

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: P458004

Luminaire Tested: **GALN-SA9B-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458004
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-SA9B-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 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: 32687 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

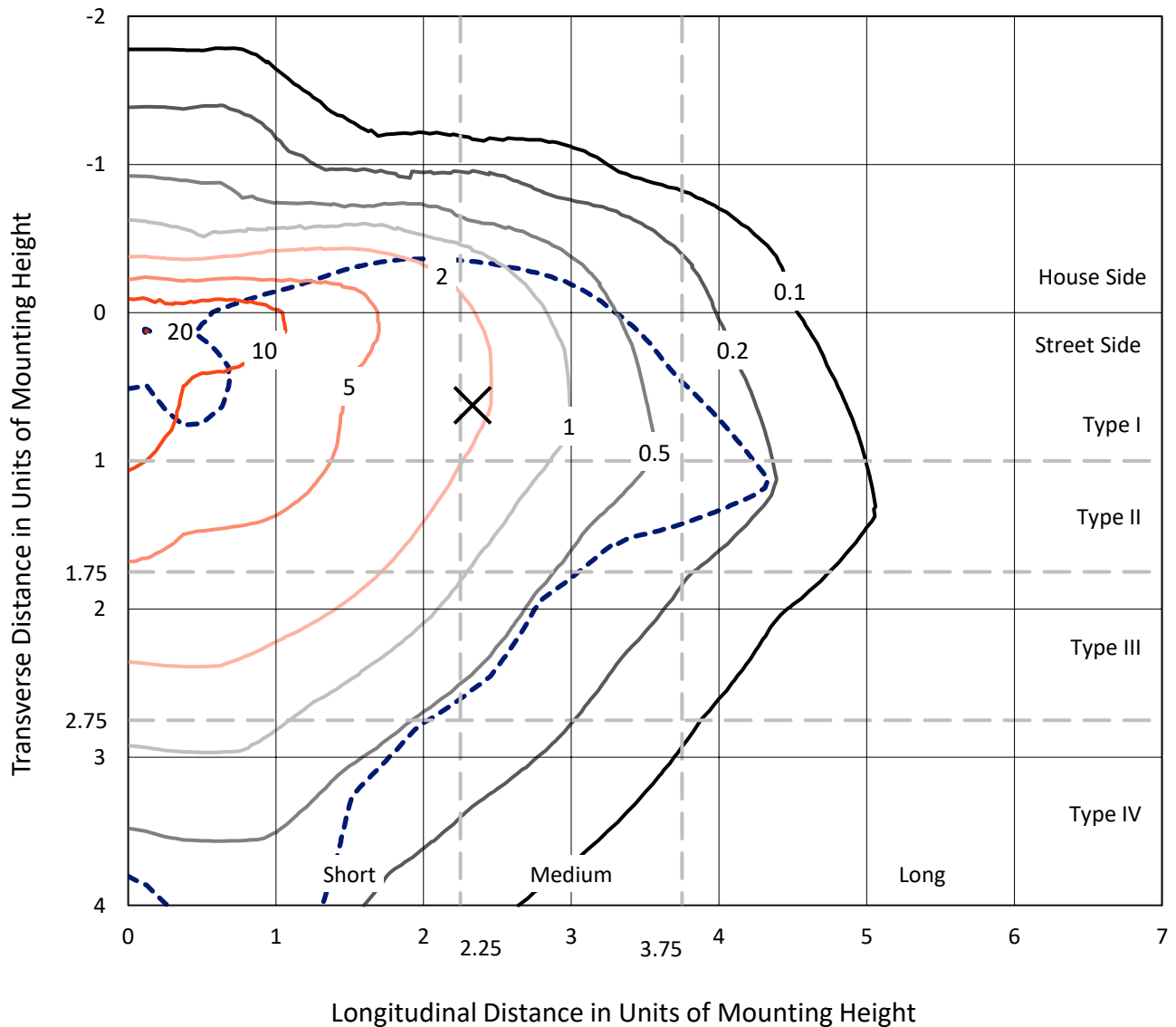
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

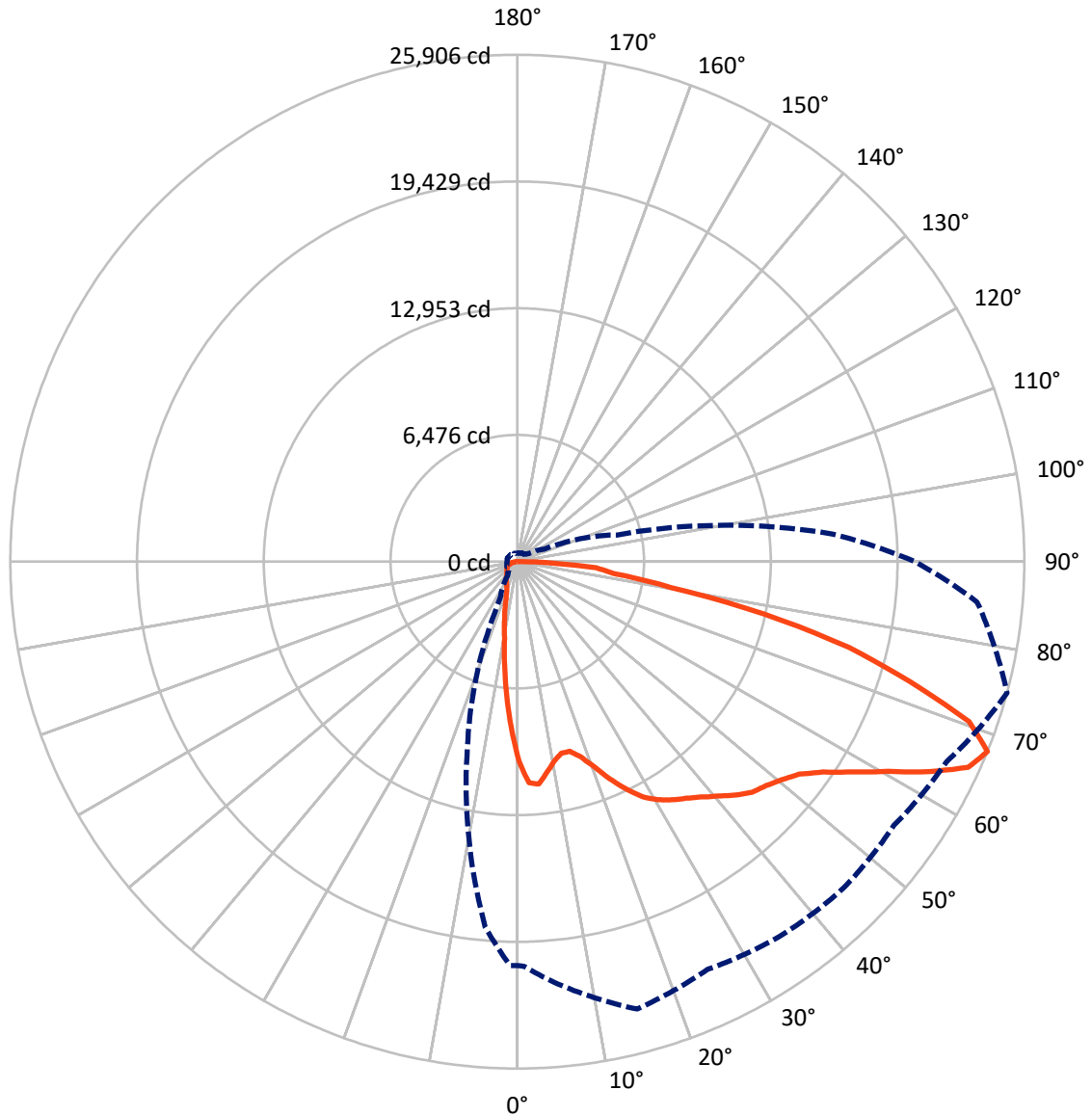
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 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	5524.8	0.0	5524.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	27162.2	0.0	27162.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	32687.0	0.0	32687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.6	2.4
10°-20°	1615.4	4.9
20°-30°	2324.6	7.1
30°-40°	3348.0	10.2
40°-50°	4703.0	14.4
50°-60°	6559.1	20.1
60°-70°	7798.3	23.9
70°-80°	4592.8	14.1
80°-90°	971.2	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°	32687.0	100.0
0°-180°	32687.0	100.0

Coefficient of Utilization



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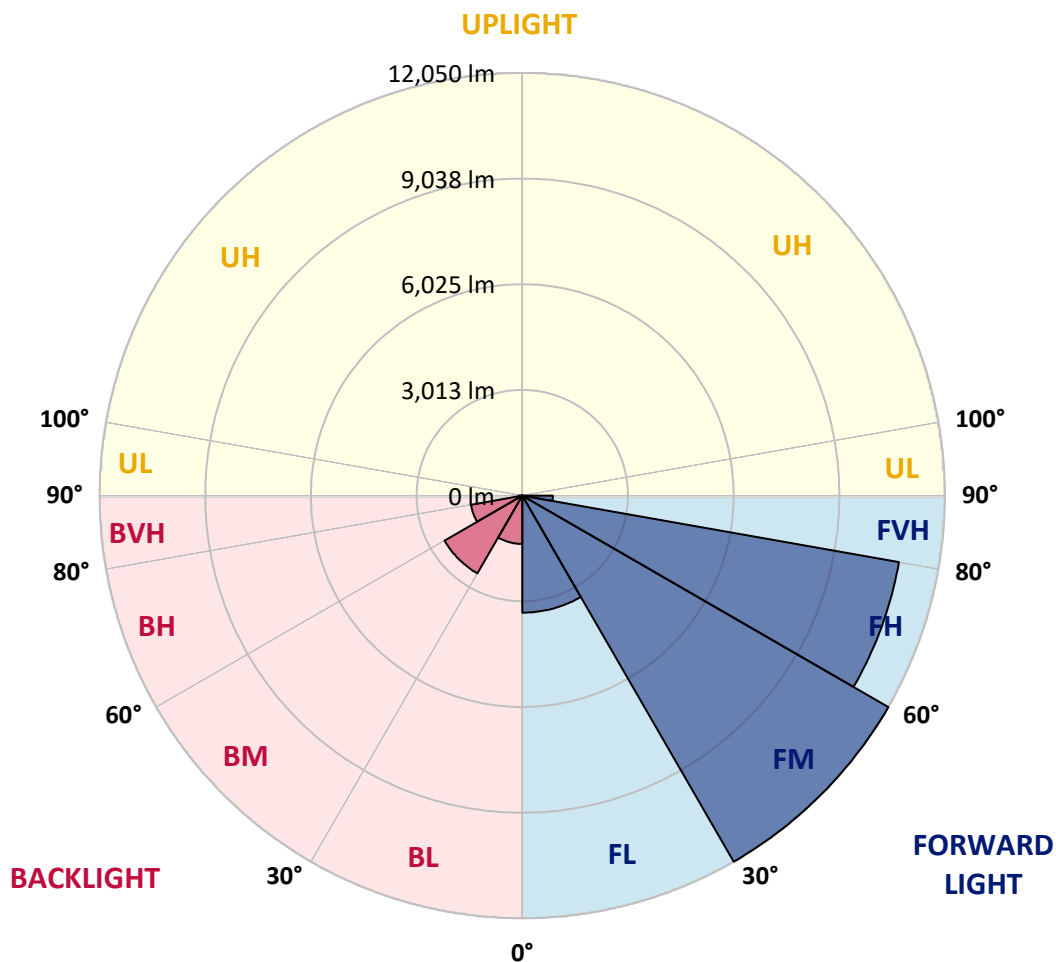
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3336.5	10.2			
FM	(30°-60°)	12050.5	36.9			
FH	(60°-80°)	10904.5	33.4			G4/12000
FVH	(80°-90°)	870.7	2.7			G5
BL	(0°-30°)	1378.1	4.2	B3/2500		
BM	(30°-60°)	2559.7	7.8	B3/5000		
BH	(60°-80°)	1486.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	100.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2
2.5°	11010.8	11025.5	11119.8	11394.4	11583.0	11652.2	11700.4	11610.3	11522.3	11308.5	10985.7
5°	10977.3	11063.2	11308.5	11924.7	12411.0	12620.6	12683.5	12413.1	11966.6	11417.4	10757.2
7.5°	10335.9	10451.1	10828.4	11861.8	12719.1	13209.6	13144.6	12656.2	11851.3	10872.5	9950.2
10°	9575.0	9702.8	10157.7	11407.0	12511.6	13186.6	13186.6	12591.3	11522.3	10358.9	9296.2
12.5°	8971.3	9105.5	9625.3	10939.5	12079.8	12719.1	12826.0	12314.6	11285.4	10034.0	8866.5
15°	8772.2	8902.1	9461.8	10656.6	11622.9	12012.7	12048.4	11880.7	11170.1	10057.1	8847.6
17.5°	9019.5	9187.2	9753.1	10740.4	11203.6	11226.7	11254.0	11386.0	11182.7	10478.4	9229.1
20°	9734.3	9914.5	10505.6	11010.8	10836.8	10597.9	10612.5	10952.1	11331.5	11174.3	10140.9
22.5°	10765.6	10922.8	11528.5	11486.6	10681.7	10189.1	10086.4	10560.1	11551.6	12042.1	11111.4
25°	11878.6	12063.0	12759.0	12193.0	10725.7	9946.0	9881.0	10329.6	11780.1	12853.3	12232.8
27.5°	13153.0	13333.3	13882.5	12905.7	10956.3	9927.1	9849.6	10308.6	11985.5	13603.7	13303.9
30°	14100.5	14266.0	14639.2	13505.2	11239.3	10052.9	9956.5	10474.2	12161.6	14117.2	14347.8
32.5°	14844.6	15016.5	15219.8	13878.3	11612.4	10281.4	10103.2	10776.0	12392.1	14509.2	15121.3
35°	15620.1	15823.4	15808.8	14209.5	11960.3	10545.5	10371.5	11212.0	12754.8	14850.9	16102.2
37.5°	16603.2	16684.9	16580.1	14507.1	12377.5	11021.3	10924.9	11859.7	13270.4	15263.8	17248.8
40°	17600.9	17764.4	17225.7	14867.6	12884.7	11916.3	11905.8	12817.6	13882.5	15748.0	18359.7
42.5°	18456.1	18594.5	17829.4	15182.0	13498.9	13008.4	13088.0	14102.6	14685.3	16309.7	19252.7
45°	19099.7	19223.3	18387.0	15486.0	14308.0	14270.2	14739.8	15479.7	15697.7	16814.9	19776.7
47.5°	19646.7	19766.2	18774.8	15947.1	15307.8	15777.3	16594.8	16915.5	16563.4	17104.2	20363.6
50°	20107.9	20143.5	19041.0	16496.3	16548.7	17624.0	18416.3	18623.8	17418.6	17519.2	20872.9
52.5°	20587.9	20541.8	19500.0	17188.0	17890.2	19376.3	19952.8	20168.7	18238.2	18030.6	21615.0
55°	21663.2	21707.2	20529.2	18060.0	19246.4	21097.2	21856.0	21648.5	19145.8	18971.8	22558.2
57.5°	22962.8	22925.0	21977.6	19424.5	20627.7	22698.7	23264.6	22931.3	20357.3	20265.1	23514.0
60°	23467.9	23518.2	23189.1	20891.8	21990.2	24100.9	24679.5	24161.7	21809.9	21768.0	24235.1
62.5°	22960.7	23243.6	23465.8	22197.7	23151.4	25132.2	25706.6	25115.5	23325.4	23629.3	24740.3
65°	21950.3	22011.1	22767.8	23304.4	23711.1	25302.0	25601.7	25287.3	24591.4	25325.1	24717.2
67.5°	20638.2	20690.6	21577.2	23667.0	22990.0	23373.6	23583.2	23491.0	24199.5	25905.7	23579.0
70°	19388.9	19347.0	20283.9	22742.7	20013.5	19430.8	19604.8	19315.5	20881.3	24486.6	21346.7
72.5°	16957.4	17108.4	18114.5	20172.9	15846.5	14899.1	15278.5	14530.2	16060.3	20971.5	17326.4
75°	13283.0	13318.6	14997.6	16930.2	11954.1	10459.5	10973.1	10660.8	12302.0	17494.0	11964.5
77.5°	9197.7	9118.0	10922.8	12930.8	8524.8	7657.0	7665.4	7516.6	8589.8	12880.5	8128.7
80°	5841.8	5720.3	6837.5	7988.2	5858.6	6267.3	6061.9	6055.6	5592.4	7946.3	4915.4
82.5°	3156.7	3290.9	4320.1	5007.6	4202.7	4844.1	4439.5	4309.6	3838.0	4974.0	3144.1
85°	1437.9	1563.7	2303.6	3406.2	3192.4	3228.0	2156.9	2544.7	3175.6	4039.2	1679.0
87.5°	140.4	180.3	475.8	1607.7	1090.0	859.4	320.7	618.3	798.6	1435.8	134.2
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°	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2
2.5°	10853.6	10744.6	10373.6	10067.6	9742.7	9495.3	9172.5	8956.6	8807.8	8583.5	8556.3
5°	10354.7	10088.5	9442.9	8784.7	8216.7	7789.1	7355.2	6957.0	6722.2	6648.8	6554.5
7.5°	9514.2	9065.6	8235.6	7481.0	6829.1	6191.9	5701.4	5353.4	5120.8	4984.5	4821.0
10°	8822.5	8302.6	7292.3	6367.9	5831.3	5435.2	5003.4	4630.3	4343.1	4097.9	3963.7
12.5°	8357.1	7770.2	6634.2	5883.7	5468.7	5047.4	4542.2	4123.0	3699.6	3420.8	3301.4
15°	8216.7	7596.3	6430.8	5642.7	5047.4	4496.1	3930.2	3383.1	2963.9	2699.8	2611.7
17.5°	8560.5	7810.1	6428.7	5322.0	4552.7	3894.6	3169.3	2655.8	2226.1	2029.0	1966.1
20°	9201.9	8220.9	6447.6	5005.5	4016.1	3089.6	2305.7	1884.4	1679.0	1595.1	1563.7
22.5°	10096.9	8847.6	6504.2	4693.2	3429.2	2372.8	1727.2	1513.4	1440.0	1425.3	1419.1
25°	11199.5	9623.2	6694.9	4412.3	2934.5	1811.0	1444.2	1347.8	1305.9	1291.2	1289.1
27.5°	12214.0	10625.1	6925.5	4171.2	2456.6	1561.6	1305.9	1224.1	1182.2	1180.1	1184.3
30°	13130.0	11463.6	7118.4	3900.8	2094.0	1387.6	1215.7	1134.0	1094.2	1092.1	1104.6
32.5°	13922.3	12153.2	7260.9	3634.6	1892.8	1280.7	1134.0	1046.0	1012.4	1006.1	1012.4
35°	14769.1	12840.7	7195.9	3427.1	1777.5	1192.7	1073.2	987.3	947.4	928.6	928.6
37.5°	15735.4	13549.2	7084.8	3255.2	1725.1	1119.3	1020.8	937.0	897.1	878.3	876.2
40°	16789.7	14257.7	6931.8	3102.2	1672.7	1075.3	985.2	897.1	848.9	830.1	825.9
42.5°	17720.4	14863.4	6806.0	3001.6	1586.7	1083.7	953.7	867.8	807.0	781.8	779.7
45°	18529.5	15473.4	6783.0	2942.9	1515.5	1071.1	945.3	844.7	773.5	746.2	742.0
47.5°	19162.5	16108.5	6915.0	2909.4	1437.9	1004.0	999.8	830.1	744.1	714.8	710.6
50°	19933.9	17009.8	7216.9	2840.2	1366.7	941.1	1056.4	828.0	721.1	683.3	672.8
52.5°	20961.0	18183.7	7625.6	2716.5	1263.9	882.5	1008.2	828.0	693.8	656.1	643.5
55°	22514.2	19680.3	8026.0	2542.6	1119.3	804.9	909.7	802.8	654.0	620.4	612.1
57.5°	23543.4	20774.4	8281.7	2301.5	939.1	748.3	783.9	763.0	614.2	578.5	578.5
60°	23595.8	21067.9	8160.1	1997.6	825.9	695.9	681.2	769.3	578.5	540.8	536.6
62.5°	22992.1	20348.9	7527.1	1725.1	765.1	639.3	616.3	674.9	542.9	505.2	498.9
65°	22048.9	18514.8	6428.7	1595.1	731.5	589.0	555.5	553.4	505.2	469.5	461.1
67.5°	20315.4	16179.8	5282.2	1519.7	714.8	532.4	501.0	490.5	461.1	431.8	427.6
70°	17760.2	13551.3	4236.2	1488.2	706.4	473.7	448.6	436.0	410.8	387.8	385.7
72.5°	13817.5	10991.9	3496.3	1467.3	702.2	419.2	392.0	375.2	360.5	339.6	339.6
75°	9925.0	8086.7	2668.3	1322.6	649.8	360.5	331.2	320.7	299.7	283.0	287.2
77.5°	6256.9	5445.7	1756.5	972.6	503.1	289.3	264.1	257.8	241.1	218.0	232.7
80°	4225.7	3829.6	1025.0	612.1	316.5	211.7	203.3	201.2	182.4	157.2	159.3
82.5°	2875.8	2821.3	532.4	348.0	182.4	123.7	119.5	123.7	102.7	83.8	83.8
85°	1123.5	1534.3	251.5	136.2	58.7	18.9	27.2	29.3	16.8	8.4	10.5
87.5°	21.0	157.2	6.3	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°	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2
2.5°	8514.4	8495.5	8526.9	8392.8	8420.0	8470.3	8495.5	8510.2	8717.7	8669.5	8801.5
5°	6642.5	6623.7	6745.2	6762.0	6824.9	6812.3	6873.1	6887.8	6963.2	6990.5	7174.9
7.5°	4831.5	4913.3	5051.6	5122.9	5229.8	5263.3	5231.9	5309.4	5152.2	5265.4	5298.9
10°	3882.0	3783.5	3724.8	3888.3	3909.2	4064.3	4001.5	3951.1	4043.4	4047.6	4135.6
12.5°	3232.2	3020.5	2880.0	2926.2	2976.5	3043.5	3054.0	3154.6	3221.7	3284.6	3337.0
15°	2534.2	2460.8	2333.0	2270.1	2341.3	2368.6	2433.6	2517.4	2588.7	2607.5	2678.8
17.5°	1945.2	1957.8	1936.8	1899.1	1943.1	1964.0	1968.2	1970.3	1989.2	1976.6	2081.4
20°	1565.8	1609.8	1662.2	1670.6	1685.3	1695.7	1676.9	1605.6	1607.7	1651.7	1685.3
22.5°	1417.0	1425.3	1484.0	1502.9	1549.0	1530.2	1475.7	1442.1	1437.9	1448.4	1465.2
25°	1299.6	1312.2	1354.1	1383.4	1419.1	1385.5	1345.7	1314.3	1310.1	1320.5	1337.3
27.5°	1194.8	1213.6	1251.4	1280.7	1314.3	1282.8	1245.1	1217.8	1215.7	1213.6	1224.1
30°	1110.9	1131.9	1159.1	1192.7	1215.7	1188.5	1152.9	1138.2	1136.1	1131.9	1136.1
32.5°	1027.1	1060.6	1087.9	1104.6	1127.7	1106.7	1079.5	1071.1	1056.4	1043.9	1037.6
35°	932.8	968.4	1010.3	1031.3	1054.3	1033.4	1014.5	978.9	953.7	951.6	955.8
37.5°	878.3	892.9	926.5	962.1	985.2	974.7	939.1	903.4	897.1	897.1	901.3
40°	830.1	836.3	851.0	897.1	939.1	907.6	863.6	853.1	853.1	851.0	853.1
42.5°	781.8	788.1	788.1	823.8	890.8	840.5	807.0	807.0	807.0	809.1	815.4
45°	737.8	739.9	737.8	763.0	825.9	783.9	760.9	767.2	771.4	775.6	779.7
47.5°	700.1	702.2	700.1	721.1	752.5	735.7	723.2	731.5	739.9	746.2	750.4
50°	666.6	664.5	668.7	681.2	695.9	700.1	691.7	704.3	708.5	716.9	727.3
52.5°	637.2	635.1	639.3	645.6	666.6	666.6	666.6	677.0	685.4	693.8	708.5
55°	603.7	605.8	612.1	620.4	647.7	643.5	645.6	654.0	662.4	674.9	683.3
57.5°	572.2	576.4	584.8	597.4	624.6	622.5	624.6	628.8	639.3	645.6	654.0
60°	536.6	545.0	555.5	563.9	591.1	589.0	599.5	607.9	614.2	614.2	618.3
62.5°	501.0	513.5	524.0	530.3	559.7	561.8	576.4	582.7	586.9	582.7	589.0
65°	465.3	484.2	488.4	496.8	526.1	528.2	545.0	559.7	555.5	551.3	561.8
67.5°	429.7	452.8	450.7	461.1	490.5	494.7	509.4	534.5	526.1	521.9	530.3
70°	389.9	406.6	408.7	415.0	454.9	448.6	471.6	494.7	488.4	490.5	490.5
72.5°	345.9	360.5	360.5	373.1	415.0	404.5	423.4	448.6	448.6	446.5	446.5
75°	293.5	301.8	310.2	329.1	373.1	360.5	373.1	396.2	400.4	396.2	396.2
77.5°	236.9	249.4	253.6	278.8	310.2	308.1	320.7	331.2	339.6	335.4	335.4
80°	167.7	180.3	197.0	224.3	243.1	249.4	255.7	264.1	268.3	268.3	272.5
82.5°	94.3	113.2	127.9	155.1	163.5	194.9	192.8	199.1	192.8	169.8	188.6
85°	21.0	39.8	56.6	71.3	81.7	113.2	119.5	134.2	111.1	102.7	102.7
87.5°	0.0	0.0	0.0	0.0	0.0	16.8	33.5	46.1	39.8	33.5	33.5
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°	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2	10212.2
2.5°	8912.6	9095.0	9315.1	9694.5	9960.7	10247.8	10537.1	10845.2	10927.0	11010.8
5°	7225.3	7583.7	7778.6	8288.0	8822.5	9501.6	10057.1	10664.9	10918.6	10977.3
7.5°	5472.9	5716.1	6227.5	6743.1	7405.5	8118.2	8969.2	9916.6	10212.2	10335.9
10°	4338.9	4670.1	5118.7	5672.0	6252.7	7019.8	7979.8	9086.6	9505.8	9575.0
12.5°	3693.3	4062.2	4550.6	5135.4	5684.6	6263.1	7231.5	8373.9	8822.5	8971.3
15°	2953.4	3399.9	3963.7	4580.0	5177.4	5810.4	6791.4	8080.5	8598.2	8772.2
17.5°	2320.4	2680.9	3290.9	3959.5	4668.0	5468.7	6699.1	8220.9	8858.1	9019.5
20°	1775.4	2033.2	2546.8	3253.1	4083.2	5131.2	6722.2	8751.2	9514.2	9734.3
22.5°	1534.3	1666.4	1978.7	2651.6	3580.1	4837.8	6816.5	9478.6	10398.7	10765.6
25°	1389.7	1458.9	1635.0	2075.1	3100.1	4552.7	7032.4	10457.4	11635.4	11878.6
27.5°	1266.0	1316.3	1425.3	1741.9	2664.1	4288.6	7283.9	11543.2	12790.4	13153.0
30°	1148.7	1215.7	1318.4	1546.9	2385.4	4047.6	7600.5	12423.6	13763.0	14100.5
32.5°	1058.5	1125.6	1219.9	1410.7	2148.5	3793.9	7789.1	13197.0	14557.4	14844.6
35°	985.2	1041.8	1140.3	1301.7	1968.2	3601.1	7751.4	13811.2	15326.7	15620.1
37.5°	932.8	981.0	1079.5	1199.0	1832.0	3399.9	7732.5	14622.4	16263.6	16603.2
40°	884.6	934.9	1025.0	1131.9	1695.7	3163.0	7743.0	15427.3	17261.4	17600.9
42.5°	846.8	903.4	976.8	1113.0	1555.3	2972.3	7743.0	16127.4	18129.2	18456.1
45°	815.4	876.2	947.4	1110.9	1444.2	2827.6	7690.6	16729.0	18820.9	19099.7
47.5°	788.1	855.2	957.9	1073.2	1417.0	2722.8	7644.5	17211.1	19384.7	19646.7
50°	769.3	848.9	1018.7	1029.2	1425.3	2691.4	7866.7	17818.9	19881.5	20107.9
52.5°	754.6	851.0	1016.6	964.2	1410.7	2712.4	8329.9	18768.5	20571.1	20587.9
55°	725.3	848.9	964.2	890.8	1349.9	2748.0	8925.2	20147.7	21650.6	21663.2
57.5°	695.9	825.9	895.0	828.0	1226.2	2748.0	9642.1	21453.6	22952.3	22962.8
60°	666.6	859.4	786.0	773.5	1064.8	2697.7	10398.7	22027.9	23361.0	23467.9
62.5°	637.2	865.7	702.2	725.3	947.4	2576.1	10962.6	21392.8	22807.6	22960.7
65°	603.7	698.0	647.7	674.9	886.6	2372.8	10784.4	20229.4	21768.0	21950.3
67.5°	563.9	591.1	589.0	622.5	865.7	2073.0	9845.4	18758.0	20648.7	20638.2
70°	515.6	530.3	536.6	572.2	825.9	1840.4	8204.1	16848.4	19154.1	19388.9
72.5°	465.3	477.9	484.2	515.6	786.0	1708.3	6367.9	14217.8	16590.6	16957.4
75°	410.8	419.2	427.6	454.9	744.1	1513.4	4536.0	10853.6	12706.5	13283.0
77.5°	354.2	354.2	364.7	392.0	626.7	1249.3	3043.5	7613.0	8608.7	9197.7
80°	287.2	289.3	285.1	314.4	461.1	855.2	1729.3	5085.1	5728.6	5841.8
82.5°	220.1	213.8	215.9	230.6	343.8	582.7	922.3	3158.8	3219.6	3156.7
85°	138.3	138.3	134.2	150.9	220.1	303.9	503.1	1934.7	1511.3	1437.9
87.5°	56.6	46.1	52.4	60.8	104.8	123.7	197.0	398.3	153.0	140.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)