

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: P651627

Luminaire Tested: **GALN-SA9D-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651627
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-SA9D-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA 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: 50839.3 lumens
Efficiency: N/A
Efficacy: 92.1 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

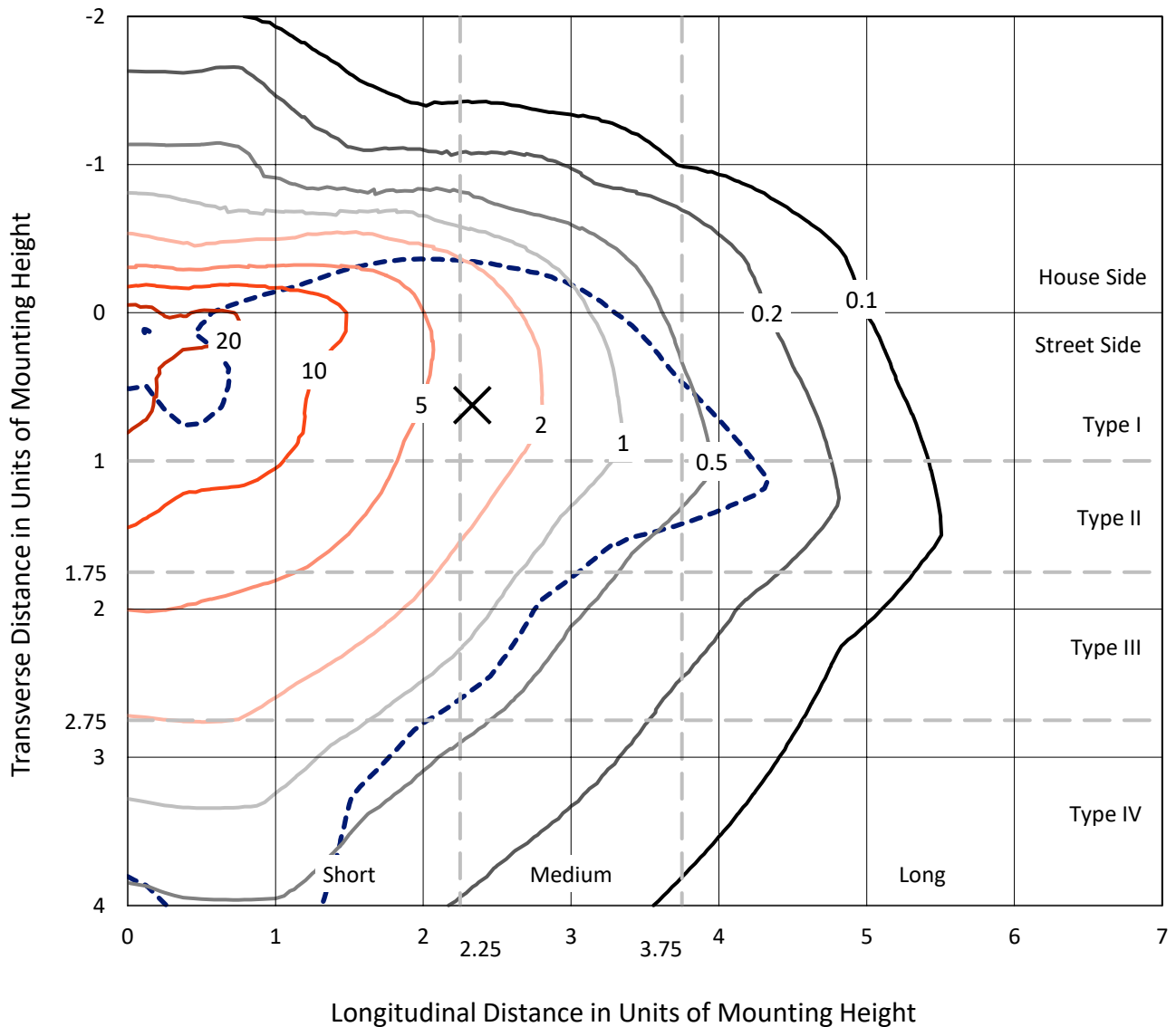
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

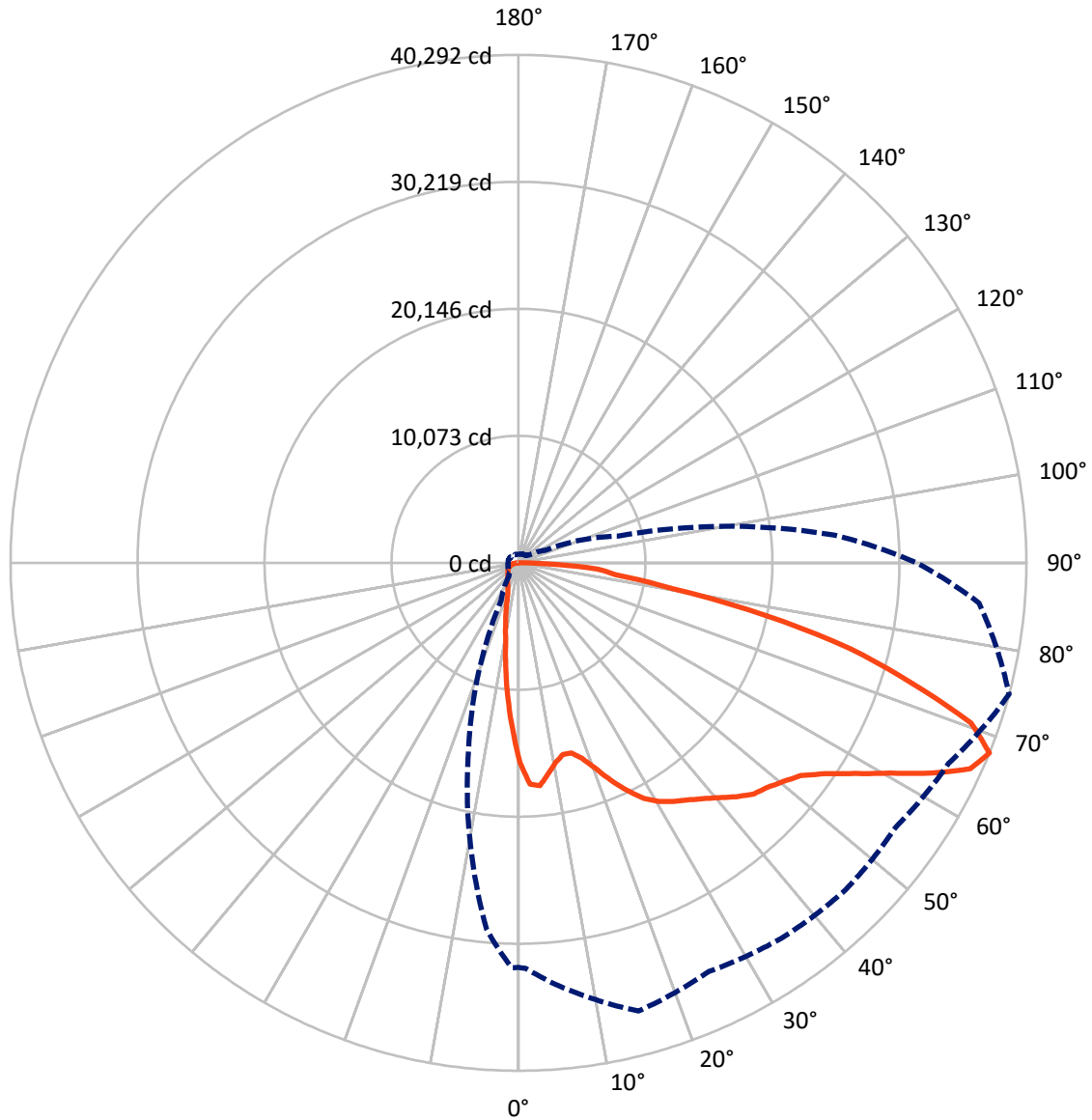
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.3 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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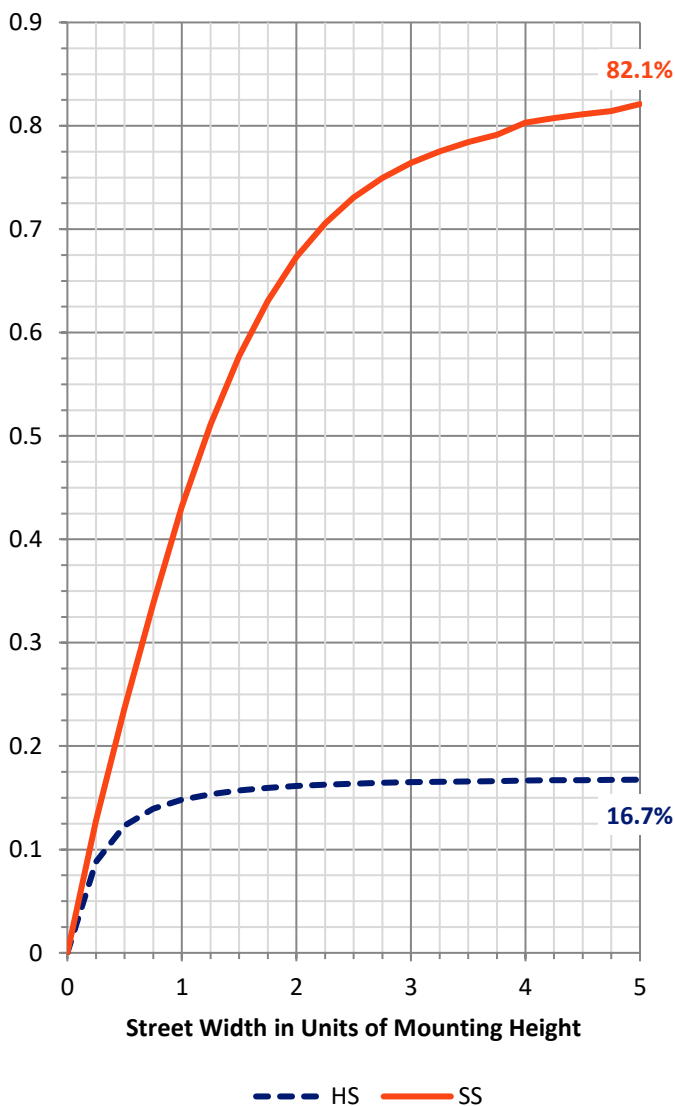
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8592.9	0.0	8592.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	42246.4	0.0	42246.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	50839.3	0.0	50839.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1204.7	2.4
10°-20°	2512.5	4.9
20°-30°	3615.5	7.1
30°-40°	5207.3	10.2
40°-50°	7314.8	14.4
50°-60°	10201.6	20.1
60°-70°	12129.0	23.9
70°-80°	7143.3	14.1
80°-90°	1510.5	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°	50839.3	100.0
0°-180°	50839.3	100.0

Coefficient of Utilization

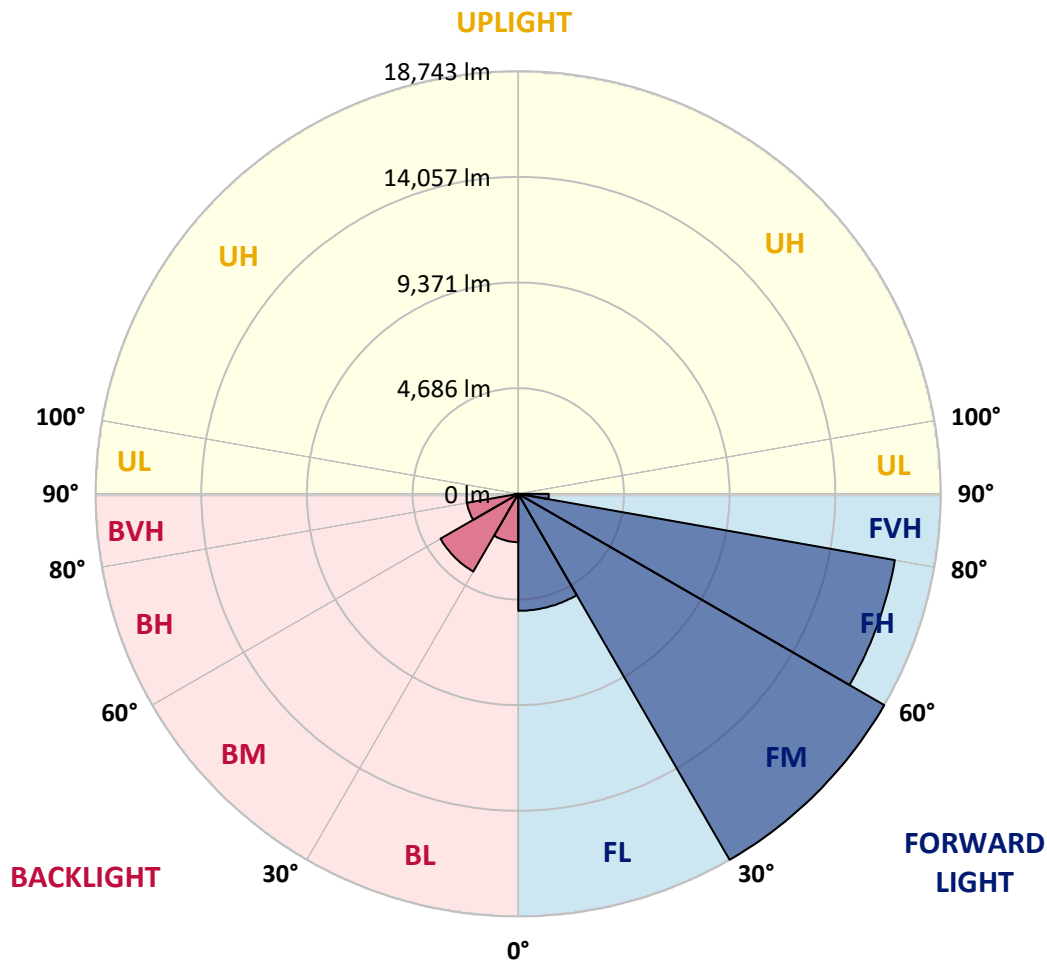


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5189.3	10.2			
FM (30°-60°)	18742.6	36.9			
FH (60°-80°)	16960.2	33.4			G5
FVH (80°-90°)	1354.3	2.7			G5
BL (0°-30°)	2143.4	4.2	B3/2500		
BM (30°-60°)	3981.1	7.8	B3/5000		
BH (60°-80°)	2312.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	156.2	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°	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4
2.5°	17125.5	17148.3	17295.0	17722.1	18015.6	18123.1	18198.1	18058.0	17921.0	17588.4	17086.4
5°	17073.3	17207.0	17588.4	18546.9	19303.3	19629.3	19727.1	19306.6	18612.2	17758.0	16731.0
7.5°	16075.7	16255.0	16841.9	18449.1	19782.5	20545.4	20444.4	19684.7	18432.8	16910.3	15475.9
10°	14892.3	15091.2	15798.6	17741.7	19459.7	20509.6	20509.6	19583.7	17921.0	16111.6	14458.7
12.5°	13953.4	14162.0	14970.6	17014.7	18788.2	19782.5	19948.8	19153.4	17552.6	15606.3	13790.4
15°	13643.7	13845.8	14716.2	16574.5	18077.5	18683.8	18739.2	18478.5	17373.3	15642.2	13761.0
17.5°	14028.4	14289.2	15169.5	16705.0	17425.4	17461.3	17503.6	17709.1	17392.8	16297.4	14354.4
20°	15140.1	15420.5	16339.8	17125.5	16854.9	16483.3	16506.1	17034.2	17624.3	17379.8	15772.5
22.5°	16744.1	16988.6	17930.8	17865.5	16613.7	15847.6	15687.8	16424.6	17966.6	18729.5	17282.0
25°	18475.2	18762.1	19844.5	18964.2	16682.2	15469.4	15368.3	16066.0	18321.9	19991.2	19026.2
27.5°	20457.4	20737.7	21591.9	20072.7	17040.8	15440.0	15319.4	16033.3	18641.4	21158.3	20692.1
30°	21930.9	22188.5	22768.8	21005.1	17480.9	15635.6	15485.7	16290.9	18915.4	21957.0	22315.7
32.5°	23088.3	23355.7	23671.9	21585.4	18061.1	15990.9	15713.8	16760.4	19274.0	22566.7	23518.6
35°	24294.6	24610.8	24588.0	22100.5	18602.3	16401.8	16131.1	17438.5	19837.9	23098.1	25044.4
37.5°	25823.6	25950.7	25787.7	22563.4	19251.2	17141.9	16991.8	18445.9	20639.9	23740.3	26827.6
40°	27375.4	27629.7	26791.8	23124.1	20040.1	18533.9	18517.6	19935.7	21591.9	24493.5	28555.6
42.5°	28705.5	28920.7	27730.7	23613.2	20995.3	20232.4	20356.3	21934.2	22840.6	25367.2	29944.4
45°	29706.4	29898.7	28598.0	24085.9	22253.7	22195.0	22925.3	24076.1	24415.2	26152.8	30759.4
47.5°	30557.3	30743.1	29201.0	24803.1	23808.8	24539.0	25810.5	26309.3	25761.6	26602.8	31672.2
50°	31274.5	31329.9	29615.1	25657.3	25738.8	27411.2	28643.6	28966.3	27091.7	27248.2	32464.5
52.5°	32021.1	31949.3	30329.1	26733.1	27825.3	30136.7	31033.2	31369.0	28366.5	28043.7	33618.6
55°	33693.6	33762.0	31929.8	28089.4	29934.6	32813.3	33993.5	33670.7	29778.1	29507.5	35085.6
57.5°	35714.8	35656.1	34182.5	30211.7	32083.1	35304.1	36184.3	35665.9	31662.5	31519.0	36572.2
60°	36500.5	36578.8	36067.0	32493.8	34202.1	37485.1	38384.8	37579.7	33921.7	33856.6	37693.7
62.5°	35711.6	36151.6	36497.3	34524.9	36008.3	39089.1	39982.3	39063.0	36278.8	36751.5	38479.5
65°	34140.1	34234.8	35411.7	36246.3	36878.7	39353.2	39819.3	39330.3	38247.9	39389.0	38443.5
67.5°	32099.3	32180.9	33559.9	36810.2	35757.2	36353.8	36679.8	36536.4	37638.3	40292.1	36673.3
70°	30156.3	30091.1	31548.3	35372.5	31127.8	30221.5	30492.1	30042.2	32477.5	38084.9	33201.3
72.5°	26374.5	26609.2	28174.1	31375.6	24646.7	23173.1	23763.1	22599.3	24979.2	32617.7	26948.3
75°	20659.5	20714.9	23326.3	26332.1	18592.6	16268.1	17066.8	16581.1	19133.8	27209.1	18608.9
77.5°	14305.5	14181.6	16988.6	20111.8	13259.0	11909.3	11922.4	11690.8	13360.0	20033.5	12642.8
80°	9086.0	8896.9	10634.6	12424.4	9112.1	9747.8	9428.3	9418.5	8698.0	12359.2	7645.0
82.5°	4909.8	5118.4	6719.2	7788.5	6536.6	7534.2	6904.9	6702.9	5969.3	7736.3	4890.2
85°	2236.5	2432.1	3582.9	5297.7	4965.2	5020.6	3354.7	3957.8	4939.1	6282.3	2611.4
87.5°	218.4	280.4	740.1	2500.5	1695.3	1336.7	498.8	961.8	1242.1	2233.2	208.7
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°	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4
2.5°	16881.0	16711.5	16134.4	15658.4	15153.1	14768.5	14266.4	13930.6	13699.1	13350.3	13307.9
5°	16105.1	15691.0	14686.9	13663.2	12779.8	12114.7	11439.8	10820.4	10455.2	10341.2	10194.4
7.5°	14797.7	14100.1	12809.1	11635.4	10621.5	9630.5	8867.6	8326.4	7964.5	7752.6	7498.4
10°	13721.9	12913.4	11342.1	9904.3	9069.7	8453.6	7781.9	7201.7	6755.0	6373.6	6165.0
12.5°	12998.2	12085.3	10318.3	9151.2	8505.7	7850.4	7064.7	6412.7	5754.1	5320.6	5134.7
15°	12779.8	11814.7	10002.1	8776.3	7850.4	6993.0	6112.7	5261.9	4609.9	4199.0	4062.1
17.5°	13314.4	12147.3	9998.8	8277.5	7081.1	6057.3	4929.4	4130.6	3462.2	3155.9	3058.0
20°	14312.0	12786.2	10028.2	7785.2	6246.4	4805.5	3586.2	2930.9	2611.4	2481.0	2432.1
22.5°	15704.1	13761.0	10116.2	7299.5	5333.6	3690.5	2686.3	2353.8	2239.8	2216.9	2207.1
25°	17419.0	14967.3	10412.9	6862.6	4564.2	2816.8	2246.2	2096.3	2031.1	2008.2	2004.9
27.5°	18996.8	16525.6	10771.5	6487.6	3820.9	2428.8	2031.1	1903.9	1838.7	1835.5	1842.0
30°	20421.5	17829.7	11071.4	6067.1	3256.9	2158.2	1890.9	1763.7	1701.8	1698.6	1718.1
32.5°	21653.8	18902.3	11293.1	5653.1	2943.9	1991.9	1763.7	1626.8	1574.7	1564.8	1574.7
35°	22970.9	19971.6	11192.0	5330.3	2764.6	1855.0	1669.2	1535.5	1473.6	1444.2	1444.2
37.5°	24473.9	21073.5	11019.3	5063.0	2683.1	1741.0	1587.7	1457.3	1395.3	1366.0	1362.8
40°	26113.7	22175.5	10781.3	4825.0	2601.5	1672.4	1532.3	1395.3	1320.4	1291.0	1284.5
42.5°	27561.3	23117.7	10585.7	4668.6	2467.9	1685.5	1483.4	1349.7	1255.2	1216.0	1212.8
45°	28819.6	24066.3	10549.8	4577.2	2357.1	1665.9	1470.3	1313.8	1203.0	1160.6	1154.1
47.5°	29804.2	25054.1	10755.2	4525.1	2236.5	1561.6	1555.1	1291.0	1157.4	1111.7	1105.2
50°	31003.9	26456.0	11224.7	4417.5	2125.6	1463.8	1643.1	1287.7	1121.5	1062.8	1046.5
52.5°	32601.4	28281.7	11860.4	4225.1	1965.8	1372.5	1568.1	1287.7	1079.1	1020.4	1000.9
55°	35017.1	30609.5	12483.0	3954.6	1741.0	1251.9	1414.9	1248.6	1017.2	965.0	951.9
57.5°	36617.9	32311.2	12880.8	3579.6	1460.6	1163.9	1219.3	1186.7	955.2	899.8	899.8
60°	36699.4	32767.6	12691.7	3106.9	1284.5	1082.4	1059.6	1196.5	899.8	841.1	834.6
62.5°	35760.5	31649.4	11707.1	2683.1	1189.9	994.3	958.5	1049.7	844.4	785.7	775.9
65°	34293.4	28796.8	9998.8	2481.0	1137.8	916.1	864.0	860.7	785.7	730.2	717.2
67.5°	31597.3	25165.0	8215.6	2363.6	1111.7	828.0	779.2	762.9	717.2	671.6	665.1
70°	27623.1	21076.8	6588.7	2314.7	1098.7	736.8	697.7	678.1	639.0	603.2	599.9
72.5°	21490.8	17096.2	5437.9	2282.1	1092.1	652.0	609.6	583.6	560.8	528.1	528.1
75°	15436.7	12577.6	4150.2	2057.2	1010.6	560.8	515.1	498.8	466.2	440.1	446.7
77.5°	9731.5	8469.9	2732.0	1512.7	782.5	449.9	410.7	401.0	374.9	339.1	361.9
80°	6572.4	5956.3	1594.2	951.9	492.3	329.3	316.2	312.9	283.7	244.5	247.8
82.5°	4472.9	4388.2	828.0	541.2	283.7	192.3	185.9	192.3	159.7	130.4	130.4
85°	1747.4	2386.4	391.2	211.9	91.2	29.4	42.4	45.7	26.1	13.0	16.3
87.5°	32.6	244.5	9.8	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°	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4
2.5°	13242.7	13213.4	13262.2	13053.6	13096.0	13174.2	13213.4	13236.2	13558.9	13483.9	13689.3
5°	10331.3	10302.0	10491.1	10517.2	10615.0	10595.4	10690.0	10712.8	10830.1	10872.5	11159.5
7.5°	7514.6	7641.7	7857.0	7967.8	8134.1	8186.2	8137.3	8257.9	8013.4	8189.5	8241.6
10°	6037.8	5884.6	5793.2	6047.5	6080.2	6321.4	6223.6	6145.4	6288.8	6295.3	6432.2
12.5°	5027.2	4697.8	4479.4	4551.2	4629.4	4733.7	4750.1	4906.5	5010.8	5108.7	5190.1
15°	3941.5	3827.4	3628.5	3530.8	3641.6	3683.9	3785.0	3915.4	4026.3	4055.6	4166.5
17.5°	3025.4	3045.0	3012.4	2953.7	3022.1	3054.8	3061.2	3064.5	3093.9	3074.3	3237.3
20°	2435.3	2503.8	2585.3	2598.4	2621.1	2637.5	2608.1	2497.3	2500.5	2569.0	2621.1
22.5°	2203.8	2216.9	2308.2	2337.6	2409.2	2379.9	2295.2	2242.9	2236.5	2252.8	2278.9
25°	2021.3	2040.9	2106.0	2151.7	2207.1	2155.0	2093.0	2044.1	2037.6	2053.9	2080.0
27.5°	1858.3	1887.6	1946.3	1991.9	2044.1	1995.2	1936.5	1894.1	1890.9	1887.6	1903.9
30°	1727.8	1760.5	1802.9	1855.0	1890.9	1848.5	1793.1	1770.2	1767.0	1760.5	1767.0
32.5°	1597.5	1649.6	1692.0	1718.1	1754.0	1721.4	1679.0	1665.9	1643.1	1623.6	1613.8
35°	1450.7	1506.1	1571.4	1604.0	1639.9	1607.2	1577.9	1522.5	1483.4	1480.1	1486.6
37.5°	1366.0	1388.8	1441.0	1496.4	1532.3	1516.0	1460.6	1405.1	1395.3	1395.3	1401.9
40°	1291.0	1300.8	1323.6	1395.3	1460.6	1411.6	1343.2	1326.8	1326.8	1323.6	1326.8
42.5°	1216.0	1225.8	1225.8	1281.3	1385.5	1307.3	1255.2	1255.2	1255.2	1258.4	1268.2
45°	1147.5	1150.8	1147.5	1186.7	1284.5	1219.3	1183.5	1193.2	1199.8	1206.2	1212.8
47.5°	1088.9	1092.1	1088.9	1121.5	1170.4	1144.3	1124.8	1137.8	1150.8	1160.6	1167.1
50°	1036.7	1033.5	1040.0	1059.6	1082.4	1088.9	1075.8	1095.4	1102.0	1115.0	1131.2
52.5°	991.1	987.8	994.3	1004.2	1036.7	1036.7	1036.7	1053.0	1066.1	1079.1	1102.0
55°	938.9	942.2	951.9	965.0	1007.3	1000.9	1004.2	1017.2	1030.2	1049.7	1062.8
57.5°	890.0	896.5	909.5	929.1	971.5	968.2	971.5	978.1	994.3	1004.2	1017.2
60°	834.6	847.6	864.0	877.0	919.4	916.1	932.4	945.5	955.2	955.2	961.8
62.5°	779.2	798.7	815.0	824.9	870.4	873.7	896.5	906.3	912.8	906.3	916.1
65°	723.8	753.1	759.6	772.6	818.3	821.6	847.6	870.4	864.0	857.4	873.7
67.5°	668.3	704.2	700.9	717.2	762.9	769.4	792.2	831.3	818.3	811.7	824.9
70°	606.4	632.4	635.7	645.5	707.4	697.7	733.5	769.4	759.6	762.9	762.9
72.5°	537.9	560.8	560.8	580.3	645.5	629.2	658.6	697.7	697.7	694.4	694.4
75°	456.4	469.4	482.5	511.8	580.3	560.8	580.3	616.2	622.7	616.2	616.2
77.5°	368.4	388.0	394.5	433.6	482.5	479.2	498.8	515.1	528.1	521.6	521.6
80°	260.8	280.4	306.5	348.8	378.2	388.0	397.7	410.7	417.3	417.3	423.8
82.5°	146.7	176.0	198.9	241.3	254.3	303.2	299.9	309.7	299.9	264.1	293.4
85°	32.6	62.0	88.1	110.8	127.2	176.0	185.9	208.7	172.8	159.7	159.7
87.5°	0.0	0.0	0.0	0.0	0.0	26.1	52.1	71.7	62.0	52.1	52.1
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°	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4	15883.4
2.5°	13862.1	14145.7	14488.1	15078.1	15492.1	15938.8	16388.7	16867.9	16995.1	17125.5
5°	11237.7	11795.2	12098.4	12890.6	13721.9	14778.2	15642.2	16587.5	16982.1	17073.3
7.5°	8512.2	8890.4	9685.9	10487.9	11518.1	12626.5	13950.2	15423.7	15883.4	16075.7
10°	6748.5	7263.5	7961.2	8821.9	9725.0	10918.2	12411.3	14132.7	14784.7	14892.3
12.5°	5744.4	6318.2	7077.8	7987.3	8841.5	9741.3	11247.4	13024.2	13721.9	13953.4
15°	4593.5	5288.0	6165.0	7123.4	8052.6	9037.1	10562.9	12567.8	13373.1	13643.7
17.5°	3609.0	4169.7	5118.4	6158.4	7260.4	8505.7	10419.4	12786.2	13777.3	14028.4
20°	2761.3	3162.3	3961.1	5059.7	6350.7	7980.8	10455.2	13611.1	14797.7	15140.1
22.5°	2386.4	2591.8	3077.6	4124.1	5568.3	7524.4	10602.0	14742.3	16173.5	16744.1
25°	2161.5	2269.0	2542.9	3227.5	4821.7	7081.1	10937.8	16264.9	18097.1	18475.2
27.5°	1969.1	2047.3	2216.9	2709.2	4143.6	6670.2	11328.9	17953.6	19893.4	20457.4
30°	1786.5	1890.9	2050.6	2406.0	3710.1	6295.3	11821.3	19322.8	21406.1	21930.9
32.5°	1646.3	1750.7	1897.4	2194.1	3341.6	5900.9	12114.7	20525.9	22641.7	23088.3
35°	1532.3	1620.3	1773.5	2024.5	3061.2	5600.9	12056.0	21481.1	23838.1	24294.6
37.5°	1450.7	1525.7	1679.0	1864.8	2849.4	5288.0	12026.6	22742.7	25295.4	25823.6
40°	1375.8	1454.0	1594.2	1760.5	2637.5	4919.5	12043.0	23994.7	26847.2	27375.4
42.5°	1317.1	1405.1	1519.3	1731.1	2419.1	4622.9	12043.0	25083.5	28197.0	28705.5
45°	1268.2	1362.8	1473.6	1727.8	2246.2	4397.9	11961.5	26019.2	29272.8	29706.4
47.5°	1225.8	1330.1	1489.9	1669.2	2203.8	4234.9	11889.7	26769.0	30149.8	30557.3
50°	1196.5	1320.4	1584.4	1600.8	2216.9	4186.0	12235.3	27714.5	30922.4	31274.5
52.5°	1173.6	1323.6	1581.2	1499.7	2194.1	4218.6	12955.8	29191.3	31995.0	32021.1
55°	1128.0	1320.4	1499.7	1385.5	2099.6	4274.0	13881.7	31336.4	33674.0	33693.6
57.5°	1082.4	1284.5	1392.1	1287.7	1907.2	4274.0	14996.6	33367.5	35698.5	35714.8
60°	1036.7	1336.7	1222.6	1203.0	1656.2	4195.8	16173.5	34260.8	36334.2	36500.5
62.5°	991.1	1346.4	1092.1	1128.0	1473.6	4006.7	17050.5	33273.0	35473.5	35711.6
65°	938.9	1085.6	1007.3	1049.7	1379.1	3690.5	16773.4	31463.6	33856.6	34140.1
67.5°	877.0	919.4	916.1	968.2	1346.4	3224.3	15312.8	29175.0	32115.6	32099.3
70°	802.0	824.9	834.6	890.0	1284.5	2862.4	12760.2	26205.0	29791.2	30156.3
72.5°	723.8	743.3	753.1	802.0	1222.6	2657.0	9904.3	22113.5	25804.0	26374.5
75°	639.0	652.0	665.1	707.4	1157.4	2353.8	7055.0	16881.0	19763.0	20659.5
77.5°	550.9	550.9	567.3	609.6	974.8	1943.0	4733.7	11840.9	13389.4	14305.5
80°	446.7	449.9	443.4	489.0	717.2	1330.1	2689.6	7909.1	8910.0	9086.0
82.5°	342.3	332.5	335.8	358.6	534.6	906.3	1434.5	4913.0	5007.6	4909.8
85°	215.1	215.1	208.7	234.7	342.3	472.7	782.5	3009.1	2350.6	2236.5
87.5°	88.1	71.7	81.5	94.5	163.0	192.3	306.5	619.4	238.0	218.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)