

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: P651462

Luminaire Tested: **GALN-SA6D-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651462
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-SA6D-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 33254.8 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

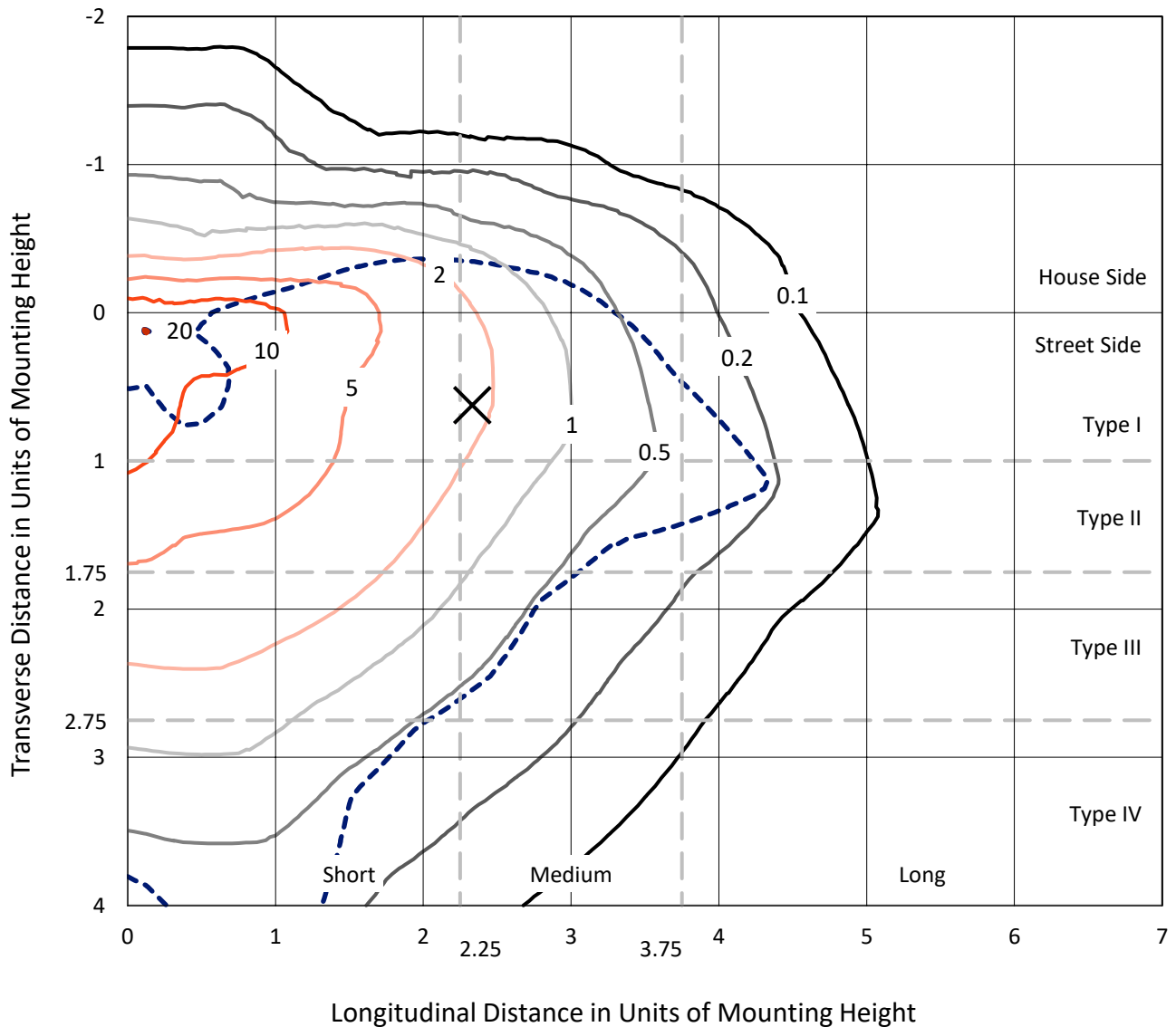
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

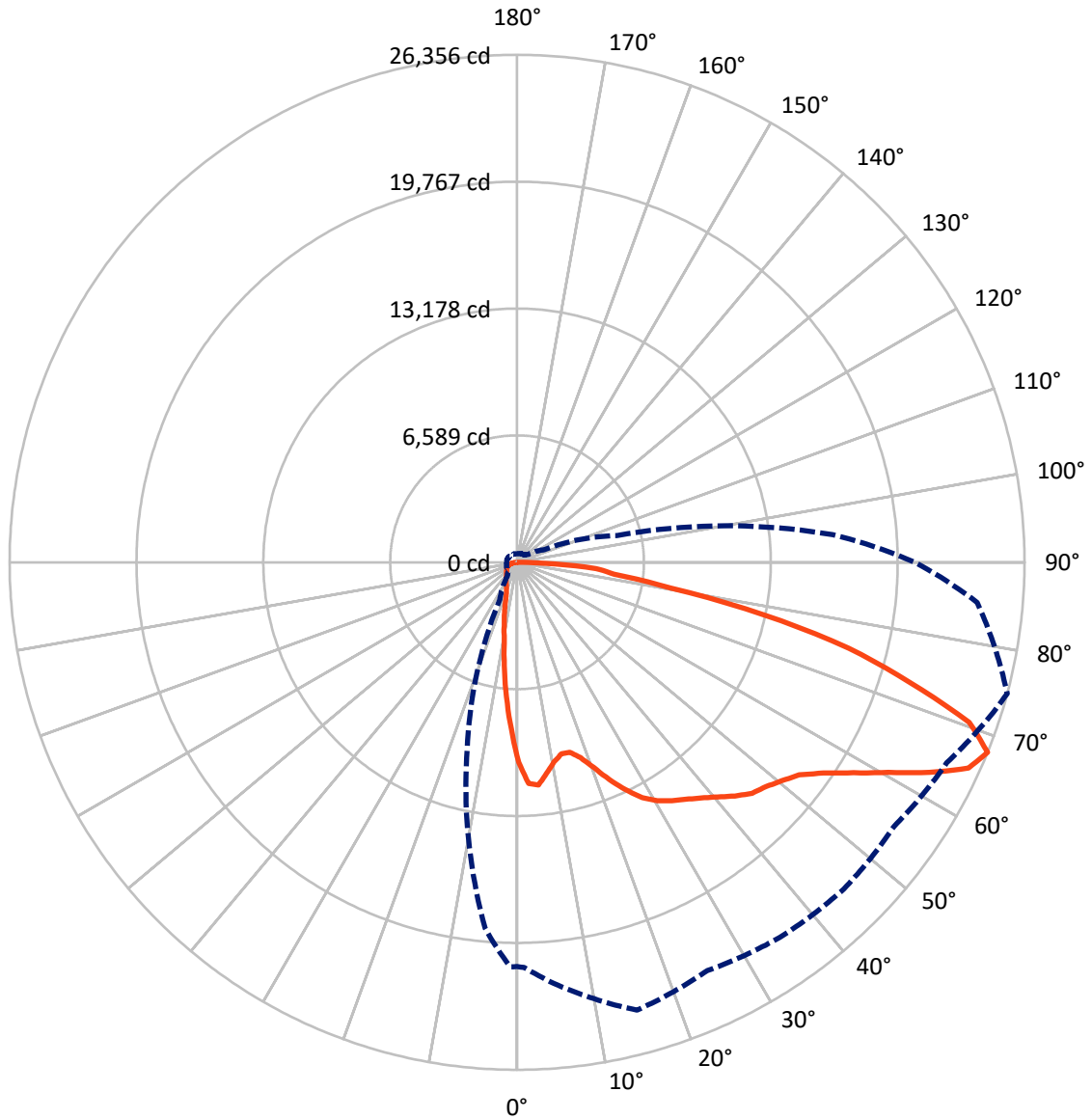
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 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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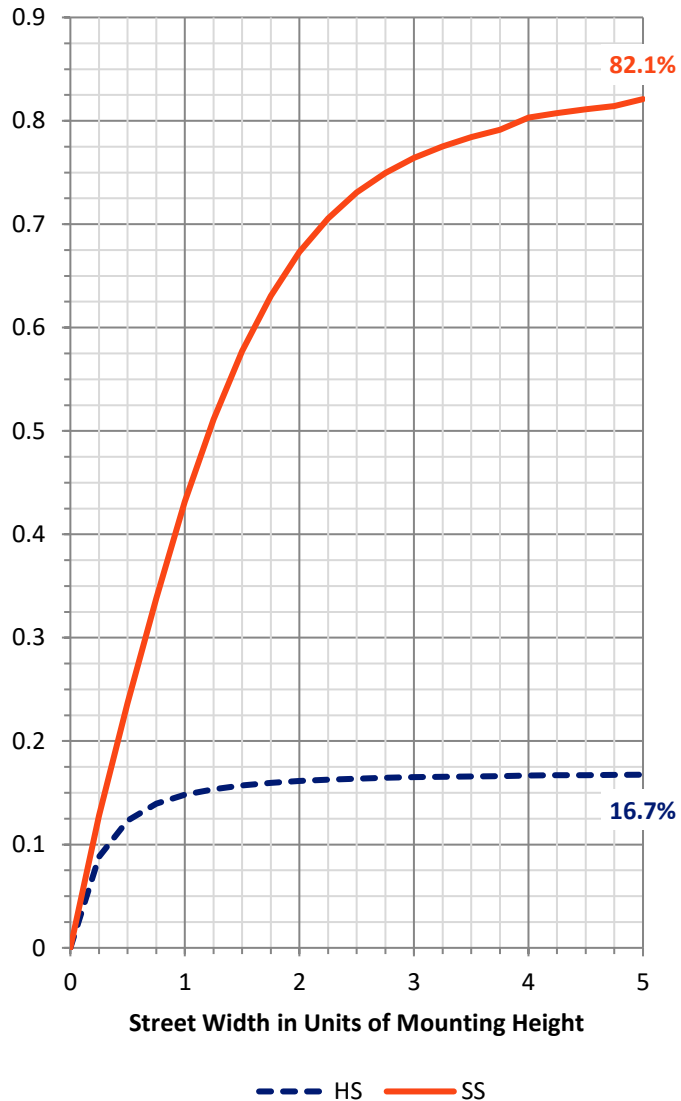
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5620.8	0.0	5620.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	27634.1	0.0	27634.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	33254.8	0.0	33254.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	788.0	2.4
10°-20°	1643.4	4.9
20°-30°	2364.9	7.1
30°-40°	3406.2	10.2
40°-50°	4784.7	14.4
50°-60°	6673.0	20.1
60°-70°	7933.8	23.9
70°-80°	4672.6	14.1
80°-90°	988.1	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°	33254.8	100.0
0°-180°	33254.8	100.0

Coefficient of Utilization

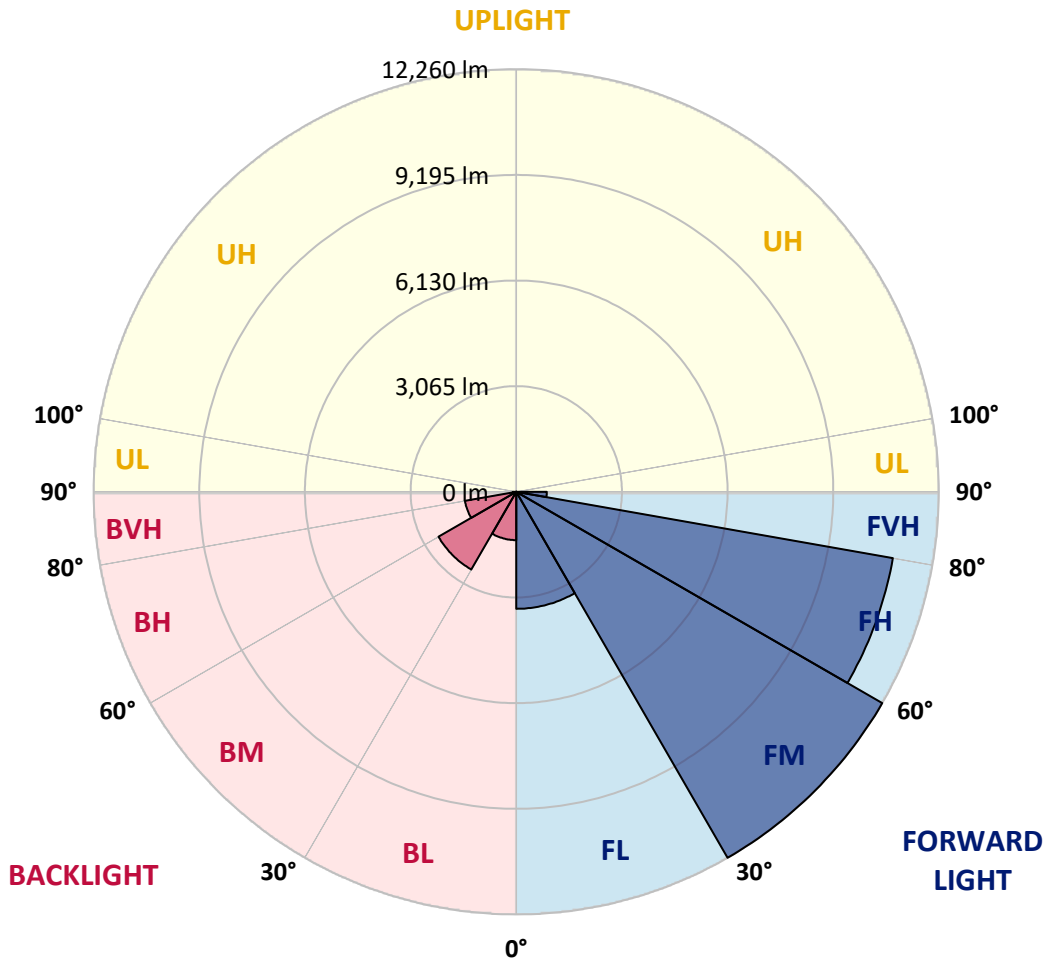


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3394.4	10.2			
FM (30°-60°)	12259.8	36.9			
FH (60°-80°)	11093.9	33.4			G4/12000
FVH (80°-90°)	885.9	2.7			G5
BL (0°-30°)	1402.0	4.2	B3/2500		
BM (30°-60°)	2604.1	7.8	B3/5000		
BH (60°-80°)	1512.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	102.2	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°	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6
2.5°	11202.1	11217.0	11313.0	11592.3	11784.3	11854.7	11903.7	11812.0	11722.4	11504.9	11176.5
5°	11168.0	11255.4	11504.9	12131.8	12626.6	12839.9	12903.8	12628.7	12174.5	11615.8	10944.0
7.5°	10515.4	10632.7	11016.5	12067.8	12940.0	13439.1	13373.0	12876.1	12057.2	11061.3	10123.0
10°	9741.3	9871.4	10334.1	11605.1	12729.0	13415.6	13415.6	12810.0	11722.4	10538.9	9457.7
12.5°	9127.1	9263.6	9792.5	11129.5	12289.7	12940.0	13048.9	12528.5	11481.4	10208.3	9020.5
15°	8924.5	9056.8	9626.2	10841.7	11824.8	12221.4	12257.7	12087.1	11364.2	10231.8	9001.3
17.5°	9176.2	9346.8	9922.5	10926.9	11398.2	11421.7	11449.5	11583.8	11377.0	10660.4	9389.4
20°	9903.4	10086.8	10688.2	11202.1	11025.1	10782.0	10796.9	11142.4	11528.3	11368.4	10317.1
22.5°	10952.6	11112.6	11728.8	11686.2	10867.2	10366.2	10261.6	10743.6	11752.3	12251.3	11304.5
25°	12084.9	12272.6	12980.6	12404.8	10912.1	10118.7	10052.6	10509.1	11984.7	13076.5	12445.4
27.5°	13381.5	13564.9	14123.6	13129.9	11146.6	10099.6	10020.7	10487.7	12193.7	13840.0	13535.1
30°	14345.4	14513.9	14893.4	13739.8	11434.5	10227.5	10129.4	10656.1	12372.8	14362.4	14597.1
32.5°	15102.4	15277.3	15484.2	14119.4	11814.1	10459.9	10278.7	10963.3	12607.4	14761.2	15383.9
35°	15891.5	16098.3	16083.4	14456.3	12168.1	10728.6	10551.7	11406.8	12976.3	15108.8	16381.9
37.5°	16891.7	16974.8	16868.2	14759.1	12592.5	11212.7	11114.7	12065.7	13500.9	15529.0	17548.5
40°	17906.7	18073.0	17525.0	15125.9	13108.6	12123.4	12112.7	13040.3	14123.6	16021.6	18678.7
42.5°	18776.8	18917.5	18139.1	15445.8	13733.4	13234.4	13315.4	14347.5	14940.4	16593.1	19587.1
45°	19431.5	19557.3	18706.4	15755.0	14556.5	14518.1	14995.8	15748.6	15970.3	17107.0	20120.3
47.5°	19988.0	20109.6	19100.9	16224.2	15573.7	16051.4	16883.1	17209.4	16851.1	17401.3	20717.4
50°	20457.2	20493.4	19371.8	16782.8	16836.1	17930.1	18736.2	18947.4	17721.1	17823.6	21235.5
52.5°	20945.5	20898.6	19838.8	17486.6	18201.0	19713.0	20299.4	20519.1	18555.0	18343.9	21990.5
55°	22039.5	22084.3	20885.8	18373.7	19580.8	21463.7	22235.7	22024.6	19478.3	19301.4	22950.0
57.5°	23361.6	23323.3	22359.4	19762.0	20986.1	23092.9	23668.8	23329.7	20711.0	20617.1	23922.5
60°	23875.6	23926.8	23592.0	21254.8	22372.2	24519.6	25108.2	24581.4	22188.8	22146.1	24656.1
62.5°	23359.5	23647.4	23873.5	22583.3	23553.6	25568.8	26153.1	25551.8	23730.6	24039.8	25170.0
65°	22331.7	22393.5	23163.3	23709.2	24123.0	25741.6	26046.5	25726.6	25018.7	25765.0	25146.6
67.5°	20996.7	21050.0	21952.0	24078.2	23389.4	23779.6	23992.9	23899.0	24619.9	26355.7	23988.6
70°	19725.7	19683.1	20636.3	23137.8	20361.2	19768.4	19945.4	19651.1	21244.1	24912.0	21717.5
72.5°	17252.0	17405.6	18429.2	20523.3	16121.8	15157.8	15543.9	14782.6	16339.3	21335.7	17627.4
75°	13513.7	13549.9	15258.1	17224.3	12161.7	10641.3	11163.7	10846.0	12515.7	17797.9	12172.4
77.5°	9357.5	9276.4	11112.6	13155.4	8672.9	7790.1	7798.6	7647.2	8739.0	13104.3	8269.9
80°	5943.3	5819.6	6956.2	8127.0	5960.3	6376.2	6167.2	6160.8	5689.5	8084.4	5000.8
82.5°	3211.5	3348.0	4395.1	5094.6	4275.6	4928.3	4516.7	4384.5	3904.6	5060.5	3198.7
85°	1462.9	1590.8	2343.6	3465.3	3247.8	3284.1	2194.3	2588.9	3230.8	4109.4	1708.2
87.5°	142.9	183.4	484.1	1635.7	1108.9	874.3	326.3	629.1	812.5	1460.7	136.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6
2.5°	11042.2	10931.2	10553.8	10242.5	9911.9	9660.3	9331.9	9112.2	8960.8	8732.6	8704.9
5°	10534.6	10263.8	9607.0	8937.4	8359.5	7924.4	7483.0	7077.8	6838.9	6764.3	6668.4
7.5°	9679.5	9223.1	8378.6	7611.0	6947.8	6299.4	5800.5	5446.4	5209.7	5071.1	4904.8
10°	8975.7	8446.8	7419.0	6478.6	5932.7	5529.6	5090.3	4710.7	4418.5	4169.1	4032.6
12.5°	8502.3	7905.2	6749.4	5986.0	5563.7	5135.1	4621.1	4194.7	3763.9	3480.2	3358.7
15°	8359.5	7728.2	6542.6	5740.8	5135.1	4574.2	3998.5	3441.9	3015.4	2746.7	2657.1
17.5°	8709.1	7945.8	6540.4	5414.4	4631.8	3962.2	3224.4	2701.9	2264.7	2064.2	2000.3
20°	9361.8	8363.7	6559.6	5092.4	4085.9	3143.3	2345.8	1917.1	1708.2	1622.9	1590.8
22.5°	10272.3	9001.3	6617.2	4774.7	3488.8	2414.0	1757.2	1539.7	1465.0	1450.1	1443.7
25°	11394.0	9790.3	6811.3	4488.9	2985.5	1842.5	1469.3	1371.2	1328.5	1313.6	1311.5
27.5°	12426.1	10809.7	7045.8	4243.7	2499.3	1588.7	1328.5	1245.4	1202.7	1200.6	1204.9
30°	13358.0	11662.7	7242.0	3968.6	2130.3	1411.7	1236.9	1153.7	1113.1	1111.0	1123.8
32.5°	14164.1	12364.3	7387.0	3697.8	1925.6	1303.0	1153.7	1064.1	1030.0	1023.6	1030.0
35°	15025.6	13063.8	7320.9	3486.6	1808.4	1213.4	1091.9	1004.4	963.9	944.7	944.7
37.5°	16008.8	13784.6	7207.9	3311.8	1755.1	1138.8	1038.6	953.3	912.7	893.6	891.4
40°	17081.4	14505.3	7052.2	3156.1	1701.8	1094.0	1002.3	912.7	863.7	844.4	840.2
42.5°	18028.3	15121.6	6924.3	3053.8	1614.3	1102.5	970.3	882.9	821.0	795.4	793.3
45°	18851.4	15742.2	6900.8	2994.0	1541.8	1089.7	961.8	859.4	786.9	759.2	754.9
47.5°	19495.4	16388.3	7035.1	2959.9	1462.9	1021.5	1017.2	844.4	757.1	727.2	722.9
50°	20280.2	17305.3	7342.3	2889.6	1390.4	957.5	1074.8	842.3	733.6	695.2	684.6
52.5°	21325.1	18499.6	7758.1	2763.7	1285.9	897.8	1025.8	842.3	705.9	667.5	654.7
55°	22905.3	20022.1	8165.4	2586.7	1138.8	818.9	925.5	816.8	665.3	631.3	622.7
57.5°	23952.4	21135.3	8425.6	2341.5	955.4	761.3	797.5	776.2	624.9	588.5	588.5
60°	24005.7	21433.9	8301.8	2032.3	840.2	708.0	693.1	782.6	588.5	550.2	545.9
62.5°	23391.5	20702.4	7657.8	1755.1	778.3	650.4	627.0	686.7	552.3	513.9	507.5
65°	22431.9	18836.5	6540.4	1622.9	744.3	599.2	565.2	563.0	513.9	477.7	469.2
67.5°	20668.3	16460.9	5373.9	1546.1	727.2	541.7	509.6	499.0	469.2	439.3	435.0
70°	18068.8	13786.7	4309.8	1514.1	718.6	482.0	456.3	443.5	418.0	394.5	392.4
72.5°	14057.5	11182.9	3557.0	1492.8	714.4	426.5	398.8	381.7	366.8	345.5	345.5
75°	10097.5	8227.3	2714.7	1345.6	661.1	366.8	336.9	326.3	304.9	287.9	292.2
77.5°	6365.5	5540.3	1787.0	989.5	511.8	294.3	268.7	262.3	245.2	221.8	236.7
80°	4299.1	3896.1	1042.8	622.7	322.0	215.4	206.9	204.7	185.5	160.0	162.1
82.5°	2925.8	2870.3	541.7	354.0	185.5	125.8	121.5	125.8	104.5	85.3	85.3
85°	1143.0	1561.0	255.9	138.6	59.7	19.2	27.8	29.9	17.1	8.5	10.7
87.5°	21.4	160.0	6.4	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°	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6
2.5°	8662.3	8643.0	8675.1	8538.6	8566.3	8617.5	8643.0	8658.0	8869.1	8820.1	8954.4
5°	6757.9	6738.8	6862.4	6879.5	6943.5	6930.7	6992.5	7007.5	7084.2	7111.9	7299.5
7.5°	4915.5	4998.6	5139.4	5211.8	5320.6	5354.7	5322.8	5401.7	5241.7	5356.8	5391.0
10°	3949.4	3849.2	3789.5	3955.8	3977.2	4134.9	4070.9	4019.8	4113.6	4117.9	4207.4
12.5°	3288.3	3072.9	2930.0	2977.0	3028.2	3096.4	3107.1	3209.4	3277.6	3341.6	3394.9
15°	2578.2	2503.6	2373.5	2309.5	2382.0	2409.7	2475.8	2561.2	2633.7	2652.9	2725.3
17.5°	1979.0	1991.7	1970.5	1932.0	1976.9	1998.1	2002.4	2004.5	2023.8	2011.0	2117.6
20°	1593.0	1637.8	1691.1	1699.6	1714.5	1725.2	1706.0	1633.5	1635.7	1680.4	1714.5
22.5°	1441.6	1450.1	1509.8	1529.0	1575.9	1556.7	1501.3	1467.2	1462.9	1473.6	1490.6
25°	1322.1	1334.9	1377.6	1407.5	1443.7	1409.6	1369.1	1337.1	1332.8	1343.5	1360.6
27.5°	1215.5	1234.8	1273.1	1303.0	1337.1	1305.1	1266.7	1239.0	1236.9	1234.8	1245.4
30°	1130.2	1151.6	1179.3	1213.4	1236.9	1209.1	1172.9	1158.0	1155.8	1151.6	1155.8
32.5°	1044.9	1079.1	1106.8	1123.8	1147.3	1125.9	1098.3	1089.7	1074.8	1062.0	1055.6
35°	949.0	985.2	1027.9	1049.2	1072.6	1051.3	1032.2	995.9	970.3	968.2	972.4
37.5°	893.6	908.4	942.6	978.8	1002.3	991.6	955.4	919.1	912.7	912.7	916.9
40°	844.4	850.8	865.8	912.7	955.4	923.4	878.6	867.9	867.9	865.8	867.9
42.5°	795.4	801.8	801.8	838.1	906.3	855.1	821.0	821.0	821.0	823.2	829.6
45°	750.7	752.8	750.7	776.2	840.2	797.5	774.1	780.5	784.7	789.0	793.3
47.5°	712.2	714.4	712.2	733.6	765.6	748.5	735.7	744.3	752.8	759.2	763.5
50°	678.1	676.0	680.3	693.1	708.0	712.2	703.7	716.5	720.8	729.3	740.0
52.5°	648.2	646.1	650.4	656.8	678.1	678.1	678.1	688.8	697.4	705.9	720.8
55°	614.2	616.3	622.7	631.3	658.9	654.7	656.8	665.3	673.9	686.7	695.2
57.5°	582.1	586.4	595.0	607.8	635.5	633.4	635.5	639.7	650.4	656.8	665.3
60°	545.9	554.5	565.2	573.6	601.4	599.2	609.9	618.4	624.9	624.9	629.1
62.5°	509.6	522.4	533.1	539.5	569.4	571.5	586.4	592.8	597.1	592.8	599.2
65°	473.4	492.6	496.9	505.4	535.3	537.4	554.5	569.4	565.2	560.9	571.5
67.5°	437.2	460.6	458.5	469.2	499.0	503.3	518.2	543.8	535.3	531.0	539.5
70°	396.6	413.7	415.9	422.3	462.7	456.3	479.8	503.3	496.9	499.0	499.0
72.5°	351.9	366.8	366.8	379.6	422.3	411.6	430.8	456.3	456.3	454.2	454.2
75°	298.6	307.0	315.6	334.8	379.6	366.8	379.6	403.0	407.3	403.0	403.0
77.5°	240.9	253.7	258.0	283.6	315.6	313.4	326.3	336.9	345.5	341.2	341.2
80°	170.6	183.4	200.5	228.2	247.3	253.7	260.2	268.7	273.0	273.0	277.2
82.5°	96.0	115.1	130.1	157.8	166.3	198.3	196.2	202.6	196.2	172.7	191.9
85°	21.4	40.5	57.6	72.5	83.2	115.1	121.5	136.5	113.0	104.5	104.5
87.5°	0.0	0.0	0.0	0.0	0.0	17.1	34.1	46.9	40.5	34.1	34.1
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°	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6	10389.6
2.5°	9067.4	9252.9	9476.9	9862.8	10133.7	10425.9	10720.1	11033.6	11116.8	11202.1
5°	7350.8	7715.4	7913.7	8432.0	8975.7	9666.7	10231.8	10850.2	11108.3	11168.0
7.5°	5568.0	5815.3	6335.7	6860.3	7534.2	8259.2	9125.0	10088.9	10389.6	10515.4
10°	4414.3	4751.2	5207.6	5770.6	6361.2	7141.8	8118.5	9244.4	9670.9	9741.3
12.5°	3757.5	4132.8	4629.7	5224.6	5783.4	6371.9	7357.2	8519.4	8975.7	9127.1
15°	3004.7	3458.9	4032.6	4659.6	5267.3	5911.3	6909.3	8220.9	8747.6	8924.5
17.5°	2360.7	2727.4	3348.0	4028.3	4749.1	5563.7	6815.5	8363.7	9012.0	9176.2
20°	1806.2	2068.5	2591.0	3309.7	4154.1	5220.4	6838.9	8903.2	9679.5	9903.4
22.5°	1561.0	1695.4	2013.1	2697.6	3642.3	4921.9	6934.9	9643.2	10579.4	10952.6
25°	1413.9	1484.2	1663.3	2111.2	3154.0	4631.8	7154.6	10639.1	11837.6	12084.9
27.5°	1288.1	1339.2	1450.1	1772.2	2710.5	4363.1	7410.5	11743.7	13012.5	13381.5
30°	1168.7	1236.9	1341.3	1573.8	2426.8	4117.9	7732.5	12639.4	14002.1	14345.4
32.5°	1076.9	1145.2	1241.1	1435.2	2185.8	3859.9	7924.4	13426.3	14810.3	15102.4
35°	1002.3	1059.8	1160.1	1324.3	2002.4	3663.6	7886.1	14051.1	15592.9	15891.5
37.5°	949.0	998.0	1098.3	1219.8	1863.8	3458.9	7866.8	14876.4	16546.2	16891.7
40°	900.0	951.1	1042.8	1151.6	1725.2	3217.9	7877.5	15695.2	17561.3	17906.7
42.5°	861.5	919.1	993.7	1132.3	1582.3	3023.9	7877.5	16407.6	18444.1	18776.8
45°	829.6	891.4	963.9	1130.2	1469.3	2876.7	7824.2	17019.6	19147.8	19431.5
47.5°	801.8	870.1	974.6	1091.9	1441.6	2770.2	7777.2	17510.0	19721.4	19988.0
50°	782.6	863.7	1036.4	1047.0	1450.1	2738.1	8003.3	18128.5	20226.9	20457.2
52.5°	767.7	865.8	1034.3	980.9	1435.2	2759.5	8474.6	19094.5	20928.5	20945.5
55°	737.8	863.7	980.9	906.3	1373.4	2795.7	9080.2	20497.7	22026.7	22039.5
57.5°	708.0	840.2	910.6	842.3	1247.5	2795.7	9809.6	21826.2	23351.0	23361.6
60°	678.1	874.3	799.7	786.9	1083.3	2744.5	10579.4	22410.5	23766.8	23875.6
62.5°	648.2	880.7	714.4	737.8	963.9	2620.9	11153.0	21764.4	23203.9	23359.5
65°	614.2	710.1	658.9	686.7	902.1	2414.0	10971.8	20580.9	22146.1	22331.7
67.5°	573.6	601.4	599.2	633.4	880.7	2109.1	10016.4	19083.8	21007.3	20996.7
70°	524.6	539.5	545.9	582.1	840.2	1872.3	8346.7	17141.1	19486.9	19725.7
72.5°	473.4	486.2	492.6	524.6	799.7	1738.0	6478.6	14464.9	16878.8	17252.0
75°	418.0	426.5	435.0	462.7	757.1	1539.7	4614.7	11042.2	12927.3	13513.7
77.5°	360.4	360.4	371.0	398.8	637.6	1271.0	3096.4	7745.3	8758.3	9357.5
80°	292.2	294.3	290.1	319.9	469.2	870.1	1759.3	5173.5	5828.1	5943.3
82.5°	223.9	217.5	219.7	234.6	349.8	592.8	938.3	3213.7	3275.5	3211.5
85°	140.8	140.8	136.5	153.6	223.9	309.2	511.8	1968.3	1537.5	1462.9
87.5°	57.6	46.9	53.3	61.8	106.6	125.8	200.5	405.2	155.7	142.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)