

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: P459019

Luminaire Tested: **GALN-SA5B-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459019
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-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 22882 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

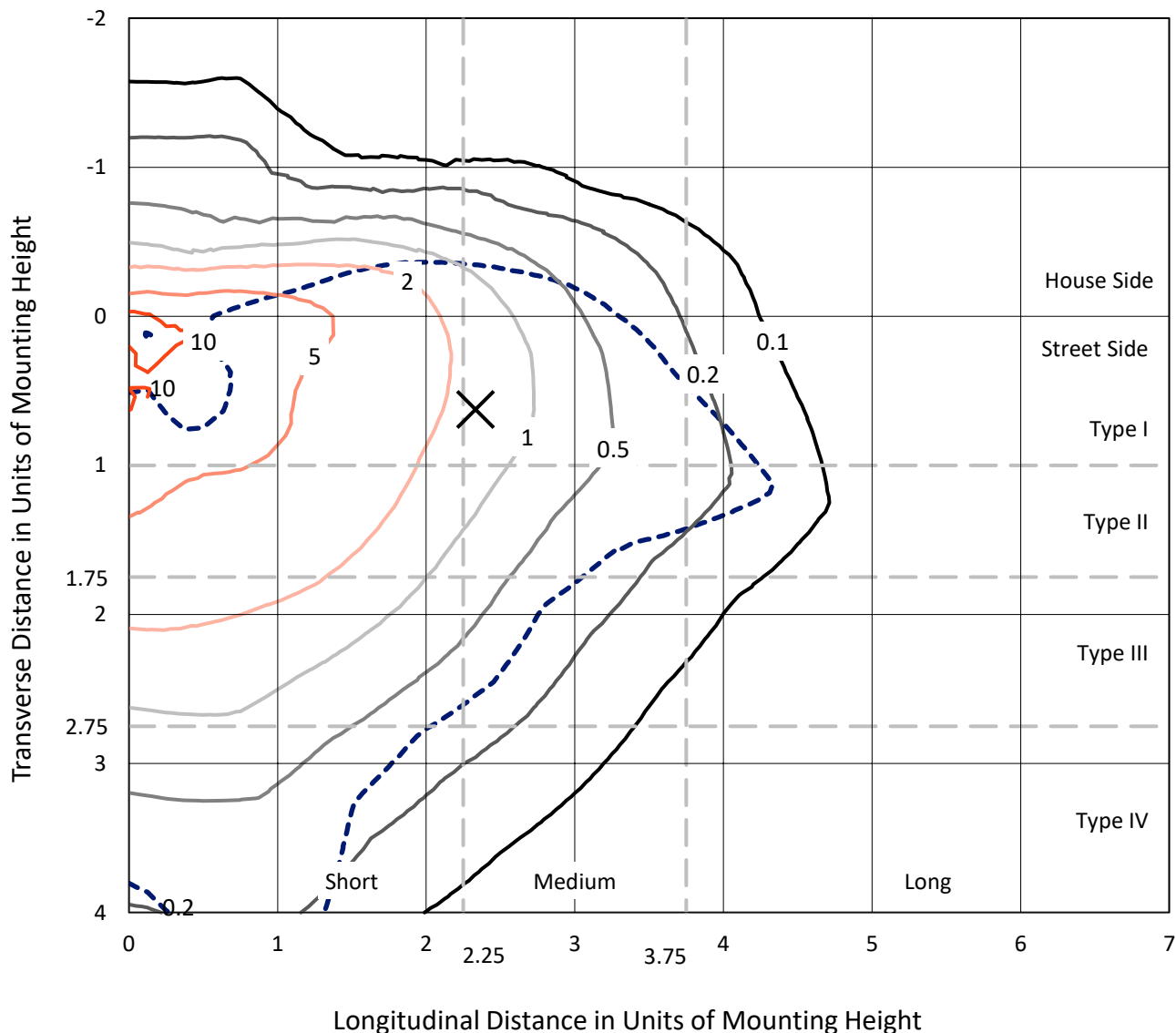
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

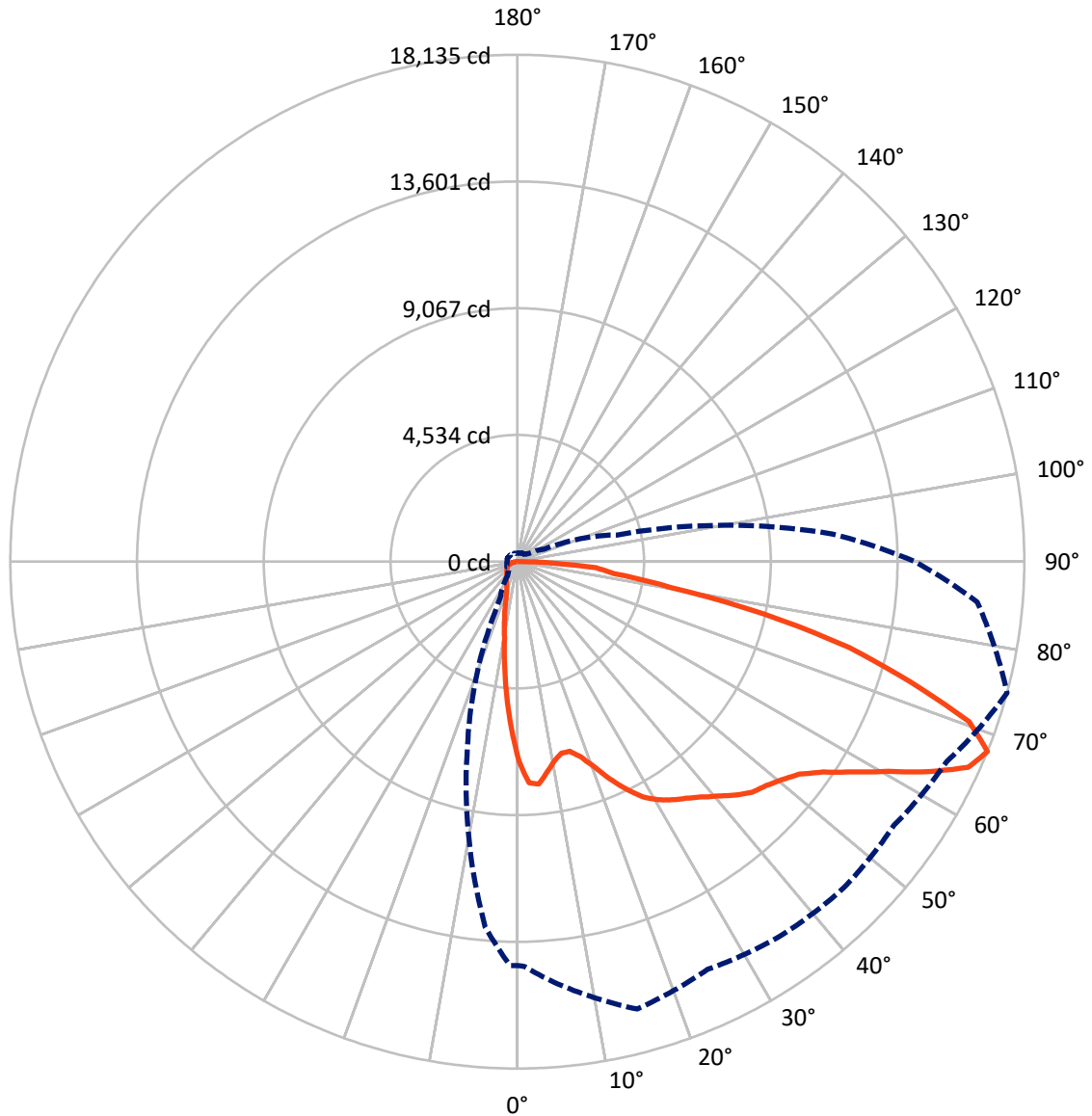
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	3867.5	0.0	3867.5
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	19014.5	0.0	19014.5
	% Fixture	83.1	0.0	83.1
Total	Lumens	22882.0	0.0	22882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.2	2.4
10°-20°	1130.8	4.9
20°-30°	1627.3	7.1
30°-40°	2343.7	10.2
40°-50°	3292.3	14.4
50°-60°	4591.6	20.1
60°-70°	5459.1	23.9
70°-80°	3215.1	14.1
80°-90°	679.9	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°	22882.0	100.0
0°-180°	22882.0	100.0

Coefficient of Utilization



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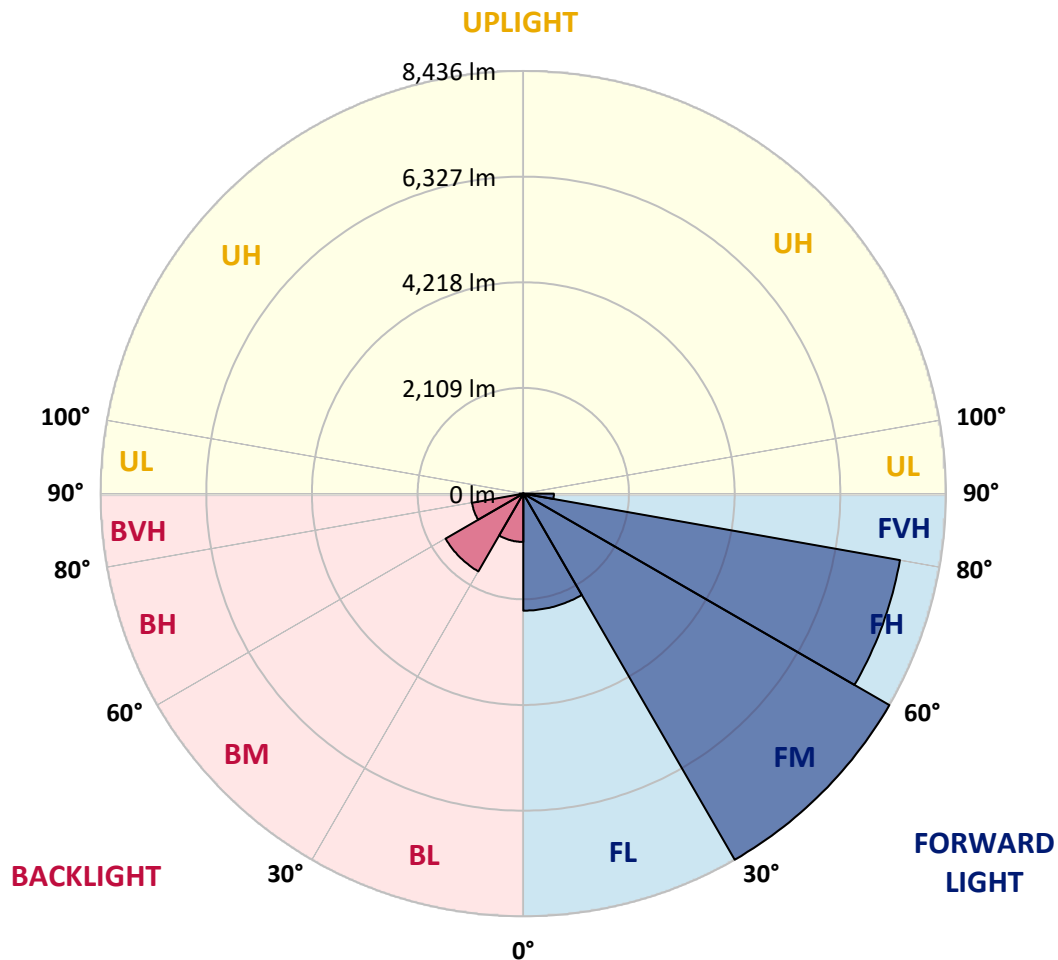
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2335.6	10.2			
FM	(30°-60°)	8435.7	36.9			
FH	(60°-80°)	7633.5	33.4			G4/12000
FVH	(80°-90°)	609.6	2.7			G4/750
BL	(0°-30°)	964.7	4.2	B2/1000		
BM	(30°-60°)	1791.8	7.8	B2/2500		
BH	(60°-80°)	1040.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	70.3	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°	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9
2.5°	7707.9	7718.2	7784.2	7976.5	8108.5	8156.9	8190.7	8127.6	8066.0	7916.3	7690.3
5°	7684.5	7744.6	7916.3	8347.7	8688.1	8834.9	8878.9	8689.6	8377.0	7992.6	7530.4
7.5°	7235.5	7316.2	7580.3	8303.7	8903.8	9247.2	9201.7	8859.8	8296.3	7611.1	6965.5
10°	6702.8	6792.3	7110.7	7985.3	8758.5	9231.0	9231.0	8814.3	8066.0	7251.6	6507.7
12.5°	6280.2	6374.1	6738.0	7658.0	8456.3	8903.8	8978.7	8620.6	7900.2	7024.2	6206.8
15°	6140.8	6231.8	6623.6	7460.0	8136.4	8409.3	8434.3	8316.9	7819.5	7040.3	6193.6
17.5°	6314.0	6431.3	6827.5	7518.6	7842.9	7859.1	7878.1	7970.6	7828.3	7335.2	6460.7
20°	6814.3	6940.5	7354.3	7707.9	7586.1	7418.9	7429.1	7666.8	7932.4	7822.4	7099.0
22.5°	7536.3	7646.3	8070.4	8041.0	7477.6	7132.7	7060.8	7392.5	8086.5	8429.9	7778.4
25°	8315.4	8444.5	8931.7	8535.5	7508.4	6962.5	6917.0	7231.0	8246.4	8997.7	8563.4
27.5°	9207.6	9333.7	9718.2	9034.4	7669.8	6949.3	6895.0	7216.4	8390.2	9523.0	9313.2
30°	9870.8	9986.7	10247.9	9454.1	7867.9	7037.4	6969.9	7332.3	8513.5	9882.5	10043.9
32.5°	10391.7	10512.0	10654.4	9715.3	8129.1	7197.3	7072.6	7543.6	8674.9	10156.9	10585.4
35°	10934.6	11076.9	11066.7	9947.1	8372.6	7382.2	7260.4	7848.8	8928.8	10396.1	11272.1
37.5°	11622.8	11680.0	11606.7	10155.5	8664.6	7715.3	7647.8	8302.2	9289.7	10685.2	12074.7
40°	12321.3	12435.7	12058.6	10407.8	9019.7	8341.8	8334.5	8972.8	9718.2	11024.1	12852.4
42.5°	12919.9	13016.8	12481.2	10627.9	9449.7	9106.3	9162.1	9872.3	10280.2	11417.4	13477.5
45°	13370.4	13457.0	12871.5	10840.7	10016.1	9989.6	10318.3	10836.3	10988.9	11771.0	13844.3
47.5°	13753.4	13837.0	13143.0	11163.5	10716.0	11044.7	11616.9	11841.4	11594.9	11973.5	14255.2
50°	14076.2	14101.1	13329.3	11548.0	11584.6	12337.4	12892.0	13037.3	12193.6	12264.0	14611.8
52.5°	14412.2	14379.9	13650.7	12032.2	12523.7	13564.1	13967.6	14118.7	12767.3	12622.1	15131.2
55°	15165.0	15195.8	14371.1	12642.6	13473.1	14768.8	15299.9	15154.7	13402.7	13280.9	15791.5
57.5°	16074.7	16048.3	15385.1	13597.8	14440.1	15889.8	16286.0	16052.7	14250.8	14186.2	16460.6
60°	16428.3	16463.5	16233.2	14625.0	15393.9	16871.5	17276.5	16914.0	15267.7	15238.3	16965.4
62.5°	16073.2	16271.3	16426.9	15539.1	16206.8	17593.4	17995.5	17581.7	16328.6	16541.3	17319.0
65°	15366.0	15408.5	15938.2	16313.9	16598.5	17712.3	17922.1	17702.0	17214.8	17728.4	17302.9
67.5°	14447.4	14484.1	15104.8	16567.7	16093.8	16362.3	16509.0	16444.5	16940.4	18134.8	16506.1
70°	13572.9	13543.5	14199.4	15920.6	14010.2	13602.2	13724.0	13521.5	14617.6	17141.5	14943.4
72.5°	11870.8	11976.4	12680.7	14121.7	11093.1	10429.8	10695.4	10171.6	11242.8	14680.7	12129.0
75°	9298.5	9323.5	10498.8	11851.7	8368.2	7322.0	7681.5	7462.9	8611.8	12246.4	8375.6
77.5°	6438.7	6382.9	7646.3	9052.0	5967.7	5360.2	5366.1	5261.9	6013.2	9016.8	5690.3
80°	4089.5	4004.4	4786.5	5592.0	4101.2	4387.3	4243.5	4239.1	3914.9	5562.7	3440.9
82.5°	2209.8	2303.7	3024.2	3505.5	2942.0	3391.0	3107.8	3016.9	2686.7	3482.0	2201.0
85°	1006.6	1094.6	1612.6	2384.4	2234.8	2259.7	1509.9	1781.4	2223.0	2827.6	1175.3
87.5°	98.3	126.2	333.1	1125.4	763.0	601.6	224.5	432.9	559.1	1005.1	93.9
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°	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9
2.5°	7597.9	7521.6	7261.9	7047.6	6820.2	6647.0	6421.1	6269.9	6165.8	6008.8	5989.7
5°	7248.7	7062.3	6610.4	6149.6	5752.0	5452.6	5148.9	4870.1	4705.8	4654.4	4588.4
7.5°	6660.3	6346.2	5765.2	5236.9	4780.6	4334.5	3991.2	3747.6	3584.7	3489.3	3374.9
10°	6176.0	5812.1	5104.9	4457.8	4082.1	3804.8	3502.5	3241.4	3040.3	2868.6	2774.7
12.5°	5850.3	5439.4	4644.1	4118.8	3828.3	3533.4	3179.7	2886.3	2589.9	2394.7	2311.1
15°	5752.0	5317.6	4501.8	3950.1	3533.4	3147.4	2751.3	2368.3	2074.8	1889.9	1828.3
17.5°	5992.6	5467.3	4500.3	3725.6	3187.1	2726.3	2218.6	1859.1	1558.3	1420.4	1376.4
20°	6441.6	5754.9	4513.5	3504.0	2811.4	2162.9	1614.1	1319.1	1175.3	1116.6	1094.6
22.5°	7068.2	6193.6	4553.2	3285.4	2400.6	1661.0	1209.1	1059.4	1008.1	997.8	993.4
25°	7840.0	6736.6	4686.7	3088.7	2054.3	1267.8	1011.0	943.5	914.2	903.9	902.4
27.5°	8550.2	7437.9	4848.1	2920.0	1719.7	1093.2	914.2	856.9	827.6	826.1	829.0
30°	9191.4	8024.9	4983.1	2730.7	1465.9	971.4	851.1	793.8	766.0	764.5	773.3
32.5°	9746.1	8507.6	5082.9	2544.4	1325.0	896.5	793.8	732.2	708.7	704.3	708.7
35°	10338.9	8988.9	5037.4	2399.1	1244.3	834.9	751.3	691.1	663.2	650.0	650.0
37.5°	11015.3	9484.9	4959.6	2278.8	1207.6	783.6	714.6	655.9	628.0	614.8	613.3
40°	11753.4	9980.8	4852.5	2171.7	1170.9	752.7	689.6	628.0	594.3	581.1	578.1
42.5°	12404.9	10404.9	4764.5	2101.2	1110.8	758.6	667.6	607.5	564.9	547.3	545.9
45°	12971.3	10831.9	4748.3	2060.1	1060.9	749.8	661.8	591.3	541.4	522.4	519.4
47.5°	13414.4	11276.5	4840.8	2036.7	1006.6	702.9	699.9	581.1	520.9	500.4	497.4
50°	13954.4	11907.5	5052.1	1988.2	956.7	658.8	739.5	579.6	504.8	478.4	471.0
52.5°	14673.4	12729.2	5338.2	1901.7	884.8	617.7	705.8	579.6	485.7	459.3	450.5
55°	15760.7	13776.9	5618.4	1779.9	783.6	563.5	636.8	562.0	457.8	434.3	428.5
57.5°	16481.2	14542.8	5797.5	1611.1	657.4	523.8	548.8	534.1	429.9	405.0	405.0
60°	16517.8	14748.2	5712.4	1398.4	578.1	487.2	476.9	538.5	405.0	378.6	375.6
62.5°	16095.2	14244.9	5269.2	1207.6	535.6	447.5	431.4	472.5	380.0	353.6	349.2
65°	15434.9	12961.0	4500.3	1116.6	512.1	412.3	388.8	387.4	353.6	328.7	322.8
67.5°	14221.5	11326.4	3697.7	1063.8	500.4	372.7	350.7	343.4	322.8	302.3	299.3
70°	12432.8	9486.4	2965.5	1041.8	494.5	331.6	314.0	305.2	287.6	271.5	270.0
72.5°	9672.7	7694.7	2447.5	1027.1	491.6	293.5	274.4	262.7	252.4	237.7	237.7
75°	6947.9	5661.0	1867.9	925.9	454.9	252.4	231.8	224.5	209.8	198.1	201.0
77.5°	4380.0	3812.1	1229.6	680.8	352.2	202.5	184.9	180.5	168.7	152.6	162.9
80°	2958.2	2680.8	717.5	428.5	221.6	148.2	142.3	140.9	127.7	110.1	111.5
82.5°	2013.2	1975.0	372.7	243.6	127.7	86.6	83.6	86.6	71.9	58.7	58.7
85°	786.5	1074.1	176.1	95.4	41.1	13.2	19.1	20.5	11.7	5.9	7.3
87.5°	14.7	110.1	4.4	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°	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9
2.5°	5960.3	5947.1	5969.1	5875.2	5894.3	5929.5	5947.1	5957.4	6102.7	6068.9	6161.4
5°	4650.0	4636.8	4721.9	4733.6	4777.7	4768.9	4811.4	4821.7	4874.5	4893.6	5022.7
7.5°	3382.2	3439.4	3536.3	3586.2	3661.0	3684.5	3662.5	3716.8	3606.7	3686.0	3709.4
10°	2717.5	2648.5	2607.5	2721.9	2736.6	2845.2	2801.2	2765.9	2830.5	2833.4	2895.1
12.5°	2262.6	2114.4	2016.1	2048.4	2083.6	2130.6	2137.9	2208.3	2255.3	2299.3	2336.0
15°	1774.0	1722.7	1633.1	1589.1	1639.0	1658.1	1703.6	1762.3	1812.2	1825.4	1875.3
17.5°	1361.7	1370.5	1355.8	1329.4	1360.2	1374.9	1377.8	1379.3	1392.5	1383.7	1457.1
20°	1096.1	1126.9	1163.6	1169.5	1179.7	1187.1	1173.9	1124.0	1125.4	1156.3	1179.7
22.5°	991.9	997.8	1038.9	1052.1	1084.4	1071.2	1033.0	1009.5	1006.6	1013.9	1025.7
25°	909.8	918.6	947.9	968.4	993.4	969.9	942.0	920.0	917.1	924.4	936.2
27.5°	836.4	849.6	876.0	896.5	920.0	898.0	871.6	852.5	851.1	849.6	856.9
30°	777.7	792.4	811.4	834.9	851.1	832.0	807.0	796.8	795.3	792.4	795.3
32.5°	719.0	742.5	761.5	773.3	789.4	774.8	755.7	749.8	739.5	730.7	726.3
35°	653.0	677.9	707.3	721.9	738.1	723.4	710.2	685.2	667.6	666.2	669.1
37.5°	614.8	625.1	648.6	673.5	689.6	682.3	657.4	632.4	628.0	628.0	631.0
40°	581.1	585.5	595.7	628.0	657.4	635.4	604.5	597.2	597.2	595.7	597.2
42.5°	547.3	551.7	551.7	576.7	623.6	588.4	564.9	564.9	564.9	566.4	570.8
45°	516.5	518.0	516.5	534.1	578.1	548.8	532.6	537.0	540.0	542.9	545.9
47.5°	490.1	491.6	490.1	504.8	526.8	515.0	506.2	512.1	518.0	522.4	525.3
50°	466.6	465.1	468.1	476.9	487.2	490.1	484.2	493.0	496.0	501.8	509.2
52.5°	446.1	444.6	447.5	451.9	466.6	466.6	466.6	474.0	479.8	485.7	496.0
55°	422.6	424.1	428.5	434.3	453.4	450.5	451.9	457.8	463.7	472.5	478.4
57.5°	400.6	403.5	409.4	418.2	437.3	435.8	437.3	440.2	447.5	451.9	457.8
60°	375.6	381.5	388.8	394.7	413.8	412.3	419.7	425.5	429.9	429.9	432.9
62.5°	350.7	359.5	366.8	371.2	391.8	393.2	403.5	407.9	410.9	407.9	412.3
65°	325.7	339.0	341.9	347.8	368.3	369.8	381.5	391.8	388.8	385.9	393.2
67.5°	300.8	316.9	315.5	322.8	343.4	346.3	356.6	374.2	368.3	365.4	371.2
70°	272.9	284.7	286.1	290.5	318.4	314.0	330.2	346.3	341.9	343.4	343.4
72.5°	242.1	252.4	252.4	261.2	290.5	283.2	296.4	314.0	314.0	312.5	312.5
75°	205.4	211.3	217.2	230.4	261.2	252.4	261.2	277.3	280.3	277.3	277.3
77.5°	165.8	174.6	177.5	195.2	217.2	215.7	224.5	231.8	237.7	234.8	234.8
80°	117.4	126.2	137.9	157.0	170.2	174.6	179.0	184.9	187.8	187.8	190.8
82.5°	66.0	79.2	89.5	108.6	114.5	136.5	135.0	139.4	135.0	118.9	132.1
85°	14.7	27.9	39.6	49.9	57.2	79.2	83.6	93.9	77.8	71.9	71.9
87.5°	0.0	0.0	0.0	0.0	0.0	11.7	23.5	32.3	27.9	23.5	23.5
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°	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9	7148.9
2.5°	6239.1	6366.8	6520.9	6786.4	6972.8	7173.8	7376.3	7592.0	7649.2	7707.9
5°	5057.9	5308.8	5445.3	5801.9	6176.0	6651.5	7040.3	7465.8	7643.4	7684.5
7.5°	3831.2	4001.4	4359.5	4720.4	5184.1	5683.0	6278.7	6942.0	7148.9	7235.5
10°	3037.4	3269.2	3583.2	3970.6	4377.1	4914.1	5586.2	6360.9	6654.4	6702.8
12.5°	2585.5	2843.7	3185.6	3595.0	3979.4	4384.4	5062.3	5862.0	6176.0	6280.2
15°	2067.5	2380.0	2774.7	3206.1	3624.3	4067.5	4754.2	5656.6	6019.0	6140.8
17.5°	1624.3	1876.7	2303.7	2771.8	3267.8	3828.3	4689.6	5754.9	6201.0	6314.0
20°	1242.8	1423.3	1782.8	2277.3	2858.4	3592.0	4705.8	6126.1	6660.3	6814.3
22.5°	1074.1	1166.5	1385.2	1856.2	2506.2	3386.6	4771.8	6635.3	7279.5	7536.3
25°	972.8	1021.3	1144.5	1452.7	2170.2	3187.1	4922.9	7320.6	8145.2	8315.4
27.5°	886.3	921.5	997.8	1219.4	1865.0	3002.2	5099.0	8080.6	8953.7	9207.6
30°	804.1	851.1	923.0	1082.9	1669.8	2833.4	5320.6	8696.9	9634.6	9870.8
32.5°	741.0	788.0	854.0	987.5	1504.0	2655.9	5452.6	9238.4	10190.7	10391.7
35°	689.6	729.3	798.2	911.2	1377.8	2520.9	5426.2	9668.3	10729.2	10934.6
37.5°	653.0	686.7	755.7	839.3	1282.5	2380.0	5413.0	10236.2	11385.1	11622.8
40°	619.2	654.4	717.5	792.4	1187.1	2214.2	5420.4	10799.6	12083.5	12321.3
42.5°	592.8	632.4	683.8	779.2	1088.8	2080.7	5420.4	11289.7	12691.0	12919.9
45°	570.8	613.3	663.2	777.7	1011.0	1979.4	5383.7	11710.8	13175.2	13370.4
47.5°	551.7	598.7	670.6	751.3	991.9	1906.1	5351.4	12048.3	13570.0	13753.4
50°	538.5	594.3	713.1	720.5	997.8	1884.1	5506.9	12473.9	13917.7	14076.2
52.5°	528.2	595.7	711.7	675.0	987.5	1898.7	5831.2	13138.6	14400.5	14412.2
55°	507.7	594.3	675.0	623.6	945.0	1923.7	6247.9	14104.1	15156.2	15165.0
57.5°	487.2	578.1	626.6	579.6	858.4	1923.7	6749.8	15018.2	16067.4	16074.7
60°	466.6	601.6	550.3	541.4	745.4	1888.5	7279.5	15420.3	16353.5	16428.3
62.5°	446.1	606.0	491.6	507.7	663.2	1803.4	7674.2	14975.7	15966.1	16073.2
65°	422.6	488.6	453.4	472.5	620.7	1661.0	7549.5	14161.3	15238.3	15366.0
67.5°	394.7	413.8	412.3	435.8	606.0	1451.2	6892.1	13131.2	14454.8	14447.4
70°	361.0	371.2	375.6	400.6	578.1	1288.3	5743.2	11794.5	13408.5	13572.9
72.5°	325.7	334.6	339.0	361.0	550.3	1195.9	4457.8	9953.0	11614.0	11870.8
75°	287.6	293.5	299.3	318.4	520.9	1059.4	3175.3	7597.9	8895.0	9298.5
77.5°	248.0	248.0	255.3	274.4	438.7	874.5	2130.6	5329.4	6026.4	6438.7
80°	201.0	202.5	199.6	220.1	322.8	598.7	1210.6	3559.8	4010.2	4089.5
82.5°	154.1	149.7	151.1	161.4	240.6	407.9	645.6	2211.3	2253.8	2209.8
85°	96.8	96.8	93.9	105.6	154.1	212.8	352.2	1354.4	1058.0	1006.6
87.5°	39.6	32.3	36.7	42.6	73.4	86.6	137.9	278.8	107.1	98.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)