180°	8551.3	100.0

Coefficient of Utilization



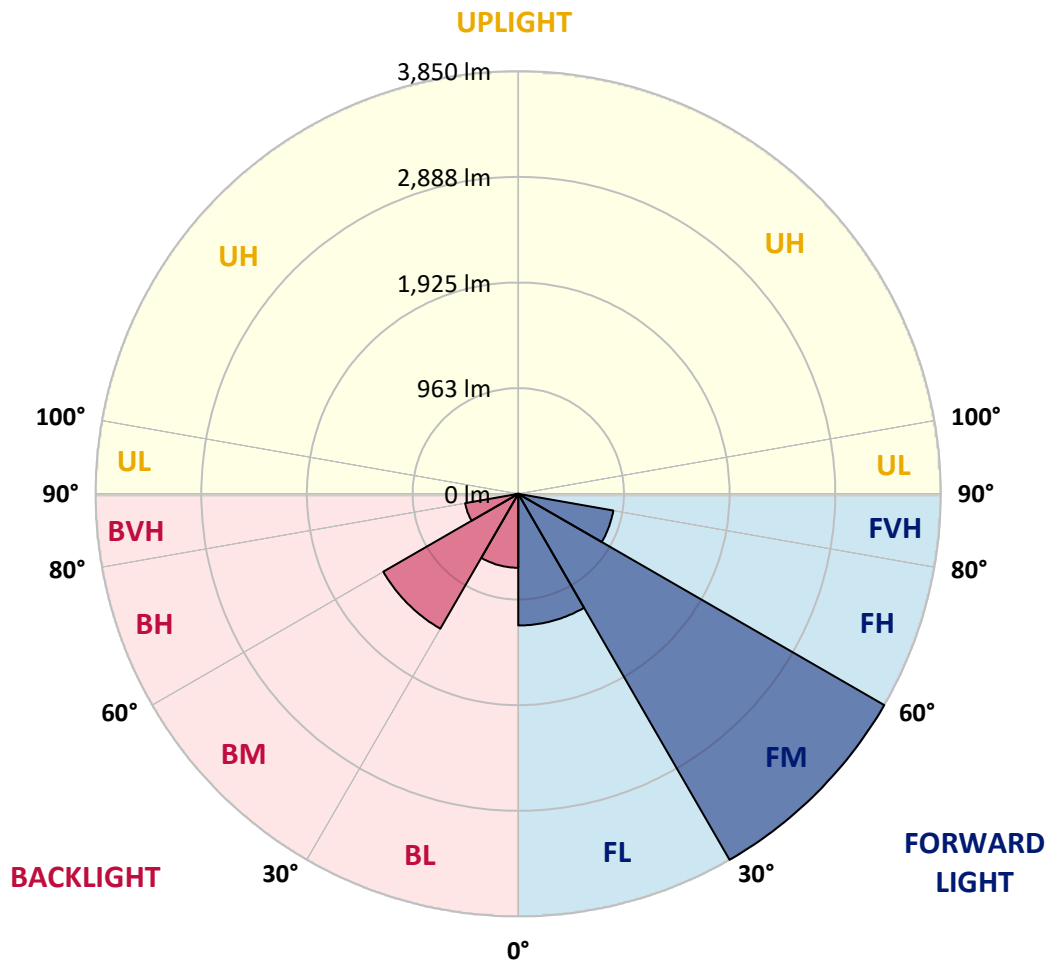
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1199.0	14.0			
FM (30°-60°)	3850.2	45.0			
FH (60°-80°)	878.9	10.3			G1/1800
FVH (80°-90°)	14.6	0.2			G1/100
BL (0°-30°)	673.5	7.9	B2/1000		
BM (30°-60°)	1419.3	16.6	B2/2500		
BH (60°-80°)	491.0	5.7	B1/500		G1/500
BVH (80°-90°)	24.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5
2.5°	4003.1	3980.6	4000.6	4095.5	4150.4	4187.8	4211.6	4207.9	4118.0	4030.6	4030.6
5°	3885.7	3857.0	3898.2	4113.0	4329.0	4347.7	4378.9	4327.7	4195.3	4035.5	3835.8
7.5°	3546.1	3567.3	3636.0	3918.1	4199.1	4340.2	4377.7	4312.7	4097.9	3799.6	3506.1
10°	3252.7	3302.6	3461.1	3765.8	4024.3	4207.9	4249.1	4157.9	3988.1	3622.3	3360.0
12.5°	3151.5	3120.3	3296.4	3601.0	3848.2	3946.9	3965.7	3971.9	3857.0	3532.4	3212.7
15°	3139.0	3159.0	3296.4	3527.3	3679.7	3684.7	3715.9	3764.6	3779.5	3593.5	3281.4
17.5°	3318.8	3295.1	3436.2	3619.7	3547.3	3474.9	3482.4	3552.3	3675.9	3646.0	3497.4
20°	3584.8	3638.5	3749.6	3730.8	3536.1	3352.6	3353.8	3420.0	3663.5	3863.2	3798.3
22.5°	4026.8	4079.3	4161.7	3935.6	3536.1	3316.3	3273.8	3363.7	3743.4	4121.7	4137.9
25°	4430.1	4526.3	4548.7	4282.8	3713.4	3350.0	3322.5	3411.3	3823.3	4374.0	4527.5
27.5°	4797.2	4832.1	4930.8	4506.2	3812.0	3372.5	3370.1	3483.7	3924.4	4500.0	4875.9
30°	5086.9	5083.2	5139.4	4647.4	3969.4	3498.6	3377.5	3592.2	4056.7	4708.5	5198.0
32.5°	5284.2	5326.6	5445.2	4843.4	4035.5	3618.5	3523.6	3719.7	4217.9	4807.2	5425.3
35°	5631.3	5704.9	5555.1	4952.1	4245.3	3737.2	3626.0	3893.2	4297.8	4914.6	5703.7
37.5°	5958.4	5902.2	5749.9	5010.7	4381.4	3956.9	3853.2	4229.1	4546.2	5148.1	5888.5
40°	6168.1	6167.0	5896.0	5058.2	4477.6	4292.7	4286.5	4569.9	4850.9	5295.4	6095.7
42.5°	6259.3	6346.8	5956.0	5053.1	4679.8	4699.8	4825.9	5079.4	5066.9	5325.4	6090.8
44°	6384.2	6436.7	6059.6	5064.4	4814.6	4974.5	5271.6	5432.8	5255.4	5309.1	6084.6
45°	6379.2	6382.9	5912.2	5079.4	4929.5	5204.3	5470.2	5742.4	5421.5	5274.2	6167.0
47.5°	6233.2	6190.7	5787.3	4968.3	5287.9	5811.1	6057.1	6221.9	5626.3	5199.2	6064.5
50°	5944.7	5896.0	5483.9	4920.8	5362.8	6188.2	6527.8	6587.7	5812.3	5125.6	5963.4
52.5°	5964.6	5950.9	5570.1	4992.0	5437.7	6306.7	6851.2	6866.2	6023.3	5280.4	5964.6
55°	6321.8	6274.3	5817.4	5080.6	5382.8	6168.1	6645.2	6618.9	5952.2	5186.8	6074.5
57.5°	5784.8	5816.1	5475.2	4729.8	4711.0	5014.5	5224.2	5159.3	4967.0	4681.1	5651.3
60°	4667.4	4756.0	4788.5	3955.6	3554.8	3398.7	3336.3	3221.5	3253.9	3845.7	4964.5
62.5°	4003.1	3998.1	4201.6	3586.0	2328.6	2002.8	1972.8	1999.1	2373.6	3785.8	4862.2
65°	3174.0	3258.9	3321.4	3039.1	1843.0	1487.1	1485.9	1651.9	2054.0	3164.0	3925.7
67.5°	2015.3	2126.4	2203.8	1944.1	1232.4	1058.8	1030.1	1229.9	1423.4	2075.2	2363.6
70°	1136.3	1188.7	1223.7	1121.2	784.1	549.4	517.0	564.4	860.3	1343.5	1400.9
72.5°	438.2	462.0	509.5	513.2	295.9	177.3	143.6	172.3	362.1	531.9	507.0
75°	67.4	72.4	102.3	122.4	84.9	64.9	68.7	71.1	101.2	137.3	114.9
77.5°	32.5	32.5	31.2	36.2	42.5	46.2	50.0	54.9	60.0	66.2	63.7
80°	21.2	21.2	21.2	25.0	31.2	37.4	42.5	44.9	47.4	52.5	50.0
82.5°	13.7	13.7	13.7	18.8	25.0	31.2	33.7	39.9	44.9	52.5	48.7
85°	7.5	7.5	7.5	12.4	18.8	26.2	25.0	20.0	11.3	1.3	2.5
87.5°	2.5	2.5	2.5	2.5	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°	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5
2.5°	3925.7	3868.3	3863.2	3745.9	3640.9	3589.8	3548.6	3433.7	3458.7	3392.5	3391.2
5°	3735.9	3618.5	3428.7	3272.7	3116.6	3085.4	2949.2	2830.6	2834.3	2749.5	2764.5
7.5°	3395.0	3313.9	3082.9	2838.1	2630.8	2483.5	2354.9	2277.5	2178.9	2145.1	2127.6
10°	3179.0	3079.1	2819.4	2512.2	2280.0	2201.3	2077.7	2009.1	1907.9	1857.9	1823.0
12.5°	3084.1	2938.0	2613.3	2301.2	2146.4	2065.2	1960.4	1835.5	1715.6	1669.4	1605.7
15°	3094.1	2919.3	2553.4	2216.3	2030.3	1872.9	1779.3	1640.7	1518.3	1437.2	1390.9
17.5°	3245.2	3032.9	2580.9	2151.4	1884.2	1686.9	1503.4	1353.5	1256.1	1194.9	1179.9
20°	3602.3	3313.9	2627.1	2046.5	1738.1	1492.1	1266.1	1110.0	1035.1	1033.8	1035.1
22.5°	3899.5	3613.5	2720.7	1984.1	1592.0	1242.4	1017.6	967.7	952.7	983.9	987.7
25°	4300.3	3950.6	2881.9	1951.6	1457.1	1058.8	920.2	901.5	900.3	940.2	941.5
27.5°	4711.0	4245.3	2978.0	1856.7	1319.8	964.0	861.5	857.8	877.8	920.2	916.5
30°	4990.7	4492.5	3151.5	1743.1	1157.5	880.3	837.8	842.9	870.3	902.7	907.8
32.5°	5316.6	4736.0	3196.5	1680.7	1057.6	810.4	780.4	791.6	826.6	877.8	905.3
35°	5690.0	4908.3	3265.2	1595.7	1020.1	756.6	741.7	754.2	796.6	830.3	860.3
37.5°	5965.9	5213.0	3277.6	1529.5	978.9	726.7	703.0	744.2	769.2	816.6	831.6
40°	6170.7	5434.0	3310.1	1488.3	946.5	688.0	688.0	715.4	749.2	792.9	822.8
42.5°	6301.8	5595.1	3333.8	1450.9	884.1	676.8	670.5	697.9	742.9	785.4	799.1
44°	6381.7	5663.7	3310.1	1415.9	866.6	663.0	663.0	686.8	721.7	771.6	787.8
45°	6401.7	5749.9	3257.6	1414.6	845.3	646.8	644.3	689.2	713.0	774.1	784.1
47.5°	6479.1	5856.1	3263.9	1374.7	794.2	608.0	651.8	671.8	693.0	746.6	780.4
50°	6476.6	5922.2	3250.1	1316.1	756.6	564.4	636.8	659.3	680.5	735.5	749.2
52.5°	6494.0	6169.4	3376.3	1222.4	689.2	508.2	586.8	636.8	663.0	709.2	737.9
55°	6485.4	6310.5	3501.2	1152.5	594.3	474.5	544.4	603.1	640.5	689.2	703.0
57.5°	5923.4	5577.6	3240.2	1021.4	492.0	434.5	484.5	568.1	615.6	665.5	683.0
60°	4839.6	4299.0	2672.0	751.7	404.5	399.6	450.8	556.9	576.8	620.6	650.5
62.5°	4472.5	3770.9	2118.9	574.4	345.9	365.8	415.8	503.2	534.4	588.1	615.6
65°	3499.9	2504.8	1312.3	388.3	304.7	328.4	375.8	440.8	492.0	541.9	574.4
67.5°	2072.7	1368.5	649.3	272.2	265.9	290.9	339.6	388.3	447.0	501.9	518.1
70°	1128.8	673.0	277.2	207.3	226.0	248.5	295.9	329.7	385.9	428.2	455.7
72.5°	362.1	204.8	138.6	153.6	172.3	198.6	227.2	268.4	308.4	333.4	355.8
75°	87.4	86.1	98.6	107.4	124.9	144.8	168.5	189.8	221.0	244.7	264.7
77.5°	61.1	66.2	76.2	88.6	94.9	102.3	117.4	133.6	147.3	164.8	177.3
80°	47.4	51.2	58.7	64.9	71.1	77.5	84.9	91.2	99.9	111.1	117.4
82.5°	44.9	47.4	54.9	58.7	56.2	54.9	60.0	62.4	63.7	67.4	71.1
85°	3.8	0.0	2.5	8.7	21.2	31.2	33.7	33.7	32.5	35.0	35.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.0	3.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5
2.5°	3376.3	3333.8	3350.0	3370.1	3341.3	3275.1	3292.6	3285.1	3352.6	3347.5	3415.0
5°	2830.6	2764.5	2771.9	2869.3	2838.1	2871.8	2804.4	2795.7	2808.2	2814.4	2825.6
7.5°	2166.3	2157.6	2232.5	2314.9	2353.6	2313.7	2247.5	2232.5	2218.8	2191.3	2253.8
10°	1768.0	1770.6	1765.5	1828.0	1871.6	1863.0	1823.0	1818.0	1791.8	1781.7	1816.7
12.5°	1578.2	1544.6	1528.3	1508.3	1542.1	1564.5	1547.0	1534.6	1535.8	1548.3	1553.2
15°	1394.7	1373.5	1338.5	1316.1	1332.3	1321.0	1314.8	1339.8	1333.5	1331.1	1361.0
17.5°	1188.7	1206.2	1203.6	1178.7	1199.9	1191.2	1189.9	1172.4	1148.7	1131.2	1141.2
20°	1052.6	1085.1	1110.0	1111.3	1122.5	1121.2	1102.6	1048.8	1031.4	1027.6	1030.1
22.5°	1003.9	1021.4	1051.3	1093.8	1093.8	1073.8	1051.3	988.9	972.7	955.2	947.7
25°	965.2	998.9	1037.6	1042.6	1062.6	1043.8	1007.6	976.4	942.7	919.0	919.0
27.5°	945.2	982.6	1011.4	1020.1	1047.6	1032.6	995.2	955.2	915.3	914.0	892.8
30°	936.5	971.4	990.2	1011.4	1023.8	1000.1	988.9	946.5	906.5	896.5	861.5
32.5°	910.2	960.2	995.2	990.2	1000.1	990.2	974.0	939.0	894.0	871.5	867.8
35°	880.3	930.2	967.7	993.9	1000.1	978.9	968.9	921.5	860.3	849.1	810.4
37.5°	864.0	894.0	940.2	982.6	991.4	980.2	946.5	897.8	836.5	824.1	790.4
40°	844.0	882.8	919.0	953.9	980.2	952.7	914.0	866.6	839.1	801.6	791.6
42.5°	829.1	872.8	902.7	941.5	971.4	935.2	890.3	857.8	819.1	794.2	765.4
44°	824.1	864.0	884.1	931.5	956.5	929.0	891.5	857.8	812.8	790.4	765.4
45°	806.6	861.5	882.8	925.3	946.5	924.0	876.5	842.9	810.4	782.9	756.6
47.5°	789.1	826.6	862.8	896.5	911.5	904.0	864.0	822.8	784.1	767.9	742.9
50°	784.1	821.6	855.3	886.5	904.0	889.0	852.8	812.8	767.9	741.7	720.5
52.5°	759.2	805.3	842.9	852.8	875.3	866.6	839.1	795.3	752.9	730.4	713.0
55°	722.9	771.6	822.8	835.4	867.8	854.0	812.8	771.6	735.5	701.7	679.3
57.5°	709.2	756.6	806.6	822.8	842.9	820.3	810.4	766.7	709.2	691.7	656.7
60°	674.2	734.2	775.4	812.8	814.1	807.9	790.4	740.4	693.0	660.5	635.5
62.5°	646.8	703.0	735.5	770.4	791.6	774.1	756.6	710.5	659.3	623.1	594.3
65°	606.9	658.0	685.5	706.7	730.4	728.0	697.9	664.3	610.6	581.9	554.4
67.5°	545.6	590.6	628.1	648.1	663.0	659.3	636.8	613.1	558.2	529.4	509.5
70°	472.0	518.1	541.9	553.1	568.1	575.6	558.2	546.9	498.2	460.7	442.0
72.5°	379.5	409.6	444.5	454.5	460.7	465.7	465.7	455.7	405.8	390.8	358.4
75°	279.7	303.4	329.7	329.7	340.9	342.1	344.6	338.3	300.9	281.0	273.4
77.5°	189.8	207.3	228.5	237.2	244.7	243.5	242.2	224.7	204.8	196.0	188.6
80°	123.6	141.1	151.0	162.3	169.8	168.5	171.1	158.6	149.9	134.8	137.3
82.5°	73.7	87.4	97.4	111.1	111.1	114.9	114.9	111.1	102.3	94.9	94.9
85°	35.0	46.2	52.5	61.1	66.2	67.4	60.0	51.2	42.5	38.7	42.5
87.5°	6.2	8.7	12.4	11.3	13.7	12.4	12.4	12.4	12.4	10.0	11.3
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°	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5
2.5°	3390.0	3452.5	3496.1	3568.5	3693.4	3793.3	3895.7	3971.9	3980.6	4003.1
5°	2866.8	2900.5	3011.7	3156.5	3258.9	3427.5	3536.1	3733.4	3807.0	3885.7
7.5°	2238.7	2293.7	2442.3	2539.7	2764.5	2975.5	3193.9	3437.4	3534.8	3546.1
10°	1887.9	1967.9	2068.9	2225.0	2347.4	2582.1	2854.4	3125.3	3233.9	3252.7
12.5°	1658.2	1760.5	1895.4	2007.8	2125.1	2329.9	2590.9	2925.5	3066.6	3151.5
15°	1437.2	1543.3	1691.8	1847.9	1951.6	2196.4	2503.5	2880.6	3064.1	3139.0
17.5°	1209.9	1308.6	1430.9	1599.5	1808.0	2082.7	2489.8	3030.4	3231.5	3318.8
20°	1015.1	1070.1	1212.4	1386.0	1646.9	1966.6	2494.7	3251.4	3546.1	3584.8
22.5°	939.0	951.4	1007.6	1167.5	1453.4	1847.9	2583.4	3564.8	3899.5	4026.8
25°	880.3	877.8	892.8	1000.1	1312.3	1801.8	2670.8	3853.2	4291.5	4430.1
27.5°	847.8	822.8	824.1	925.3	1212.4	1726.8	2783.2	4184.1	4736.0	4797.2
30°	831.6	826.6	811.6	852.8	1103.8	1614.5	2801.9	4510.0	4998.2	5086.9
32.5°	821.6	772.9	754.2	769.2	1001.4	1492.1	2871.8	4724.8	5322.9	5284.2
35°	771.6	728.0	715.4	730.4	929.0	1423.4	2825.6	4912.1	5566.3	5631.3
37.5°	752.9	714.2	689.2	676.8	861.5	1366.0	2801.9	5200.5	5802.3	5958.4
40°	735.5	694.2	664.3	651.8	809.1	1289.8	2794.4	5422.8	6074.5	6168.1
42.5°	715.4	689.2	655.6	633.0	745.5	1213.6	2708.3	5491.4	6158.2	6259.3
44°	709.2	669.3	634.3	626.8	720.5	1175.0	2690.8	5553.9	6230.6	6384.2
45°	703.0	665.5	625.5	615.6	711.7	1153.7	2667.1	5568.8	6350.5	6379.2
47.5°	685.5	661.8	623.1	595.6	693.0	1107.5	2595.9	5483.9	6228.1	6233.2
50°	671.8	644.3	604.3	550.6	668.0	1068.8	2628.4	5452.7	5933.4	5944.7
52.5°	656.7	615.6	593.1	500.7	626.8	1036.4	2697.0	5593.8	5967.1	5964.6
55°	639.3	594.3	539.4	458.3	558.2	995.2	2863.1	5872.3	6279.3	6321.8
57.5°	611.8	573.1	494.4	420.8	479.5	916.5	2809.4	5339.1	5777.3	5784.8
60°	575.6	539.4	448.3	392.1	393.3	722.9	2512.2	4160.4	4558.7	4667.4
62.5°	540.7	520.7	409.6	350.9	334.6	575.6	2123.9	3457.4	3913.2	4003.1
65°	499.5	450.8	375.8	319.7	287.2	403.3	1504.5	2583.4	3052.9	3174.0
67.5°	447.0	394.6	330.8	281.0	246.0	269.7	776.7	1468.4	1944.1	2015.3
70°	390.8	342.1	278.5	237.2	198.6	186.0	342.1	700.5	1062.6	1136.3
72.5°	320.9	275.9	222.3	187.3	148.6	128.6	114.9	187.3	377.1	438.2
75°	232.3	201.0	167.3	133.6	104.9	82.4	67.4	56.2	62.4	67.4
77.5°	171.1	146.1	123.6	94.9	73.7	58.7	46.2	35.0	33.7	32.5
80°	133.6	118.6	98.6	76.2	57.4	43.7	32.5	23.7	21.2	21.2
82.5°	104.9	97.4	81.2	62.4	47.4	35.0	23.7	16.2	13.7	13.7
85°	39.9	39.9	58.7	51.2	36.2	25.0	16.2	8.7	7.5	7.5
87.5°	10.0	10.0	10.0	10.0	8.7	7.5	7.5	3.8	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)