

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: P456264

Luminaire Tested: **GALN-SA7C-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456264
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-SA7C-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA 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: 38441 lumens
Efficiency: N/A
Efficacy: 102.0 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

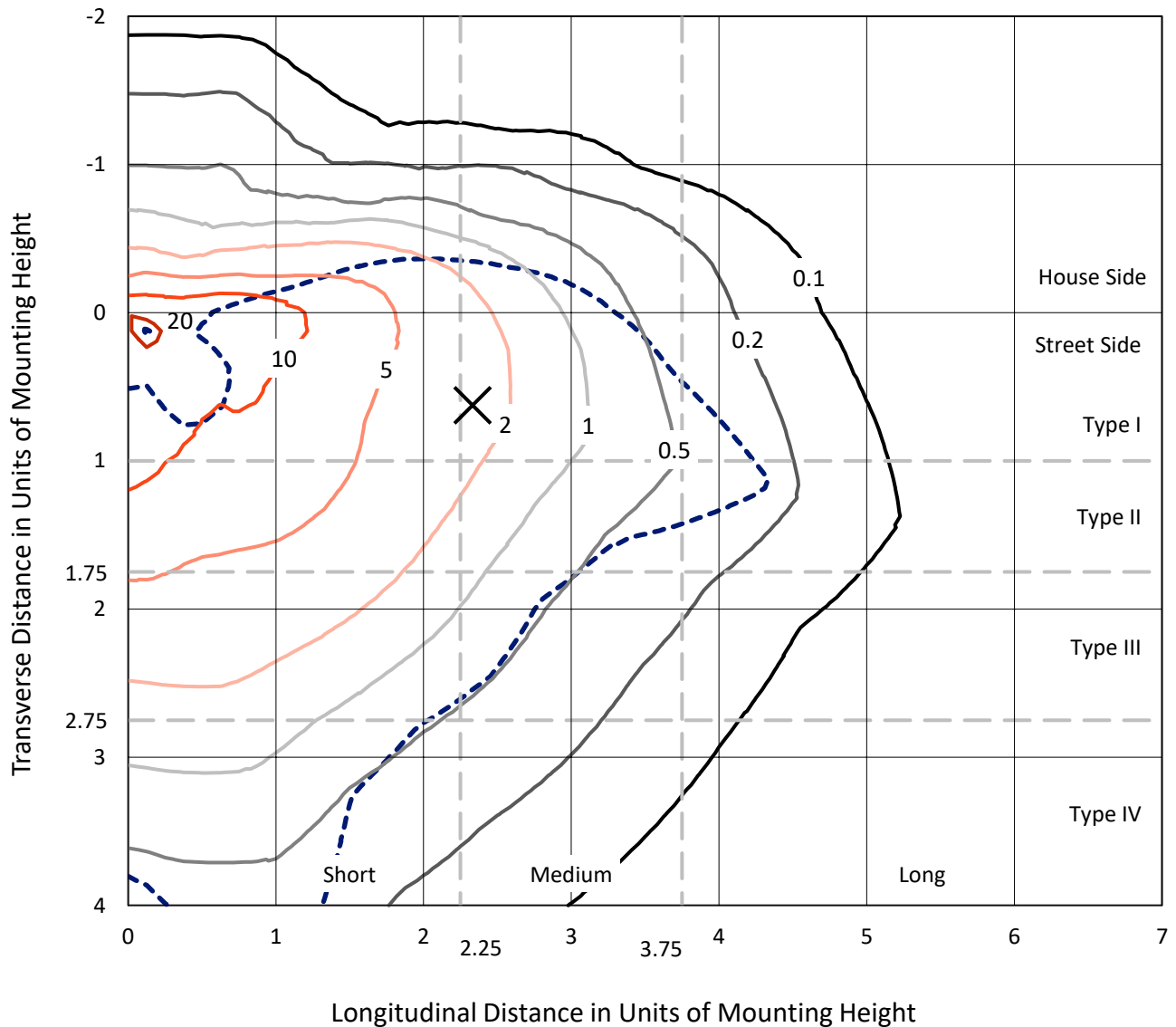
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

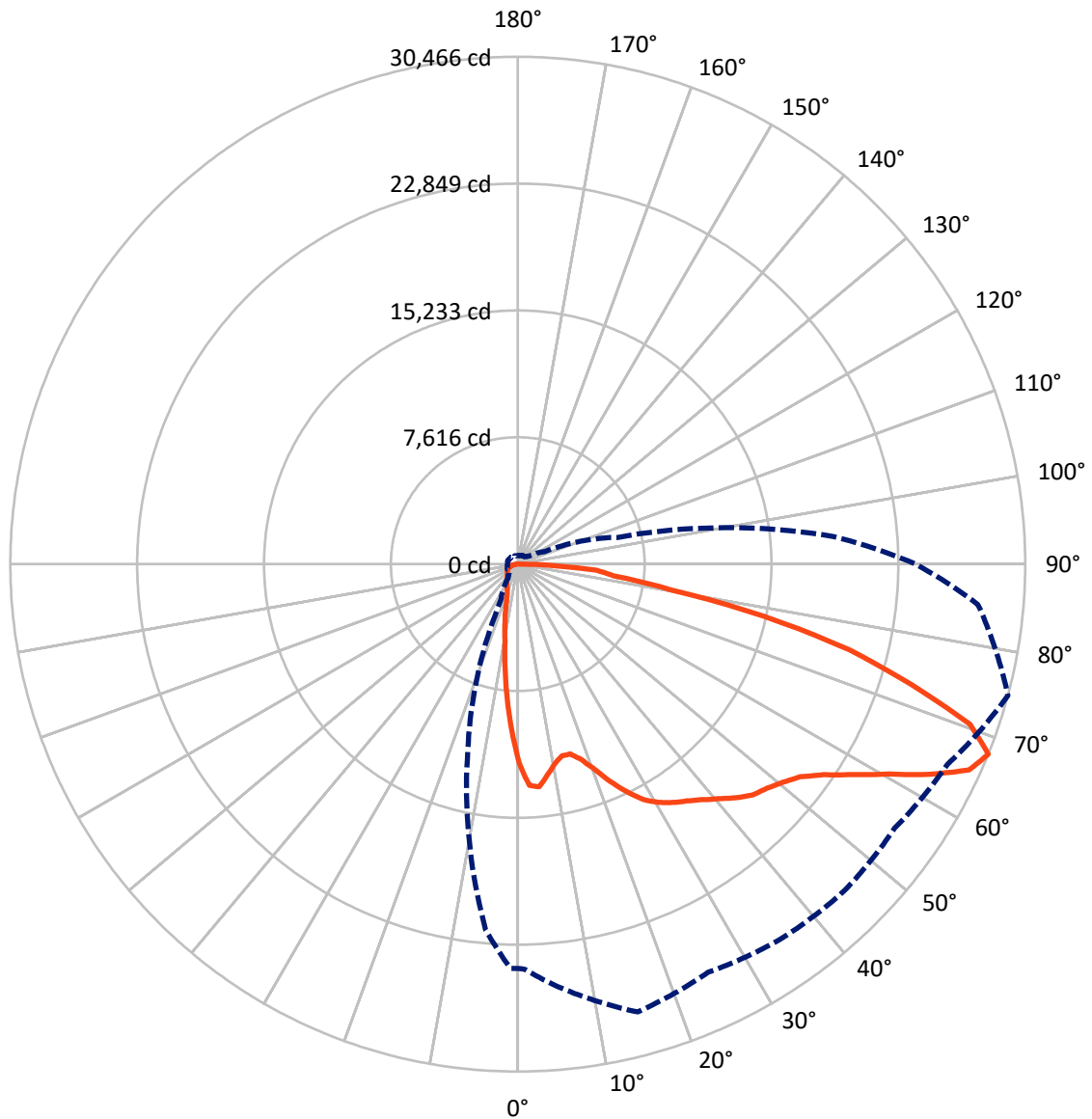
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 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	6497.3	0.0	6497.3
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	31943.7	0.0	31943.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	38441.0	0.0	38441.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	910.9	2.4
10°-20°	1899.7	4.9
20°-30°	2733.8	7.1
30°-40°	3937.4	10.2
40°-50°	5530.9	14.4
50°-60°	7713.7	20.1
60°-70°	9171.1	23.9
70°-80°	5401.3	14.1
80°-90°	1142.2	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°	38441.0	100.0
0°-180°	38441.0	100.0

Coefficient of Utilization



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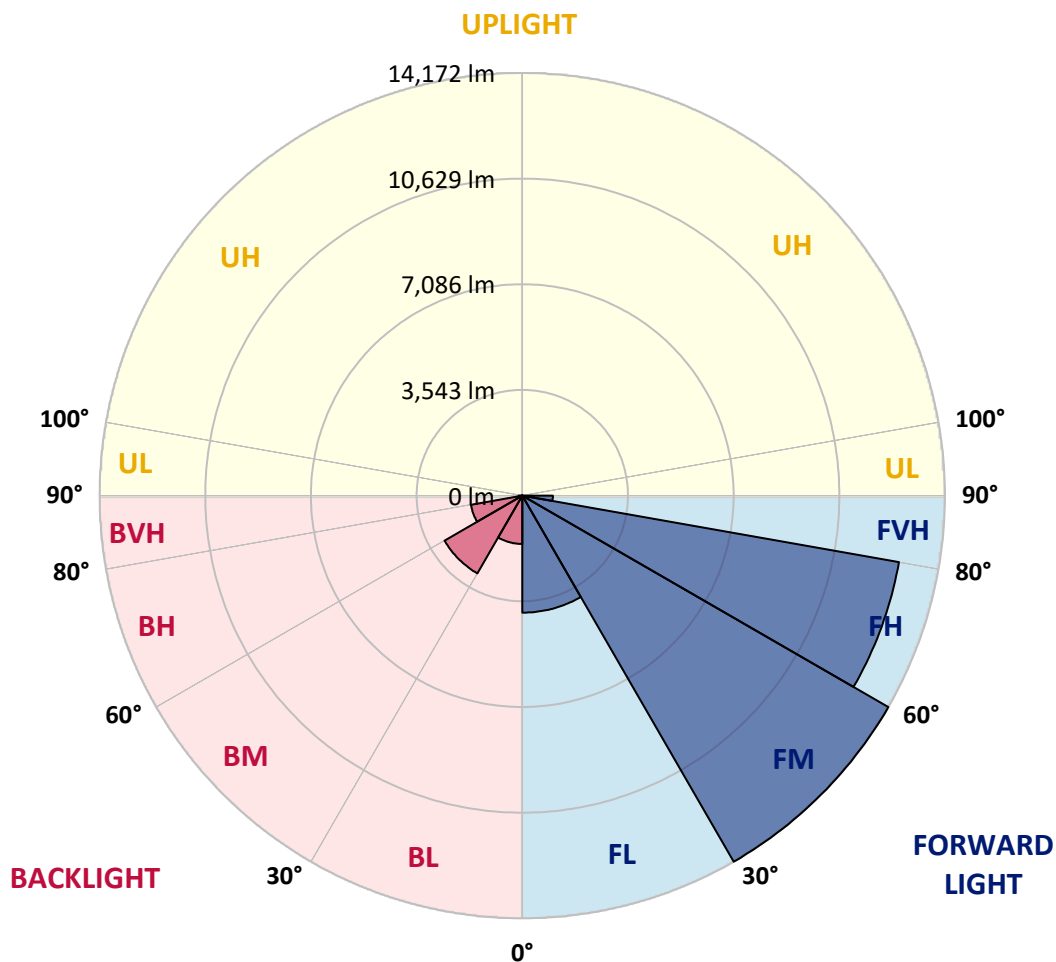
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3923.8	10.2			
FM	(30°-60°)	14171.8	36.9			
FH	(60°-80°)	12824.1	33.4			G5
FVH	(80°-90°)	1024.0	2.7			G5
BL	(0°-30°)	1620.6	4.2	B3/2500		
BM	(30°-60°)	3010.3	7.8	B3/5000		
BH	(60°-80°)	1748.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	118.1	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°	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9
2.5°	12949.1	12966.3	13077.3	13400.2	13622.0	13703.4	13760.1	13654.1	13550.6	13299.1	12919.5
5°	12909.6	13010.7	13299.1	14023.8	14595.7	14842.3	14916.2	14598.2	14073.2	13427.3	12650.8
7.5°	12155.3	12290.9	12734.6	13949.9	14958.1	15534.9	15458.5	14884.2	13937.6	12786.4	11701.7
10°	11260.5	11410.9	11945.8	13415.0	14714.1	15507.8	15507.8	14807.7	13550.6	12182.4	10932.6
12.5°	10550.5	10708.3	11319.7	12865.3	14206.3	14958.1	15083.8	14482.4	13272.0	11800.3	10427.3
15°	10316.4	10469.2	11127.4	12532.5	13668.9	14127.4	14169.3	13972.1	13136.4	11827.5	10405.1
17.5°	10607.2	10804.5	11470.0	12631.1	13175.9	13203.0	13235.0	13390.3	13151.2	12322.9	10853.8
20°	11447.8	11659.8	12355.0	12949.1	12744.5	12463.5	12480.7	12880.1	13326.2	13141.4	11926.1
22.5°	12660.7	12845.5	13557.9	13508.6	12562.1	11982.8	11862.0	12419.1	13585.1	14161.9	13067.4
25°	13969.6	14186.5	15005.0	14339.4	12613.8	11696.8	11620.4	12147.9	13853.8	15115.9	14386.2
27.5°	15468.4	15680.4	16326.2	15177.5	12885.0	11674.6	11583.4	12123.3	14095.3	15998.4	15645.9
30°	16582.6	16777.3	17216.1	15882.5	13217.8	11822.5	11709.1	12318.0	14302.4	16602.3	16873.5
32.5°	17457.7	17659.8	17899.0	16321.3	13656.6	12091.2	11881.7	12673.0	14573.6	17063.3	17783.1
35°	18369.8	18608.9	18591.6	16710.8	14065.8	12401.8	12197.2	13185.7	15000.0	17465.1	18936.8
37.5°	19525.9	19622.1	19498.8	17060.8	14556.3	12961.4	12848.0	13947.4	15606.4	17950.7	20285.2
40°	20699.3	20891.6	20258.0	17484.8	15152.9	14014.0	14001.7	15074.0	16326.2	18520.2	21591.7
42.5°	21705.0	21867.7	20968.0	17854.6	15875.1	15298.3	15392.0	16585.1	17270.4	19180.8	22641.8
45°	22461.8	22607.3	21623.7	18212.0	16826.6	16782.3	17334.5	18204.6	18461.0	19774.9	23258.0
47.5°	23105.2	23245.7	22079.7	18754.3	18002.5	18554.7	19516.1	19893.2	19479.1	20115.1	23948.3
50°	23647.5	23689.4	22392.8	19400.2	19461.8	20726.4	21658.2	21902.3	20484.8	20603.2	24547.3
52.5°	24212.0	24157.8	22932.7	20213.7	21039.5	22787.2	23465.1	23719.0	21448.7	21204.6	25419.9
55°	25476.6	25528.4	24143.0	21239.1	22634.4	24811.0	25703.4	25459.4	22516.1	22311.5	26529.2
57.5°	27005.0	26960.6	25846.4	22843.9	24258.9	26694.4	27359.9	26968.0	23940.9	23832.4	27653.3
60°	27599.1	27658.2	27271.2	24569.5	25861.2	28343.5	29023.9	28415.0	25649.2	25599.9	28501.3
62.5°	27002.5	27335.3	27596.6	26105.2	27226.8	29556.3	30231.8	29536.6	27431.4	27788.9	29095.4
65°	25814.3	25885.8	26775.7	27406.8	27885.0	29756.0	30108.5	29738.7	28920.3	29783.1	29068.2
67.5°	24271.2	24332.8	25375.6	27833.2	27037.0	27488.1	27734.6	27626.2	28459.4	30465.9	27729.7
70°	22802.0	22752.7	23854.6	26746.1	23536.6	22851.3	23055.9	22715.7	24557.1	28797.1	25104.4
72.5°	19942.5	20120.0	21303.2	23723.9	18636.0	17521.8	17968.0	17087.9	18887.5	24663.1	20376.4
75°	15621.2	15663.1	17637.7	19910.5	14058.4	12300.8	12904.7	12537.4	14467.6	20573.6	14070.7
77.5°	10816.8	10723.1	12845.5	15207.1	10025.5	9004.9	9014.8	8839.8	10101.9	15147.9	9559.6
80°	6870.2	6727.2	8041.1	9394.4	6889.9	7370.6	7129.0	7121.6	6576.8	9345.1	5780.6
82.5°	3712.4	3870.2	5080.5	5889.1	4942.5	5696.8	5221.0	5068.2	4513.6	5849.6	3697.6
85°	1691.0	1839.0	2709.1	4005.8	3754.3	3796.2	2536.6	2992.6	3734.6	4750.2	1974.5
87.5°	165.2	212.0	559.6	1890.7	1281.8	1010.7	377.2	727.2	939.2	1688.6	157.8
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°	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9
2.5°	12764.2	12636.0	12199.7	11839.8	11457.7	11166.8	10787.2	10533.3	10358.3	10094.5	10062.5
5°	12177.5	11864.4	11105.2	10331.2	9663.1	9160.2	8650.0	8181.6	7905.5	7819.2	7708.3
7.5°	11189.0	10661.5	9685.3	8797.9	8031.2	7281.9	6705.0	6295.8	6022.2	5862.0	5669.7
10°	10375.5	9764.2	8576.0	7488.9	6857.9	6392.0	5884.2	5445.4	5107.6	4819.2	4661.5
12.5°	9828.3	9138.1	7802.0	6919.5	6431.4	5935.9	5341.8	4848.8	4350.9	4023.0	3882.5
15°	9663.1	8933.5	7562.9	6636.0	5935.9	5287.6	4622.0	3978.6	3485.6	3175.0	3071.5
17.5°	10067.4	9184.9	7560.4	6258.8	5354.2	4580.1	3727.2	3123.3	2617.9	2386.2	2312.2
20°	10821.7	9668.1	7582.6	5886.6	4723.1	3633.5	2711.6	2216.1	1974.5	1875.9	1839.0
22.5°	11874.3	10405.1	7649.1	5519.3	4032.9	2790.5	2031.2	1779.8	1693.5	1676.3	1668.9
25°	13170.9	11317.2	7873.5	5189.0	3451.1	2129.8	1698.4	1585.0	1535.7	1518.5	1516.0
27.5°	14364.0	12495.5	8144.6	4905.5	2889.1	1836.5	1535.7	1439.6	1390.3	1387.8	1392.8
30°	15441.3	13481.5	8371.4	4587.5	2462.6	1631.9	1429.7	1333.6	1286.8	1284.3	1299.1
32.5°	16373.1	14292.5	8539.0	4274.5	2226.0	1506.2	1333.6	1230.1	1190.6	1183.2	1190.6
35°	17369.0	15101.1	8462.6	4030.4	2090.4	1402.6	1262.1	1161.1	1114.2	1092.0	1092.0
37.5°	18505.4	15934.3	8332.0	3828.3	2028.8	1316.4	1200.5	1101.9	1055.1	1032.9	1030.4
40°	19745.3	16767.5	8152.0	3648.3	1967.1	1264.6	1158.6	1055.1	998.4	976.2	971.2
42.5°	20839.8	17479.9	8004.1	3530.0	1866.1	1274.4	1121.6	1020.5	949.1	919.5	917.0
45°	21791.3	18197.2	7977.0	3461.0	1782.3	1259.7	1111.8	993.4	909.6	877.6	872.6
47.5°	22535.8	18944.2	8132.3	3421.5	1691.0	1180.8	1175.8	976.2	875.1	840.6	835.7
50°	23442.9	20004.1	8487.3	3340.2	1607.2	1106.8	1242.4	973.7	848.0	803.6	791.3
52.5°	24650.8	21384.6	8968.0	3194.7	1486.4	1037.8	1185.7	973.7	815.9	771.6	756.8
55°	26477.4	23144.7	9438.8	2990.1	1316.4	946.6	1069.8	944.1	769.1	729.7	719.8
57.5°	27687.8	24431.4	9739.5	2706.7	1104.4	880.0	921.9	897.3	722.3	680.4	680.4
60°	27749.4	24776.5	9596.6	2349.2	971.2	818.4	801.2	904.7	680.4	636.0	631.1
62.5°	27039.5	23931.0	8852.1	2028.8	899.8	751.8	724.7	793.8	638.5	594.1	586.7
65°	25930.2	21774.1	7560.4	1875.9	860.3	692.7	653.2	650.8	594.1	552.2	542.3
67.5°	23891.6	19028.0	6212.0	1787.2	840.6	626.1	589.2	576.8	542.3	507.8	502.9
70°	20886.6	15936.8	4981.9	1750.2	830.7	557.1	527.5	512.7	483.2	456.0	453.6
72.5°	16249.8	12926.9	4111.8	1725.6	825.8	493.0	461.0	441.2	424.0	399.3	399.3
75°	11672.2	9510.3	3138.0	1555.5	764.2	424.0	389.5	377.2	352.5	332.8	337.7
77.5°	7358.3	6404.3	2065.7	1143.8	591.6	340.2	310.6	303.2	283.5	256.4	273.6
80°	4969.6	4503.7	1205.4	719.8	372.2	249.0	239.1	236.6	214.5	184.9	187.3
82.5°	3382.1	3318.0	626.1	409.2	214.5	145.4	140.5	145.4	120.8	98.6	98.6
85°	1321.3	1804.4	295.8	160.2	69.0	22.2	32.0	34.5	19.7	9.9	12.3
87.5°	24.7	184.9	7.4	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°	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9
2.5°	10013.2	9991.0	10028.0	9870.2	9902.2	9961.4	9991.0	10008.2	10252.3	10195.6	10350.9
5°	7811.8	7789.7	7932.6	7952.4	8026.3	8011.5	8083.0	8100.3	8189.0	8221.0	8438.0
7.5°	5682.0	5778.2	5940.8	6024.7	6150.4	6189.8	6152.8	6244.1	6059.2	6192.3	6231.7
10°	4565.3	4449.5	4380.5	4572.7	4597.4	4779.8	4705.8	4646.7	4755.1	4760.1	4863.6
12.5°	3801.2	3552.2	3387.0	3441.3	3500.4	3579.3	3591.6	3709.9	3788.8	3862.8	3924.4
15°	2980.3	2894.0	2743.6	2669.7	2753.5	2785.5	2862.0	2960.6	3044.4	3066.6	3150.4
17.5°	2287.6	2302.4	2277.7	2233.4	2285.1	2309.8	2314.7	2317.2	2339.4	2324.6	2447.8
20°	1841.4	1893.2	1954.8	1964.7	1981.9	1994.3	1972.1	1888.3	1890.7	1942.5	1981.9
22.5°	1666.4	1676.3	1745.3	1767.5	1821.7	1799.5	1735.4	1696.0	1691.0	1703.4	1723.1
25°	1528.4	1543.1	1592.4	1627.0	1668.9	1629.4	1582.6	1545.6	1540.7	1553.0	1572.7
27.5°	1405.1	1427.3	1471.7	1506.2	1545.6	1508.6	1464.3	1432.2	1429.7	1427.3	1439.6
30°	1306.5	1331.1	1363.2	1402.6	1429.7	1397.7	1355.8	1338.5	1336.1	1331.1	1336.1
32.5°	1207.9	1247.3	1279.4	1299.1	1326.2	1301.6	1269.5	1259.7	1242.4	1227.6	1220.2
35°	1097.0	1138.9	1188.2	1212.8	1239.9	1215.3	1193.1	1151.2	1121.6	1119.1	1124.1
37.5°	1032.9	1050.1	1089.6	1131.5	1158.6	1146.3	1104.4	1062.5	1055.1	1055.1	1060.0
40°	976.2	983.6	1000.8	1055.1	1104.4	1067.4	1015.6	1003.3	1003.3	1000.8	1003.3
42.5°	919.5	926.9	926.9	968.8	1047.7	988.5	949.1	949.1	949.1	951.5	958.9
45°	867.7	870.2	867.7	897.3	971.2	921.9	894.8	902.2	907.2	912.1	917.0
47.5°	823.3	825.8	823.3	848.0	885.0	865.2	850.5	860.3	870.2	877.6	882.5
50°	783.9	781.4	786.4	801.2	818.4	823.3	813.5	828.3	833.2	843.1	855.4
52.5°	749.4	746.9	751.8	759.2	783.9	783.9	783.9	796.2	806.1	815.9	833.2
55°	709.9	712.4	719.8	729.7	761.7	756.8	759.2	769.1	779.0	793.8	803.6
57.5°	673.0	677.9	687.8	702.5	734.6	732.1	734.6	739.5	751.8	759.2	769.1
60°	631.1	640.9	653.2	663.1	695.2	692.7	705.0	714.9	722.3	722.3	727.2
62.5°	589.2	603.9	616.3	623.7	658.2	660.6	677.9	685.3	690.2	685.3	692.7
65°	547.2	569.4	574.4	584.2	618.7	621.2	640.9	658.2	653.2	648.3	660.6
67.5°	505.3	532.5	530.0	542.3	576.8	581.8	599.0	628.6	618.7	613.8	623.7
70°	458.5	478.2	480.7	488.1	534.9	527.5	554.6	581.8	574.4	576.8	576.8
72.5°	406.7	424.0	424.0	438.8	488.1	475.8	497.9	527.5	527.5	525.1	525.1
75°	345.1	355.0	364.8	387.0	438.8	424.0	438.8	465.9	470.8	465.9	465.9
77.5°	278.6	293.3	298.3	327.9	364.8	362.4	377.2	389.5	399.3	394.4	394.4
80°	197.2	212.0	231.7	263.8	285.9	293.3	300.7	310.6	315.5	315.5	320.5
82.5°	110.9	133.1	150.4	182.4	192.3	229.3	226.8	234.2	226.8	199.7	221.9
85°	24.7	46.8	66.6	83.8	96.1	133.1	140.5	157.8	130.6	120.8	120.8
87.5°	0.0	0.0	0.0	0.0	0.0	19.7	39.4	54.2	46.8	39.4	39.4
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°	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9	12009.9
2.5°	10481.5	10696.0	10954.8	11401.0	11714.1	12051.8	12392.0	12754.3	12850.5	12949.1
5°	8497.1	8918.7	9147.9	9746.9	10375.5	11174.2	11827.5	12542.3	12840.6	12909.6
7.5°	6436.3	6722.3	7323.8	7930.2	8709.1	9547.3	10548.1	11662.3	12009.9	12155.3
10°	5102.7	5492.2	6019.7	6670.5	7353.3	8255.6	9384.6	10686.1	11179.1	11260.5
12.5°	4343.5	4777.3	5351.7	6039.5	6685.3	7365.7	8504.5	9848.0	10375.5	10550.5
15°	3473.3	3998.4	4661.5	5386.2	6088.8	6833.2	7986.9	9502.9	10111.8	10316.4
17.5°	2728.8	3152.8	3870.2	4656.5	5489.7	6431.4	7878.4	9668.1	10417.4	10607.2
20°	2087.9	2391.1	2995.1	3825.8	4802.0	6034.5	7905.5	10291.7	11189.0	11447.8
22.5°	1804.4	1959.7	2327.0	3118.3	4210.4	5689.4	8016.4	11147.1	12229.3	12660.7
25°	1634.3	1715.7	1922.8	2440.4	3645.9	5354.2	8270.3	12298.3	13683.7	13969.6
27.5°	1488.9	1548.1	1676.3	2048.5	3133.1	5043.6	8566.2	13575.2	15041.9	15468.4
30°	1350.9	1429.7	1550.5	1819.2	2805.3	4760.1	8938.4	14610.5	16185.7	16582.6
32.5°	1244.9	1323.7	1434.7	1659.0	2526.7	4461.8	9160.2	15520.2	17120.0	17457.7
35°	1158.6	1225.1	1341.0	1530.8	2314.7	4235.0	9115.9	16242.4	18024.7	18369.8
37.5°	1097.0	1153.7	1269.5	1410.0	2154.5	3998.4	9093.7	17196.4	19126.6	19525.9
40°	1040.3	1099.4	1205.4	1331.1	1994.3	3719.8	9106.0	18143.0	20299.9	20699.3
42.5°	995.9	1062.5	1148.7	1309.0	1829.1	3495.5	9106.0	18966.3	21320.5	21705.0
45°	958.9	1030.4	1114.2	1306.5	1698.4	3325.4	9044.4	19673.8	22134.0	22461.8
47.5°	926.9	1005.8	1126.5	1262.1	1666.4	3202.1	8990.2	20240.8	22797.1	23105.2
50°	904.7	998.4	1198.0	1210.4	1676.3	3165.2	9251.5	20955.7	23381.3	23647.5
52.5°	887.4	1000.8	1195.6	1133.9	1659.0	3189.8	9796.2	22072.3	24192.3	24212.0
55°	852.9	998.4	1133.9	1047.7	1587.5	3231.7	10496.3	23694.4	25461.8	25476.6
57.5°	818.4	971.2	1052.6	973.7	1442.1	3231.7	11339.4	25230.1	26992.6	27005.0
60°	783.9	1010.7	924.4	909.6	1252.3	3172.6	12229.3	25905.5	27473.3	27599.1
62.5°	749.4	1018.1	825.8	852.9	1114.2	3029.6	12892.4	25158.6	26822.6	27002.5
65°	709.9	820.9	761.7	793.8	1042.7	2790.5	12682.8	23790.5	25599.9	25814.3
67.5°	663.1	695.2	692.7	732.1	1018.1	2438.0	11578.5	22060.0	24283.5	24271.2
70°	606.4	623.7	631.1	673.0	971.2	2164.3	9648.3	19814.3	22525.9	22802.0
72.5°	547.2	562.0	569.4	606.4	924.4	2009.0	7488.9	16720.6	19511.1	19942.5
75°	483.2	493.0	502.9	534.9	875.1	1779.8	5334.4	12764.2	14943.3	15621.2
77.5°	416.6	416.6	428.9	461.0	737.1	1469.2	3579.3	8953.2	10124.1	10816.8
80°	337.7	340.2	335.3	369.8	542.3	1005.8	2033.7	5980.3	6737.1	6870.2
82.5°	258.8	251.4	253.9	271.2	404.3	685.3	1084.6	3714.9	3786.4	3712.4
85°	162.7	162.7	157.8	177.5	258.8	357.4	591.6	2275.3	1777.3	1691.0
87.5°	66.6	54.2	61.6	71.5	123.3	145.4	231.7	468.4	180.0	165.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)