

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: P457337

Luminaire Tested: **GALN-SA8C-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457337
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-SA8C-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 38886 lumens
Efficiency: N/A
Efficacy: 90.6 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): 429
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



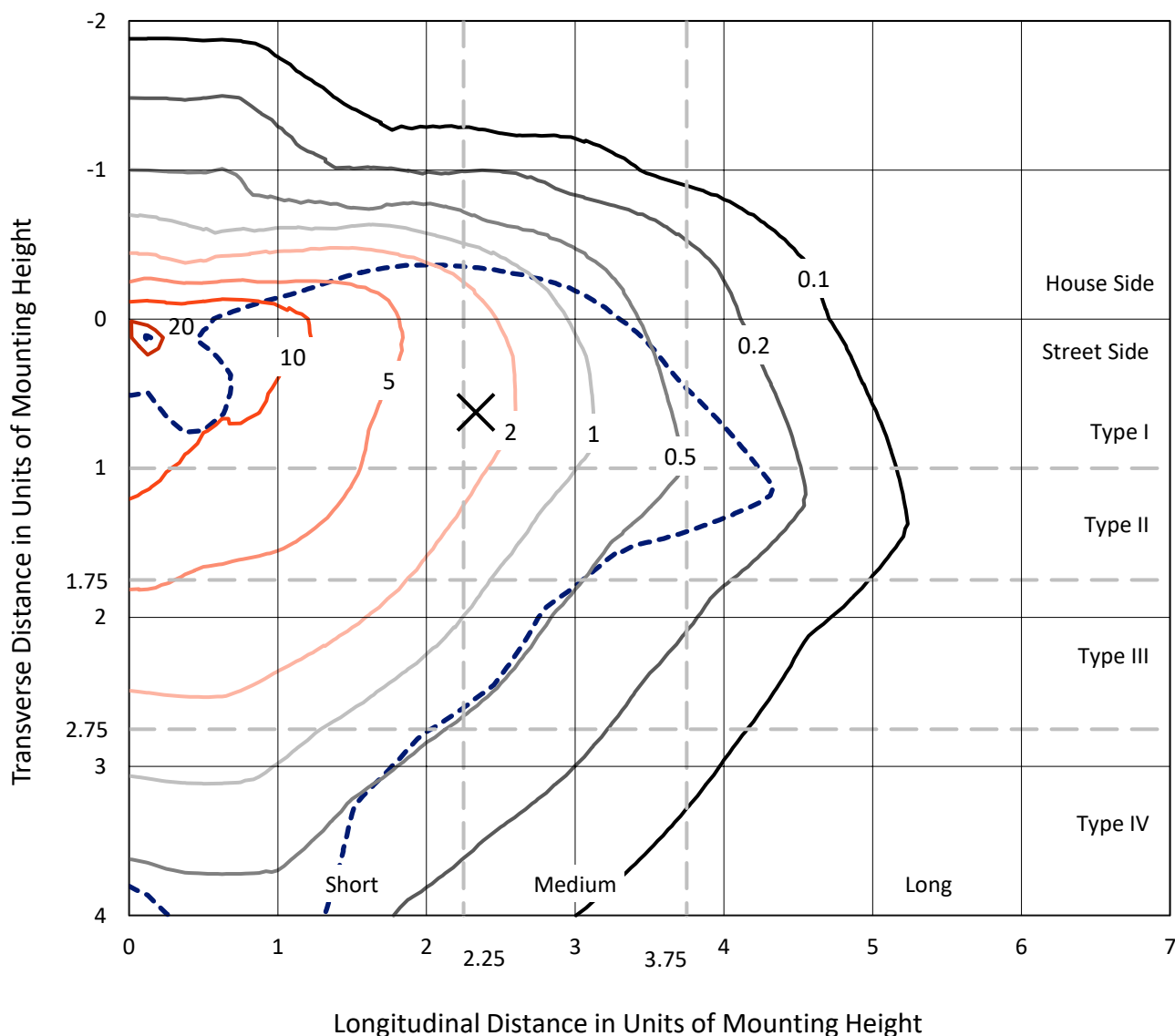
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

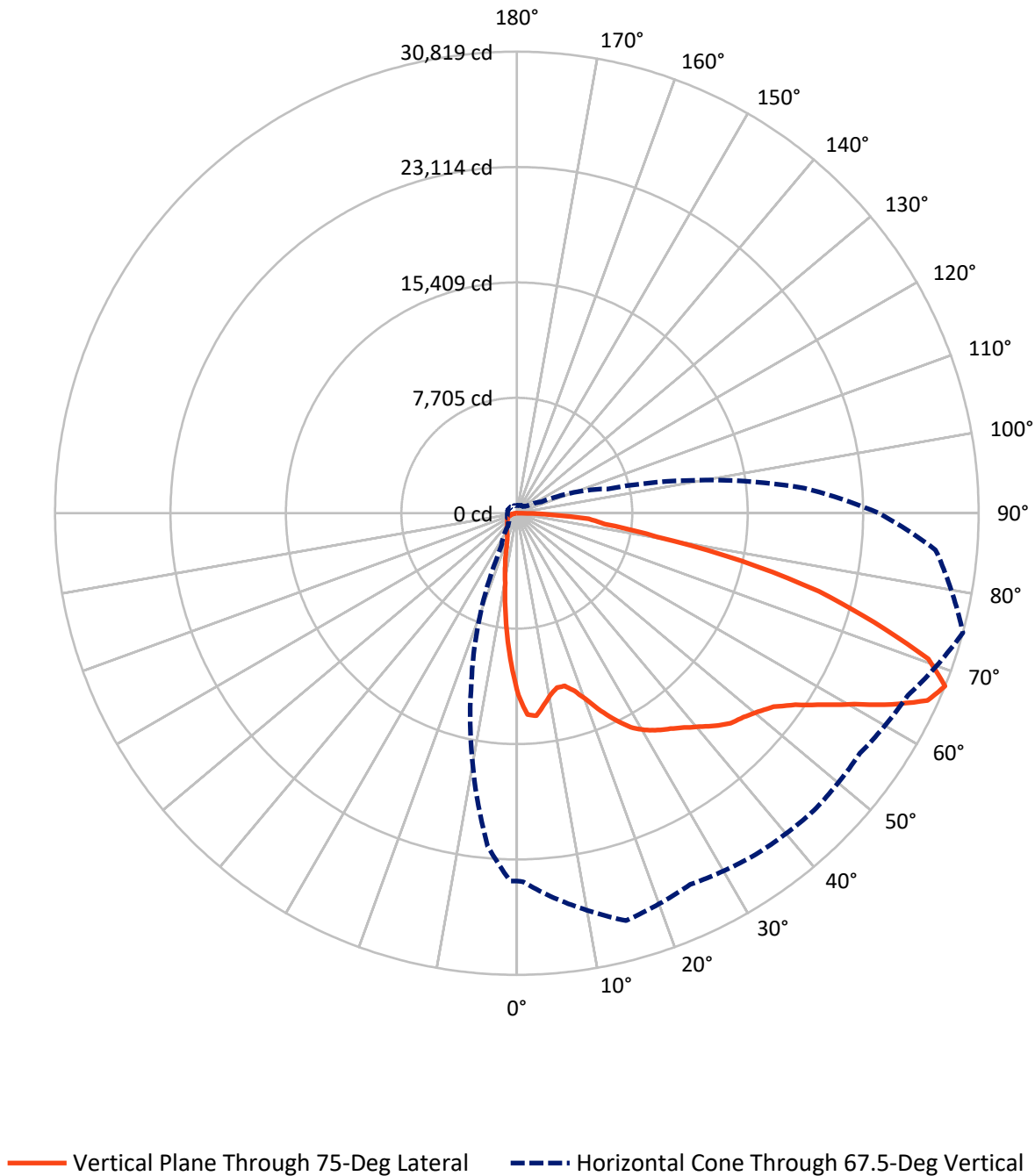
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6572.6	0.0	6572.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	32313.4	0.0	32313.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	38886.0	0.0	38886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	921.5	2.4
10°-20°	1921.7	4.9
20°-30°	2765.4	7.1
30°-40°	3982.9	10.2
40°-50°	5595.0	14.4
50°-60°	7803.0	20.1
60°-70°	9277.3	23.9
70°-80°	5463.8	14.1
80°-90°	1155.4	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°	38886.0	100.0
0°-180°	38886.0	100.0

Coefficient of Utilization



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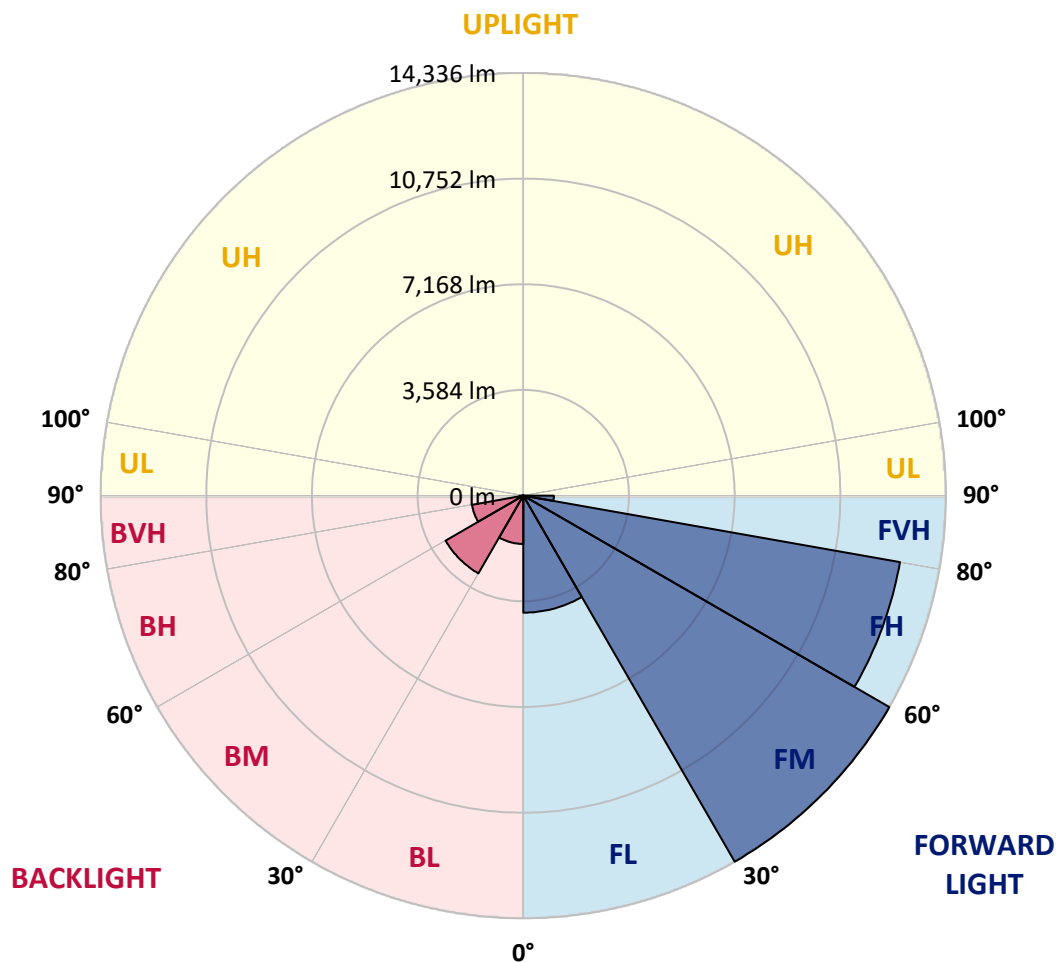
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3969.2	10.2			
FM	(30°-60°)	14335.8	36.9			
FH	(60°-80°)	12972.5	33.4			G5
FVH	(80°-90°)	1035.9	2.7			G5
BL	(0°-30°)	1639.4	4.2	B3/2500		
BM	(30°-60°)	3045.1	7.8	B3/5000		
BH	(60°-80°)	1768.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	119.5	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°	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9
2.5°	13099.0	13116.4	13228.6	13555.3	13779.7	13862.0	13919.4	13812.1	13707.4	13453.1	13069.1
5°	13059.1	13161.3	13453.1	14186.2	14764.7	15014.1	15088.9	14767.2	14236.1	13582.7	12797.2
7.5°	12296.0	12433.2	12882.0	14111.4	15131.3	15714.8	15637.5	15056.5	14098.9	12934.4	11837.2
10°	11390.8	11543.0	12084.1	13570.3	14884.4	15687.4	15687.4	14979.2	13707.4	12323.5	11059.2
12.5°	10672.7	10832.3	11450.7	13014.2	14370.7	15131.3	15258.4	14650.0	13425.6	11936.9	10548.0
15°	10435.8	10590.4	11256.2	12677.6	13827.1	14290.9	14333.3	14133.8	13288.5	11964.4	10525.6
17.5°	10730.0	10929.5	11602.8	12777.3	13328.4	13355.8	13388.2	13545.3	13303.5	12465.6	10979.4
20°	11580.4	11794.8	12498.0	13099.0	12892.0	12607.7	12625.2	13029.2	13480.5	13293.5	12064.1
22.5°	12807.2	12994.2	13714.9	13665.0	12707.5	12121.5	11999.3	12562.8	13742.3	14325.8	13218.7
25°	14131.3	14350.8	15178.7	14505.4	12759.8	11832.2	11754.9	12288.5	14014.1	15290.9	14552.8
27.5°	15647.5	15861.9	16515.2	15353.2	13034.1	11809.8	11717.5	12263.6	14258.5	16183.6	15827.0
30°	16774.6	16971.6	17415.4	16066.4	13370.8	11959.4	11844.7	12460.6	14468.0	16794.5	17068.8
32.5°	17659.8	17864.3	18106.2	16510.2	13814.6	12231.2	12019.2	12819.7	14742.3	17260.8	17989.0
35°	18582.4	18824.3	18806.9	16904.2	14228.6	12545.4	12338.4	13338.4	15173.7	17667.3	19156.0
37.5°	19751.9	19849.2	19724.5	17258.3	14724.8	13111.4	12996.7	14108.9	15787.1	18158.5	20520.0
40°	20938.9	21133.4	20492.6	17687.2	15328.3	14176.2	14163.7	15248.5	16515.2	18734.6	21841.6
42.5°	21956.3	22120.9	21210.7	18061.3	16058.9	15475.4	15570.2	16777.1	17470.3	19402.8	22903.9
45°	22721.8	22869.0	21874.0	18422.8	17021.4	16976.6	17535.1	18415.4	18674.7	20003.8	23527.3
47.5°	23372.7	23514.8	22335.3	18971.4	18210.9	18769.5	19742.0	20123.5	19704.6	20347.9	24225.5
50°	23921.3	23963.7	22652.0	19624.8	19687.1	20966.3	21908.9	22155.8	20722.0	20841.7	24831.4
52.5°	24492.3	24437.5	23198.1	20447.7	21283.0	23051.0	23736.7	23993.6	21697.0	21450.1	25714.2
55°	25771.5	25823.9	24422.5	21485.0	22896.4	25098.3	26001.0	25754.1	22776.7	22569.7	26836.3
57.5°	27317.6	27272.7	26145.6	23108.4	24539.7	27003.4	27676.7	27280.2	24218.0	24108.3	27973.4
60°	27918.5	27978.4	27586.9	24853.9	26160.5	28671.6	29359.9	28743.9	25946.1	25896.2	28831.2
62.5°	27315.1	27651.7	27916.1	26407.4	27542.0	29898.5	30581.7	29878.5	27749.0	28110.6	29432.2
65°	26113.2	26185.5	27085.7	27724.0	28207.8	30100.5	30457.0	30083.0	29255.1	30127.9	29404.7
67.5°	24552.2	24614.5	25669.3	28155.4	27350.0	27806.3	28055.7	27946.0	28788.8	30818.6	28050.7
70°	23066.0	23016.1	24130.7	27055.8	23809.1	23115.8	23322.8	22978.7	24841.4	29130.4	25395.0
72.5°	20173.4	20352.9	21549.8	23998.6	18851.8	17724.6	18176.0	17285.8	19106.1	24948.6	20612.2
75°	15802.1	15844.4	17841.8	20141.0	14221.1	12443.2	13054.1	12682.5	14635.0	20811.7	14233.6
77.5°	10942.0	10847.2	12994.2	15383.1	10141.5	9109.2	9119.2	8942.1	10218.8	15323.3	9670.3
80°	6949.7	6805.1	8134.2	9503.2	6969.7	7455.9	7211.5	7204.1	6653.0	9453.3	5847.5
82.5°	3755.4	3915.0	5139.3	5957.3	4999.7	5762.8	5281.5	5126.9	4565.8	5917.4	3740.4
85°	1710.6	1860.2	2740.5	4052.1	3797.8	3840.2	2565.9	3027.3	3777.8	4805.2	1997.4
87.5°	167.1	214.5	566.1	1912.6	1296.7	1022.4	381.5	735.6	950.1	1708.1	159.6
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°	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9
2.5°	12912.0	12782.3	12340.9	11976.8	11590.3	11296.1	10912.1	10655.2	10478.2	10211.4	10178.9
5°	12318.5	12001.8	11233.7	10450.8	9775.0	9266.3	8750.1	8276.3	7997.0	7909.8	7797.5
7.5°	11318.5	10784.9	9797.4	8899.7	8124.2	7366.1	6782.6	6368.7	6091.9	5929.8	5735.3
10°	10495.6	9877.2	8675.3	7575.6	6937.2	6466.0	5952.3	5508.4	5166.8	4875.0	4715.4
12.5°	9942.1	9243.8	7892.3	6999.6	6505.8	6004.6	5403.7	4904.9	4401.2	4069.6	3927.4
15°	9775.0	9036.9	7650.4	6712.8	6004.6	5348.8	4675.5	4024.7	3526.0	3211.8	3107.0
17.5°	10183.9	9291.2	7647.9	6331.3	5416.1	4633.1	3770.4	3159.4	2648.2	2413.8	2339.0
20°	10947.0	9780.0	7670.4	5954.8	4777.8	3675.6	2743.0	2241.8	1997.4	1897.6	1860.2
22.5°	12011.8	10525.6	7737.7	5583.2	4079.6	2822.8	2054.7	1800.4	1713.1	1695.7	1688.2
25°	13323.4	11448.2	7964.6	5249.1	3491.1	2154.5	1718.1	1603.4	1553.5	1536.1	1533.6
27.5°	14530.3	12640.1	8238.9	4962.3	2922.5	1857.7	1553.5	1456.3	1406.4	1403.9	1408.9
30°	15620.0	13637.6	8468.3	4640.6	2491.1	1650.8	1446.3	1349.0	1301.7	1299.2	1314.1
32.5°	16562.6	14458.0	8637.9	4323.9	2251.7	1523.6	1349.0	1244.3	1204.4	1196.9	1204.4
35°	17570.0	15275.9	8560.6	4077.1	2114.6	1418.9	1276.7	1174.5	1127.1	1104.7	1104.7
37.5°	18719.6	16118.7	8428.4	3872.6	2052.2	1331.6	1214.4	1114.6	1067.3	1044.8	1042.3
40°	19973.9	16961.6	8246.4	3690.6	1989.9	1279.2	1172.0	1067.3	1009.9	987.5	982.5
42.5°	21081.0	17682.2	8096.8	3570.9	1887.7	1289.2	1134.6	1032.4	960.0	930.1	927.6
45°	22043.6	18407.9	8069.3	3501.0	1802.9	1274.2	1124.6	1004.9	920.1	887.7	882.7
47.5°	22796.7	19163.5	8226.4	3461.1	1710.6	1194.4	1189.5	987.5	885.2	850.3	845.3
50°	23714.3	20235.7	8585.5	3378.9	1625.8	1119.6	1256.8	985.0	857.8	812.9	800.5
52.5°	24936.2	21632.1	9071.8	3231.7	1503.7	1049.8	1199.4	985.0	825.4	780.5	765.5
55°	26784.0	23412.6	9548.1	3024.8	1331.6	957.5	1082.2	955.1	778.0	738.1	728.1
57.5°	28008.3	24714.2	9852.3	2738.0	1117.1	890.2	932.6	907.7	730.6	688.2	688.2
60°	28070.7	25063.4	9707.7	2376.4	982.5	827.9	810.4	915.2	688.2	643.4	638.4
62.5°	27352.5	24208.0	8954.6	2052.2	910.2	760.6	733.1	802.9	645.8	601.0	593.5
65°	26230.4	22026.1	7647.9	1897.6	870.3	700.7	660.8	658.3	601.0	558.6	548.6
67.5°	24168.1	19248.2	6283.9	1807.9	850.3	633.4	596.0	583.5	548.6	513.7	508.7
70°	21128.4	16121.2	5039.6	1770.5	840.3	563.6	533.6	518.7	488.7	461.3	458.8
72.5°	16437.9	13076.5	4159.4	1745.5	835.4	498.7	466.3	446.4	428.9	404.0	404.0
75°	11807.3	9620.4	3174.4	1573.5	773.0	428.9	394.0	381.5	356.6	336.6	341.6
77.5°	7443.4	6478.4	2089.7	1157.0	598.5	344.1	314.2	306.7	286.8	259.3	276.8
80°	5027.1	4555.8	1219.4	728.1	376.5	251.9	241.9	239.4	216.9	187.0	189.5
82.5°	3421.2	3356.4	633.4	413.9	216.9	147.1	142.1	147.1	122.2	99.7	99.7
85°	1336.6	1825.3	299.2	162.1	69.8	22.4	32.4	34.9	19.9	10.0	12.5
87.5°	24.9	187.0	7.5	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°	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9
2.5°	10129.1	10106.6	10144.0	9984.4	10016.9	10076.7	10106.6	10124.1	10371.0	10313.6	10470.7
5°	7902.3	7879.8	8024.5	8044.4	8119.2	8104.3	8176.6	8194.0	8283.8	8316.2	8535.7
7.5°	5747.8	5845.0	6009.6	6094.4	6221.6	6261.5	6224.1	6316.3	6129.3	6264.0	6303.9
10°	4618.2	4501.0	4431.2	4625.7	4650.6	4835.1	4760.3	4700.5	4810.2	4815.2	4919.9
12.5°	3845.2	3593.3	3426.2	3481.1	3540.9	3620.7	3633.2	3752.9	3832.7	3907.5	3969.8
15°	3014.8	2927.5	2775.4	2700.6	2785.4	2817.8	2895.1	2994.8	3079.6	3102.1	3186.8
17.5°	2314.1	2329.0	2304.1	2259.2	2311.6	2336.5	2341.5	2344.0	2366.4	2351.5	2476.2
20°	1862.7	1915.1	1977.4	1987.4	2004.9	2017.3	1994.9	1910.1	1912.6	1965.0	2004.9
22.5°	1685.7	1695.7	1765.5	1787.9	1842.8	1820.3	1755.5	1715.6	1710.6	1723.1	1743.0
25°	1546.0	1561.0	1610.9	1645.8	1688.2	1648.3	1600.9	1563.5	1558.5	1571.0	1590.9
27.5°	1421.4	1443.8	1488.7	1523.6	1563.5	1526.1	1481.2	1448.8	1446.3	1443.8	1456.3
30°	1321.6	1346.6	1379.0	1418.9	1446.3	1413.9	1371.5	1354.0	1351.5	1346.6	1351.5
32.5°	1221.9	1261.8	1294.2	1314.1	1341.6	1316.6	1284.2	1274.2	1256.8	1241.8	1234.3
35°	1109.7	1152.1	1201.9	1226.9	1254.3	1229.4	1206.9	1164.5	1134.6	1132.1	1137.1
37.5°	1044.8	1062.3	1102.2	1144.6	1172.0	1159.5	1117.1	1074.7	1067.3	1067.3	1072.3
40°	987.5	995.0	1012.4	1067.3	1117.1	1079.7	1027.4	1014.9	1014.9	1012.4	1014.9
42.5°	930.1	937.6	937.6	980.0	1059.8	999.9	960.0	960.0	960.0	962.5	970.0
45°	877.8	880.2	877.8	907.7	982.5	932.6	905.2	912.7	917.7	922.6	927.6
47.5°	832.9	835.4	832.9	857.8	895.2	875.3	860.3	870.3	880.2	887.7	892.7
50°	793.0	790.5	795.5	810.4	827.9	832.9	822.9	837.9	842.8	852.8	865.3
52.5°	758.1	755.6	760.6	768.0	793.0	793.0	793.0	805.4	815.4	825.4	842.8
55°	718.2	720.7	728.1	738.1	770.5	765.5	768.0	778.0	788.0	802.9	812.9
57.5°	680.8	685.7	695.7	710.7	743.1	740.6	743.1	748.1	760.6	768.0	778.0
60°	638.4	648.3	660.8	670.8	703.2	700.7	713.2	723.1	730.6	730.6	735.6
62.5°	596.0	610.9	623.4	630.9	665.8	668.3	685.7	693.2	698.2	693.2	700.7
65°	553.6	576.0	581.0	591.0	625.9	628.4	648.3	665.8	660.8	655.8	668.3
67.5°	511.2	538.6	536.1	548.6	583.5	588.5	605.9	635.9	625.9	620.9	630.9
70°	463.8	483.8	486.3	493.7	541.1	533.6	561.1	588.5	581.0	583.5	583.5
72.5°	411.4	428.9	428.9	443.9	493.7	481.3	503.7	533.6	533.6	531.1	531.1
75°	349.1	359.1	369.1	391.5	443.9	428.9	443.9	471.3	476.3	471.3	471.3
77.5°	281.8	296.7	301.7	331.7	369.1	366.6	381.5	394.0	404.0	399.0	399.0
80°	199.5	214.5	234.4	266.8	289.3	296.7	304.2	314.2	319.2	319.2	324.2
82.5°	112.2	134.7	152.1	184.5	194.5	231.9	229.4	236.9	229.4	202.0	224.4
85°	24.9	47.4	67.3	84.8	97.3	134.7	142.1	159.6	132.2	122.2	122.2
87.5°	0.0	0.0	0.0	0.0	0.0	19.9	39.9	54.9	47.4	39.9	39.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9	12148.9
2.5°	10602.9	10819.8	11081.6	11533.0	11849.7	12191.3	12535.4	12902.0	12999.2	13099.0
5°	8595.5	9021.9	9253.8	9859.8	10495.6	11303.6	11964.4	12687.5	12989.3	13059.1
7.5°	6510.8	6800.1	7408.5	8022.0	8810.0	9657.8	10670.2	11797.3	12148.9	12296.0
10°	5161.8	5555.8	6089.4	6747.7	7438.5	8351.1	9493.2	10809.8	11308.6	11390.8
12.5°	4393.8	4832.6	5413.6	6109.4	6762.7	7450.9	8603.0	9962.0	10495.6	10672.7
15°	3513.5	4044.6	4715.4	5448.6	6159.2	6912.3	8079.3	9612.9	10228.8	10435.8
17.5°	2760.4	3189.3	3915.0	4710.4	5553.3	6505.8	7969.6	9780.0	10538.0	10730.0
20°	2112.1	2418.8	3029.7	3870.1	4857.6	6104.4	7997.0	10410.9	11318.5	11580.4
22.5°	1825.3	1982.4	2354.0	3154.4	4259.1	5755.3	8109.2	11276.1	12370.8	12807.2
25°	1653.3	1735.6	1945.0	2468.7	3688.1	5416.1	8366.1	12440.7	13842.1	14131.3
27.5°	1506.1	1566.0	1695.7	2072.2	3169.4	5101.9	8665.3	13732.4	15216.1	15647.5
30°	1366.5	1446.3	1568.5	1840.3	2837.7	4815.2	9041.9	14779.7	16373.1	16774.6
32.5°	1259.3	1339.1	1451.3	1678.2	2556.0	4513.4	9266.3	15699.8	17318.2	17659.8
35°	1172.0	1239.3	1356.5	1548.5	2341.5	4284.0	9221.4	16430.4	18233.3	18582.4
37.5°	1109.7	1167.0	1284.2	1426.3	2179.4	4044.6	9199.0	17395.5	19348.0	19751.9
40°	1052.3	1112.2	1219.4	1346.6	2017.3	3762.9	9211.4	18353.0	20534.9	20938.9
42.5°	1007.4	1074.7	1162.0	1324.1	1850.3	3536.0	9211.4	19185.9	21567.3	21956.3
45°	970.0	1042.3	1127.1	1321.6	1718.1	3363.9	9149.1	19901.6	22390.2	22721.8
47.5°	937.6	1017.4	1139.6	1276.7	1685.7	3239.2	9094.2	20475.1	23061.0	23372.7
50°	915.2	1009.9	1211.9	1224.4	1695.7	3201.8	9358.5	21198.2	23652.0	23921.3
52.5°	897.7	1012.4	1209.4	1147.1	1678.2	3226.7	9909.6	22327.9	24472.4	24492.3
55°	862.8	1009.9	1147.1	1059.8	1605.9	3269.1	10617.8	23968.7	25756.6	25771.5
57.5°	827.9	982.5	1064.8	985.0	1458.8	3269.1	11470.6	25522.2	27305.1	27317.6
60°	793.0	1022.4	935.1	920.1	1266.8	3209.3	12370.8	26205.4	27791.4	27918.5
62.5°	758.1	1029.9	835.4	862.8	1127.1	3064.7	13041.6	25449.9	27133.1	27315.1
65°	718.2	830.4	770.5	802.9	1054.8	2822.8	12829.7	24065.9	25896.2	26113.2
67.5°	670.8	703.2	700.7	740.6	1029.9	2466.2	11712.5	22315.4	24564.6	24552.2
70°	613.4	630.9	638.4	680.8	982.5	2189.4	9760.0	20043.7	22786.7	23066.0
72.5°	553.6	568.5	576.0	613.4	935.1	2032.3	7575.6	16914.2	19737.0	20173.4
75°	488.7	498.7	508.7	541.1	885.2	1800.4	5396.2	12912.0	15116.3	15802.1
77.5°	421.4	421.4	433.9	466.3	745.6	1486.2	3620.7	9056.8	10241.3	10942.0
80°	341.6	344.1	339.1	374.0	548.6	1017.4	2057.2	6049.5	6815.1	6949.7
82.5°	261.8	254.3	256.8	274.3	409.0	693.2	1097.2	3757.9	3830.2	3755.4
85°	164.6	164.6	159.6	179.5	261.8	361.6	598.5	2301.6	1797.9	1710.6
87.5°	67.3	54.9	62.3	72.3	124.7	147.1	234.4	473.8	182.0	167.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)