

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: P647172

Luminaire Tested: **GALN-SA9C-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647172
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-SA9C-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 43016.5 lumens
Efficiency: N/A
Efficacy: 89.4 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

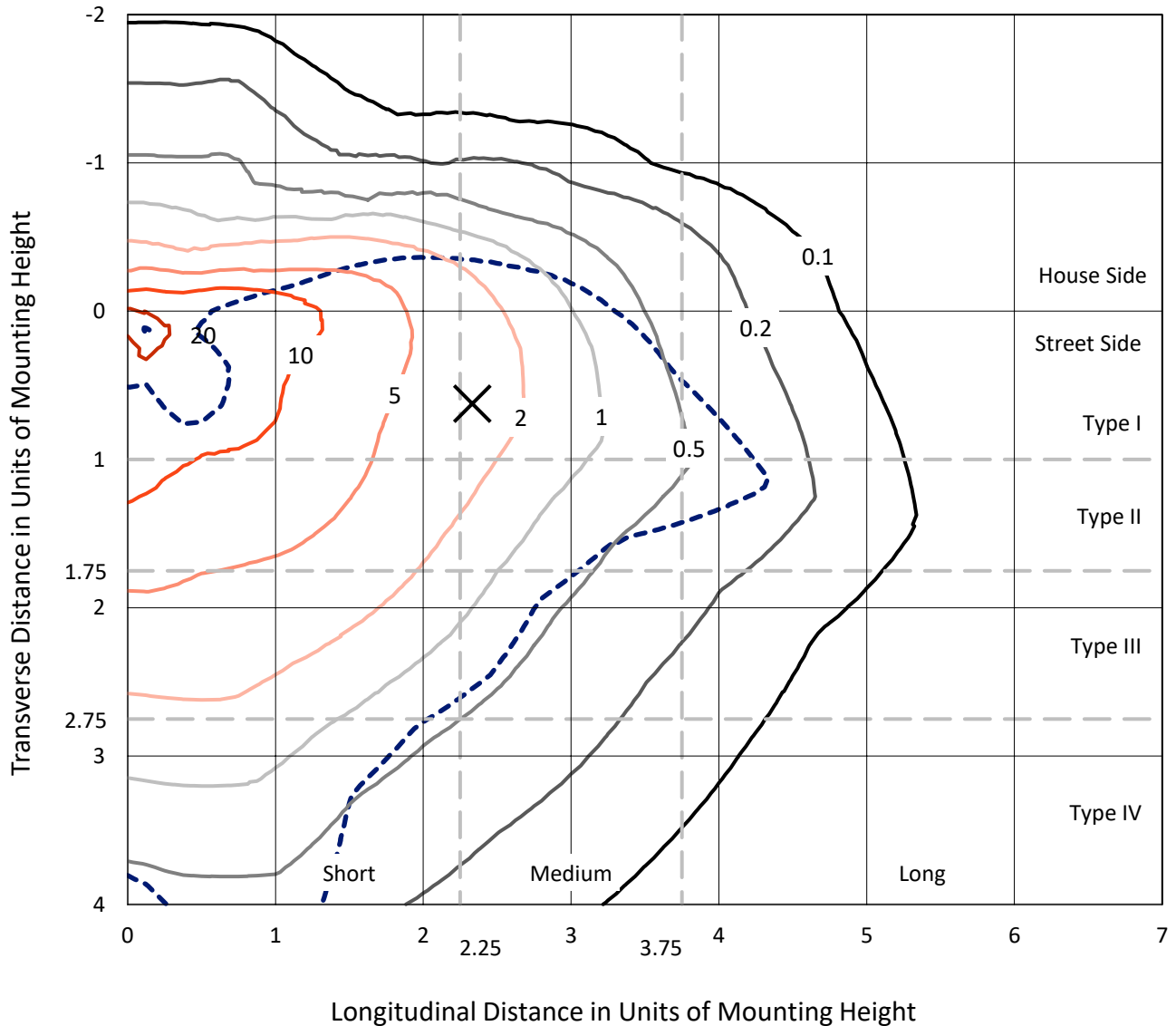
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

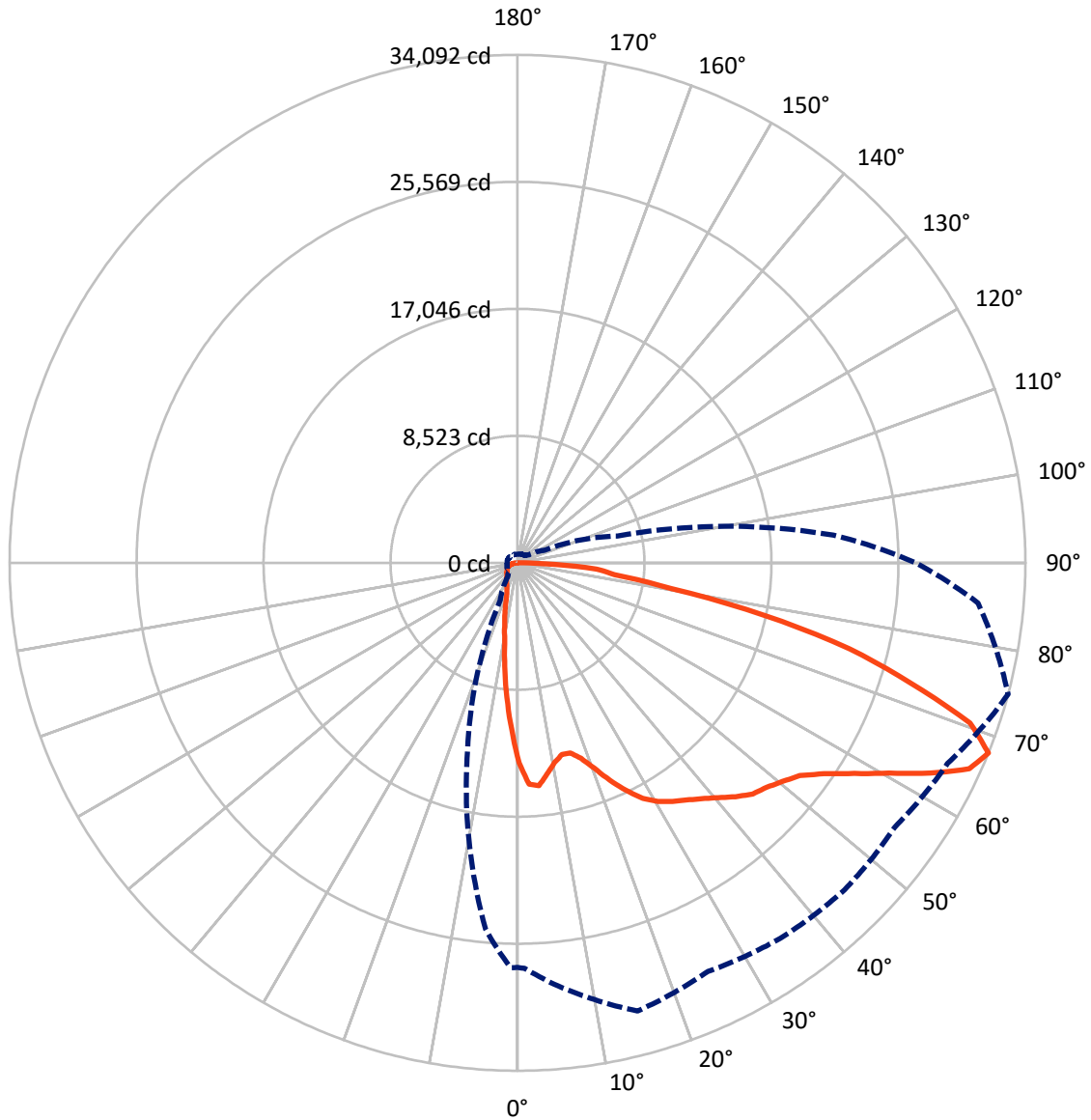
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.5 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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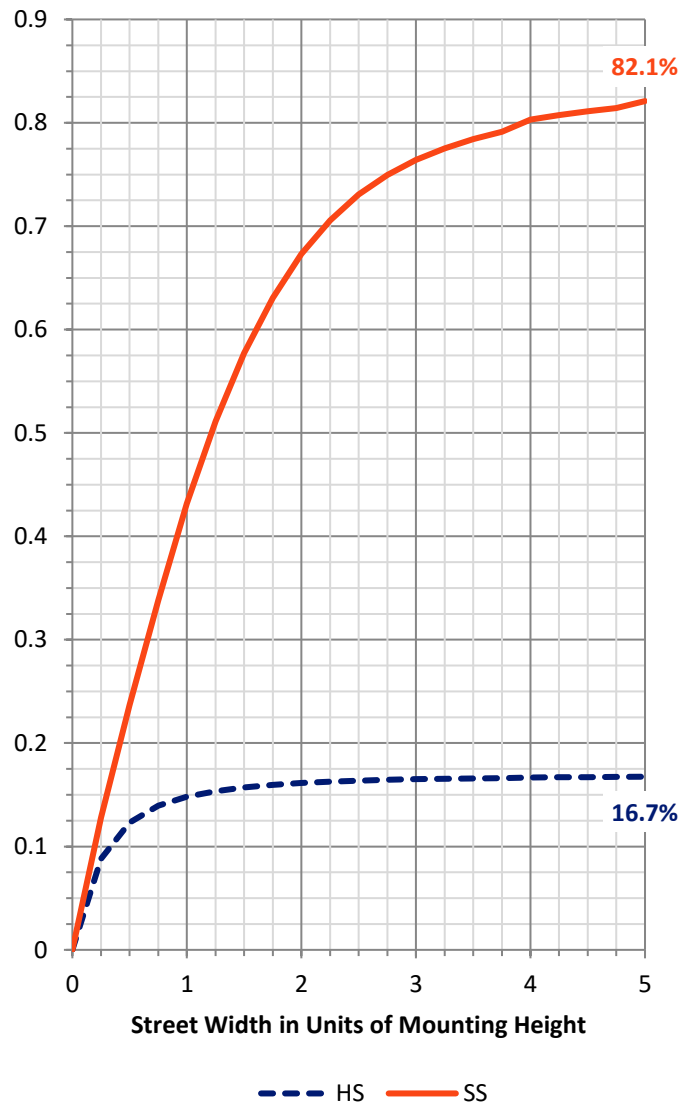
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7270.7	0.0	7270.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	35745.8	0.0	35745.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	43016.5	0.0	43016.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1019.3	2.4
10°-20°	2125.9	4.9
20°-30°	3059.1	7.1
30°-40°	4406.0	10.2
40°-50°	6189.3	14.4
50°-60°	8631.8	20.1
60°-70°	10262.7	23.9
70°-80°	6044.2	14.1
80°-90°	1278.1	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°	43016.5	100.0
0°-180°	43016.5	100.0

Coefficient of Utilization

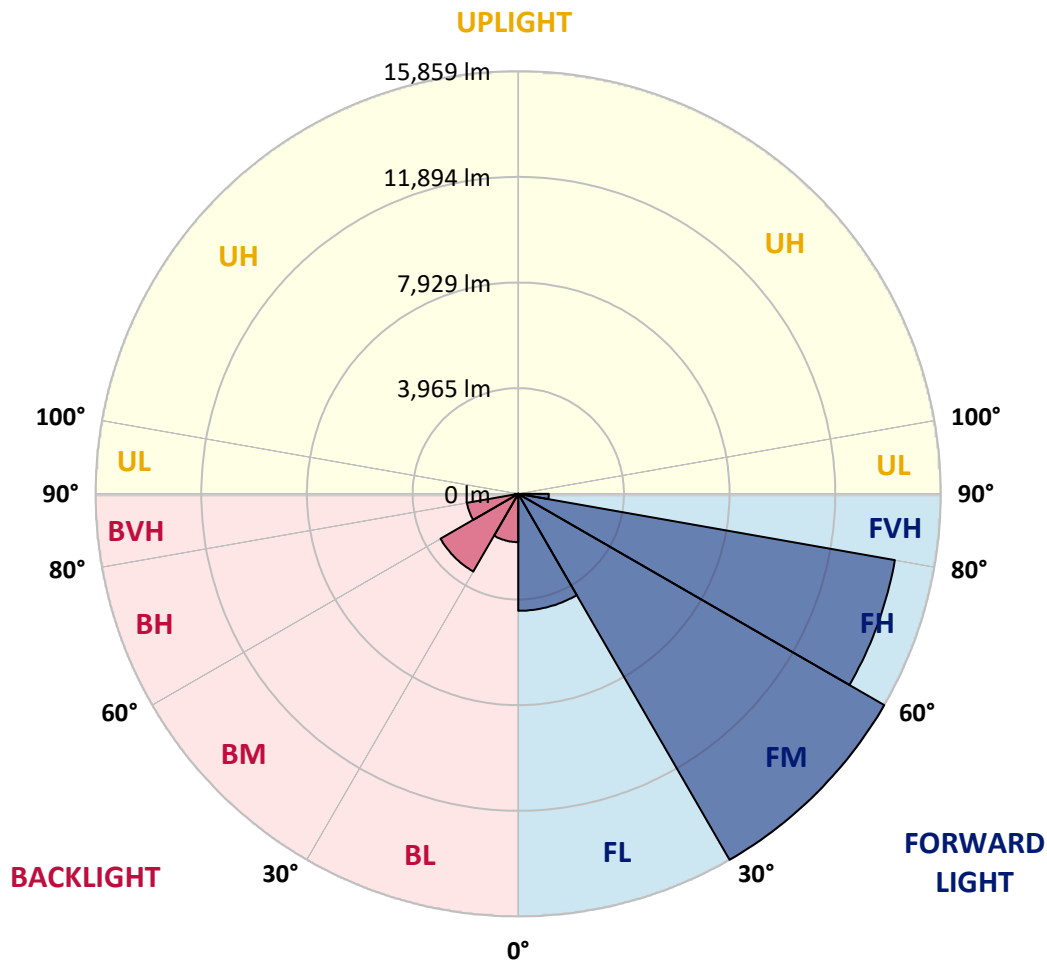


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4390.8	10.2			
FM (30°-60°)	15858.6	36.9			
FH (60°-80°)	14350.5	33.4			G5
FVH (80°-90°)	1145.9	2.7			G5
BL (0°-30°)	1813.5	4.2	B3/2500		
BM (30°-60°)	3368.5	7.8	B3/5000		
BH (60°-80°)	1956.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	132.2	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°	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3
2.5°	14490.4	14509.6	14633.8	14995.2	15243.4	15334.4	15397.9	15279.3	15163.4	14882.0	14457.2
5°	14446.2	14559.3	14882.0	15693.0	16333.0	16608.8	16691.6	16335.8	15748.2	15025.5	14156.6
7.5°	13602.1	13753.9	14250.4	15610.3	16738.5	17384.0	17298.5	16655.7	15596.5	14308.3	13094.6
10°	12600.7	12769.0	13367.6	15011.7	16465.4	17353.6	17353.6	16570.2	15163.4	13632.4	12233.9
12.5°	11806.3	11982.9	12667.0	14396.6	15897.2	16738.5	16879.2	16206.1	14851.7	13204.9	11668.4
15°	11544.2	11715.3	12451.8	14024.2	15295.8	15808.9	15855.8	15635.1	14700.0	13235.2	11643.6
17.5°	11869.8	12090.5	12835.2	14134.5	14744.1	14774.5	14810.3	14984.1	14716.6	13789.6	12145.7
20°	12810.4	13047.7	13825.5	14490.4	14261.4	13947.0	13966.2	14413.1	14912.4	14705.5	13345.6
22.5°	14167.6	14374.5	15171.7	15116.5	14057.3	13409.0	13273.9	13897.2	15202.0	15847.5	14622.8
25°	15632.4	15875.1	16790.9	16046.1	14115.2	13089.0	13003.5	13593.8	15502.7	16915.1	16098.6
27.5°	17309.5	17546.7	18269.5	16984.1	14418.6	13064.2	12962.2	13566.3	15773.1	17902.6	17508.1
30°	18556.3	18774.3	19265.3	17772.9	14791.0	13229.7	13102.8	13784.2	16004.8	18578.4	18881.9
32.5°	19535.6	19761.8	20029.4	18263.9	15282.0	13530.4	13295.9	14181.4	16308.2	19094.2	19899.7
35°	20556.3	20823.8	20804.5	18699.8	15739.9	13878.0	13649.0	14755.2	16785.4	19543.9	21190.7
37.5°	21850.0	21957.6	21819.6	19091.5	16288.9	14504.1	14377.2	15607.5	17464.0	20087.3	22699.6
40°	23163.0	23378.2	22669.3	19566.0	16956.4	15682.0	15668.2	16868.2	18269.5	20724.5	24161.6
42.5°	24288.5	24470.6	23463.7	19979.7	17764.7	17119.2	17224.0	18559.1	19326.0	21463.8	25336.7
45°	25135.3	25298.1	24197.4	20379.7	18829.4	18779.8	19397.7	20371.5	20658.4	22128.6	26026.4
47.5°	25855.3	26012.5	24707.8	20986.6	20145.3	20763.1	21839.0	22261.0	21797.5	22509.3	26798.7
50°	26462.2	26509.1	25058.1	21709.3	21778.3	23193.4	24236.1	24509.2	22923.0	23055.4	27469.0
52.5°	27093.9	27033.2	25662.2	22619.6	23543.7	25499.5	26258.1	26542.2	24001.6	23728.5	28445.5
55°	28509.0	28566.9	27016.6	23767.1	25328.5	27764.2	28762.8	28489.7	25196.0	24967.1	29686.9
57.5°	30219.3	30169.6	28922.8	25562.9	27146.3	29871.7	30616.5	30177.8	26790.4	26669.1	30944.7
60°	30884.0	30950.3	30517.2	27493.9	28939.3	31717.1	32478.4	31797.1	28702.0	28646.9	31893.6
62.5°	30216.5	30588.9	30881.3	29212.4	30467.5	33074.3	33830.1	33052.2	30696.5	31096.5	32558.5
65°	28886.9	28966.9	29962.7	30668.9	31204.0	33297.7	33692.2	33278.4	32362.6	33328.1	32528.1
67.5°	27160.1	27229.1	28395.9	31146.1	30255.1	30759.9	31035.8	30914.4	31846.7	34092.1	31030.2
70°	25516.0	25460.9	26693.9	29929.6	26338.1	25571.2	25800.2	25419.5	27480.1	32224.7	28092.5
72.5°	22316.2	22514.8	23838.8	26547.7	20854.2	19607.3	20106.7	19121.9	21135.5	27598.7	22801.7
75°	17480.6	17527.5	19737.0	22280.3	15731.6	13764.8	14440.7	14029.6	16189.5	23022.3	15745.4
77.5°	12104.2	11999.4	14374.5	17017.1	11218.7	10076.7	10087.8	9892.0	11304.2	16950.9	10697.4
80°	7687.9	7527.9	8998.2	10512.6	7710.0	8247.9	7977.5	7969.3	7359.7	10457.4	6468.7
82.5°	4154.3	4330.9	5685.3	6590.0	5530.8	6374.9	5842.5	5671.4	5050.8	6545.9	4137.8
85°	1892.4	2057.8	3031.5	4482.5	4201.2	4248.1	2838.5	3348.8	4179.1	5315.6	2209.5
87.5°	184.8	237.2	626.2	2115.7	1434.4	1131.0	422.0	813.8	1051.0	1889.5	176.6
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°	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3
2.5°	14283.5	14140.0	13651.8	13249.0	12821.5	12496.0	12071.1	11787.0	11591.1	11296.0	11260.2
5°	13626.9	13276.6	12427.0	11560.8	10813.3	10250.6	9679.5	9155.5	8846.5	8749.9	8625.8
7.5°	12520.8	11930.5	10838.1	9845.1	8987.2	8148.6	7503.1	7045.2	6739.0	6559.7	6344.5
10°	11610.5	10926.4	9596.8	8380.3	7674.1	7152.8	6584.5	6093.5	5715.6	5392.8	5216.3
12.5°	10998.1	10225.7	8730.6	7743.1	7196.9	6642.4	5977.7	5426.0	4868.7	4501.9	4344.6
15°	10813.3	9996.8	8463.1	7425.8	6642.4	5917.0	5172.2	4452.2	3900.5	3552.9	3437.1
17.5°	11265.6	10278.1	8460.3	7003.8	5991.4	5125.3	4170.8	3495.0	2929.5	2670.2	2587.4
20°	12109.8	10818.8	8485.1	6587.3	5285.2	4066.0	3034.4	2479.9	2209.5	2099.2	2057.8
22.5°	13287.7	11643.6	8559.6	6176.2	4512.9	3122.6	2273.0	1991.6	1895.1	1875.8	1867.5
25°	14738.6	12664.2	8810.6	5806.6	3861.9	2383.3	1900.6	1773.7	1718.5	1699.3	1696.4
27.5°	16073.7	13982.8	9114.0	5489.4	3232.9	2055.1	1718.5	1610.9	1555.8	1553.0	1558.6
30°	17279.2	15086.1	9367.8	5133.6	2755.8	1826.1	1599.9	1492.3	1439.9	1437.2	1453.7
32.5°	18321.9	15993.7	9555.4	4783.2	2490.9	1685.4	1492.3	1376.5	1332.4	1324.1	1332.4
35°	19436.3	16898.5	9469.9	4510.2	2339.2	1569.6	1412.4	1299.2	1246.8	1222.0	1222.0
37.5°	20708.0	17830.9	9323.7	4283.9	2270.2	1473.1	1343.4	1233.1	1180.6	1155.8	1153.0
40°	22095.5	18763.3	9122.3	4082.6	2201.2	1415.1	1296.5	1180.6	1117.2	1092.4	1086.9
42.5°	23320.2	19560.4	8956.8	3950.2	2088.2	1426.2	1255.1	1142.0	1062.0	1028.9	1026.1
45°	24385.0	20363.2	8926.4	3873.0	1994.4	1409.6	1244.1	1111.7	1017.9	982.0	976.5
47.5°	25218.1	21199.0	9100.3	3828.8	1892.4	1321.3	1315.8	1092.4	979.3	940.6	935.1
50°	26233.2	22385.1	9497.5	3737.7	1798.6	1238.5	1390.3	1089.6	948.9	899.3	885.5
52.5°	27584.9	23929.9	10035.4	3575.0	1663.4	1161.3	1326.9	1089.6	913.1	863.4	846.9
55°	29629.0	25899.4	10562.3	3346.1	1473.1	1059.2	1197.2	1056.5	860.7	816.5	805.5
57.5°	30983.3	27339.4	10898.8	3028.8	1235.8	984.8	1031.7	1004.1	808.2	761.3	761.3
60°	31052.3	27725.6	10738.8	2628.8	1086.9	915.8	896.5	1012.3	761.3	711.7	706.2
62.5°	30257.9	26779.4	9905.7	2270.2	1006.9	841.3	811.0	888.2	714.5	664.8	656.5
65°	29016.6	24365.7	8460.3	2099.2	962.7	775.2	731.0	728.3	664.8	617.9	606.9
67.5°	26735.3	21292.7	6951.4	1999.9	940.6	700.6	659.3	645.5	606.9	568.2	562.7
70°	23372.7	17833.6	5574.9	1958.5	929.6	623.4	590.3	573.8	540.7	510.4	507.5
72.5°	18183.9	14465.5	4601.1	1931.0	924.1	551.7	515.8	493.8	474.5	446.9	446.9
75°	13061.5	10642.2	3511.5	1740.6	855.1	474.5	435.8	422.0	394.5	372.4	377.9
77.5°	8234.1	7166.6	2311.7	1280.0	662.0	380.7	347.6	339.3	317.2	286.9	306.2
80°	5561.1	5039.8	1348.9	805.5	416.6	278.6	267.6	264.8	240.0	206.9	209.6
82.5°	3784.6	3712.9	700.6	457.9	240.0	162.8	157.2	162.8	135.1	110.3	110.3
85°	1478.5	2019.2	331.1	179.3	77.2	24.8	35.9	38.6	22.1	11.0	13.8
87.5°	27.6	206.9	8.3	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°	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3
2.5°	11205.0	11180.1	11221.6	11045.0	11080.9	11147.0	11180.1	11199.5	11472.6	11409.1	11582.9
5°	8741.6	8716.8	8876.8	8898.9	8981.6	8965.1	9045.1	9064.4	9163.7	9199.5	9442.3
7.5°	6358.4	6465.9	6648.0	6741.7	6882.4	6926.6	6885.2	6987.3	6780.4	6929.3	6973.5
10°	5108.7	4979.1	4901.8	5117.0	5144.5	5348.7	5266.0	5199.7	5321.1	5326.7	5442.5
12.5°	4253.6	3975.0	3790.2	3850.9	3917.0	4005.4	4019.1	4151.5	4239.8	4322.6	4391.5
15°	3335.0	3238.5	3070.2	2987.5	3081.3	3117.1	3202.6	3313.0	3406.8	3431.6	3525.4
17.5°	2559.9	2576.5	2548.8	2499.2	2557.1	2584.7	2590.2	2593.0	2617.8	2601.3	2739.2
20°	2060.6	2118.5	2187.5	2198.5	2217.8	2231.6	2206.8	2113.0	2115.7	2173.7	2217.8
22.5°	1864.7	1875.8	1953.0	1977.9	2038.5	2013.7	1942.0	1897.8	1892.4	1906.1	1928.2
25°	1710.2	1726.8	1782.0	1820.6	1867.5	1823.4	1770.9	1729.6	1724.1	1737.9	1759.9
27.5°	1572.3	1597.2	1646.8	1685.4	1729.6	1688.2	1638.5	1602.6	1599.9	1597.2	1610.9
30°	1462.0	1489.6	1525.4	1569.6	1599.9	1564.0	1517.1	1497.9	1495.1	1489.6	1495.1
32.5°	1351.7	1395.8	1431.6	1453.7	1484.1	1456.5	1420.6	1409.6	1390.3	1373.7	1365.5
35°	1227.5	1274.4	1329.6	1357.2	1387.6	1359.9	1335.1	1288.2	1255.1	1252.3	1257.9
37.5°	1155.8	1175.1	1219.3	1266.1	1296.5	1282.7	1235.8	1188.9	1180.6	1180.6	1186.2
40°	1092.4	1100.7	1119.9	1180.6	1235.8	1194.4	1136.5	1122.7	1122.7	1119.9	1122.7
42.5°	1028.9	1037.2	1037.2	1084.1	1172.4	1106.1	1062.0	1062.0	1062.0	1064.8	1073.0
45°	971.0	973.7	971.0	1004.1	1086.9	1031.7	1001.3	1009.6	1015.2	1020.6	1026.1
47.5°	921.4	924.1	921.4	948.9	990.3	968.3	951.7	962.7	973.7	982.0	987.5
50°	877.2	874.5	879.9	896.5	915.8	921.4	910.3	926.8	932.4	943.4	957.2
52.5°	838.6	835.9	841.3	849.6	877.2	877.2	877.2	891.0	902.0	913.1	932.4
55°	794.4	797.2	805.5	816.5	852.4	846.9	849.6	860.7	871.7	888.2	899.3
57.5°	753.1	758.6	769.6	786.1	822.0	819.3	822.0	827.6	841.3	849.6	860.7
60°	706.2	717.2	731.0	742.0	777.9	775.2	789.0	800.0	808.2	808.2	813.8
62.5°	659.3	675.8	689.6	697.9	736.5	739.3	758.6	766.9	772.4	766.9	775.2
65°	612.4	637.2	642.8	653.7	692.4	695.1	717.2	736.5	731.0	725.4	739.3
67.5°	565.5	595.9	593.0	606.9	645.5	651.0	670.3	703.4	692.4	686.8	697.9
70°	513.1	535.2	537.9	546.1	598.6	590.3	620.7	651.0	642.8	645.5	645.5
72.5°	455.2	474.5	474.5	491.0	546.1	532.4	557.2	590.3	590.3	587.6	587.6
75°	386.2	397.2	408.3	433.1	491.0	474.5	491.0	521.3	526.9	521.3	521.3
77.5°	311.7	328.2	333.8	366.9	408.3	405.5	422.0	435.8	446.9	441.4	441.4
80°	220.6	237.2	259.3	295.2	320.0	328.2	336.5	347.6	353.1	353.1	358.6
82.5°	124.1	148.9	168.3	204.1	215.2	256.5	253.8	262.1	253.8	223.5	248.3
85°	27.6	52.4	74.5	93.8	107.6	148.9	157.2	176.6	146.2	135.1	135.1
87.5°	0.0	0.0	0.0	0.0	0.0	22.1	44.2	60.7	52.4	44.2	44.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3	13439.3
2.5°	11729.1	11969.1	12258.7	12758.0	13108.4	13486.2	13866.9	14272.4	14380.0	14490.4
5°	9508.5	9980.2	10236.8	10907.0	11610.5	12504.2	13235.2	14035.2	14369.0	14446.2
7.5°	7202.4	7522.4	8195.5	8874.1	9745.8	10683.6	11803.6	13050.4	13439.3	13602.1
10°	5710.1	6145.9	6736.2	7464.5	8228.5	9238.1	10501.6	11958.1	12509.8	12600.7
12.5°	4860.5	5345.9	5988.7	6758.3	7481.0	8242.3	9516.8	11020.2	11610.5	11806.3
15°	3886.7	4474.3	5216.3	6027.3	6813.4	7646.5	8937.5	10634.0	11315.3	11544.2
17.5°	3053.6	3528.1	4330.9	5210.8	6143.2	7196.9	8816.1	10818.8	11657.4	11869.8
20°	2336.5	2675.7	3351.6	4281.2	5373.6	6752.7	8846.5	11516.7	12520.8	12810.4
22.5°	2019.2	2193.0	2604.0	3489.5	4711.5	6366.6	8970.6	12473.9	13684.9	14167.6
25°	1828.9	1919.9	2151.6	2730.9	4079.8	5991.4	9254.7	13762.1	15312.3	15632.4
27.5°	1666.1	1732.3	1875.8	2292.3	3506.0	5643.9	9585.7	15191.0	16832.3	17309.5
30°	1511.7	1599.9	1735.1	2035.8	3139.1	5326.7	10002.3	16349.6	18112.2	18556.3
32.5°	1393.0	1481.3	1605.5	1856.5	2827.4	4992.9	10250.6	17367.4	19157.7	19535.6
35°	1296.5	1371.0	1500.6	1713.0	2590.2	4739.1	10200.9	18175.7	20170.1	20556.3
37.5°	1227.5	1291.0	1420.6	1577.8	2410.9	4474.3	10176.1	19243.2	21403.1	21850.0
40°	1164.1	1230.2	1348.9	1489.6	2231.6	4162.6	10189.9	20302.5	22716.2	23163.0
42.5°	1114.4	1188.9	1285.5	1464.8	2046.8	3911.6	10189.9	21223.8	23858.2	24288.5
45°	1073.0	1153.0	1246.8	1462.0	1900.6	3721.2	10120.9	22015.5	24768.5	25135.3
47.5°	1037.2	1125.5	1260.6	1412.4	1864.7	3583.2	10060.2	22649.9	25510.5	25855.3
50°	1012.3	1117.2	1340.7	1354.4	1875.8	3541.9	10352.6	23449.9	26164.3	26462.2
52.5°	993.1	1119.9	1337.8	1268.9	1856.5	3569.5	10962.2	24699.5	27071.8	27093.9
55°	954.4	1117.2	1268.9	1172.4	1776.5	3616.4	11745.6	26514.6	28492.4	28509.0
57.5°	915.8	1086.9	1177.9	1089.6	1613.7	3616.4	12689.1	28233.1	30205.5	30219.3
60°	877.2	1131.0	1034.4	1017.9	1401.3	3550.2	13684.9	28988.9	30743.3	30884.0
62.5°	838.6	1139.3	924.1	954.4	1246.8	3390.2	14426.9	28153.2	30015.1	30216.5
65°	794.4	918.6	852.4	888.2	1166.8	3122.6	14192.4	26622.2	28646.9	28886.9
67.5°	742.0	777.9	775.2	819.3	1139.3	2728.1	12956.6	24685.7	27173.9	27160.1
70°	678.6	697.9	706.2	753.1	1086.9	2422.0	10796.7	22172.8	25207.0	25516.0
72.5°	612.4	628.9	637.2	678.6	1034.4	2248.1	8380.3	18710.8	21833.4	22316.2
75°	540.7	551.7	562.7	598.6	979.3	1991.6	5969.4	14283.5	16722.0	17480.6
77.5°	466.2	466.2	480.0	515.8	824.8	1644.1	4005.4	10018.8	11329.1	12104.2
80°	377.9	380.7	375.1	413.7	606.9	1125.5	2275.8	6692.1	7539.0	7687.9
82.5°	289.6	281.3	284.2	303.4	452.4	766.9	1213.7	4157.0	4237.0	4154.3
85°	182.0	182.0	176.6	198.6	289.6	400.0	662.0	2546.1	1988.9	1892.4
87.5°	74.5	60.7	69.0	80.0	137.9	162.8	259.3	524.1	201.4	184.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)