

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: P647557

Luminaire Tested: **GALN-SA7D-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647557
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-SA7D-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 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: 36366.4 lumens
Efficiency: N/A
Efficacy: 84.0 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

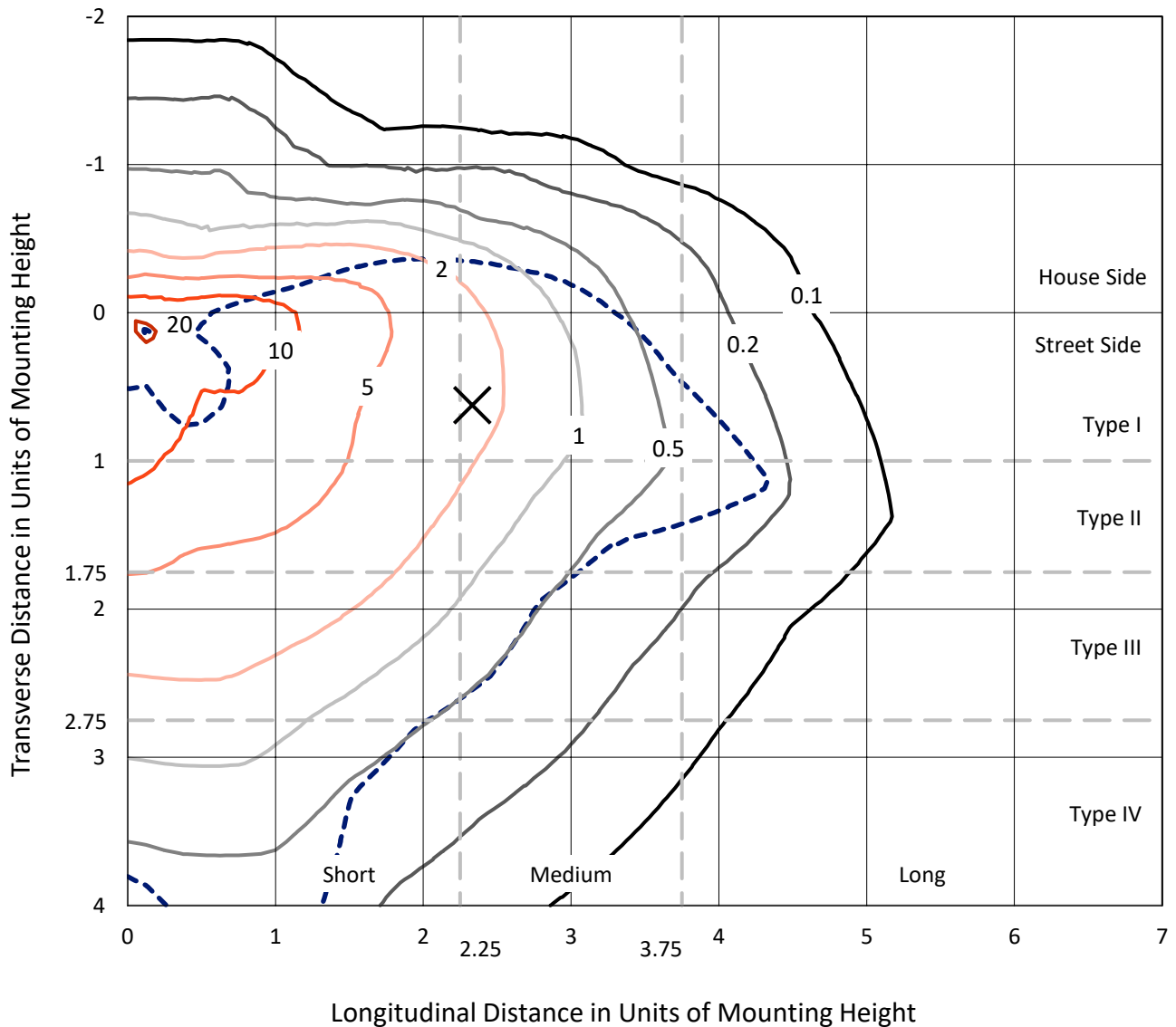
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

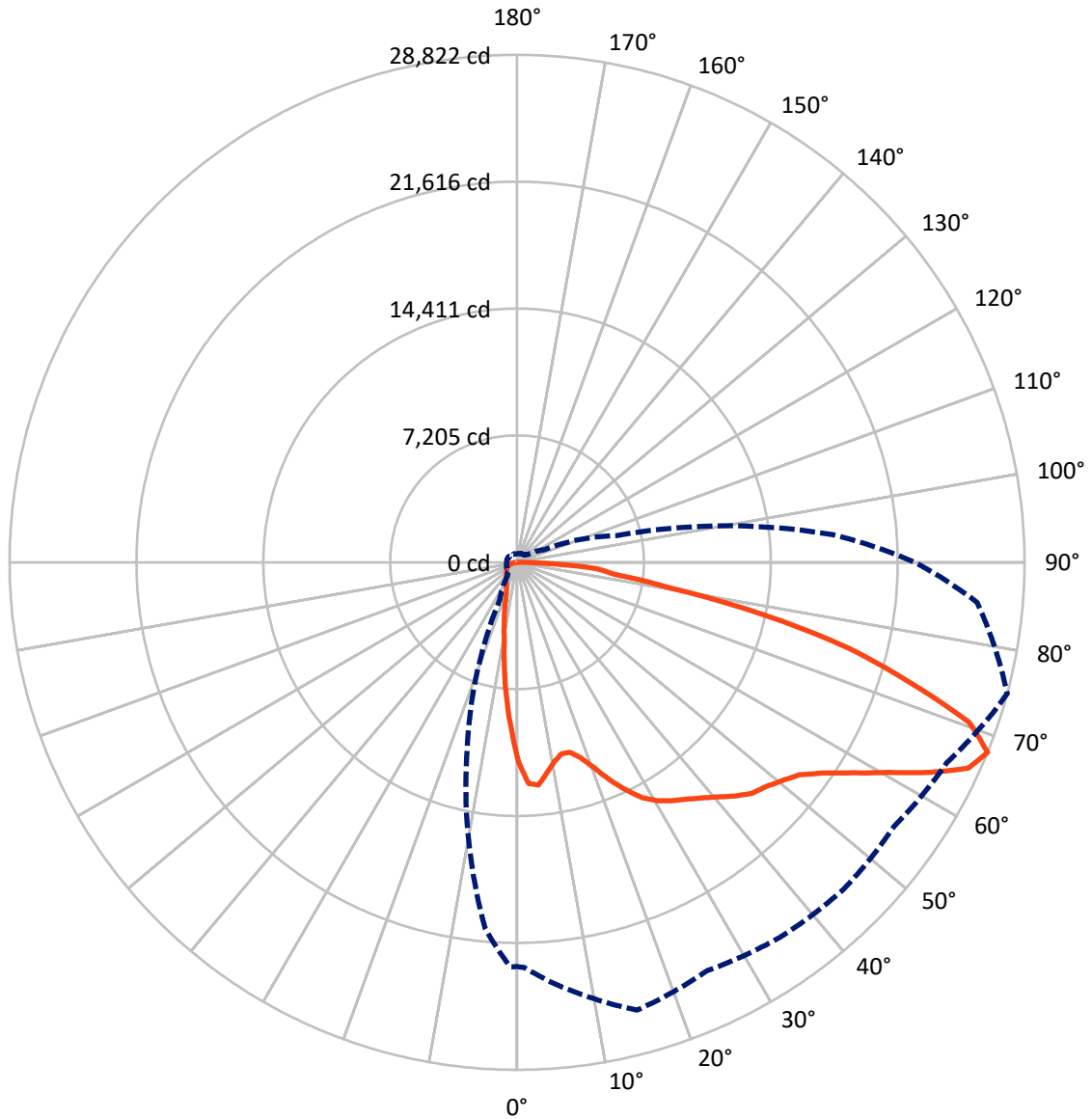
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.4 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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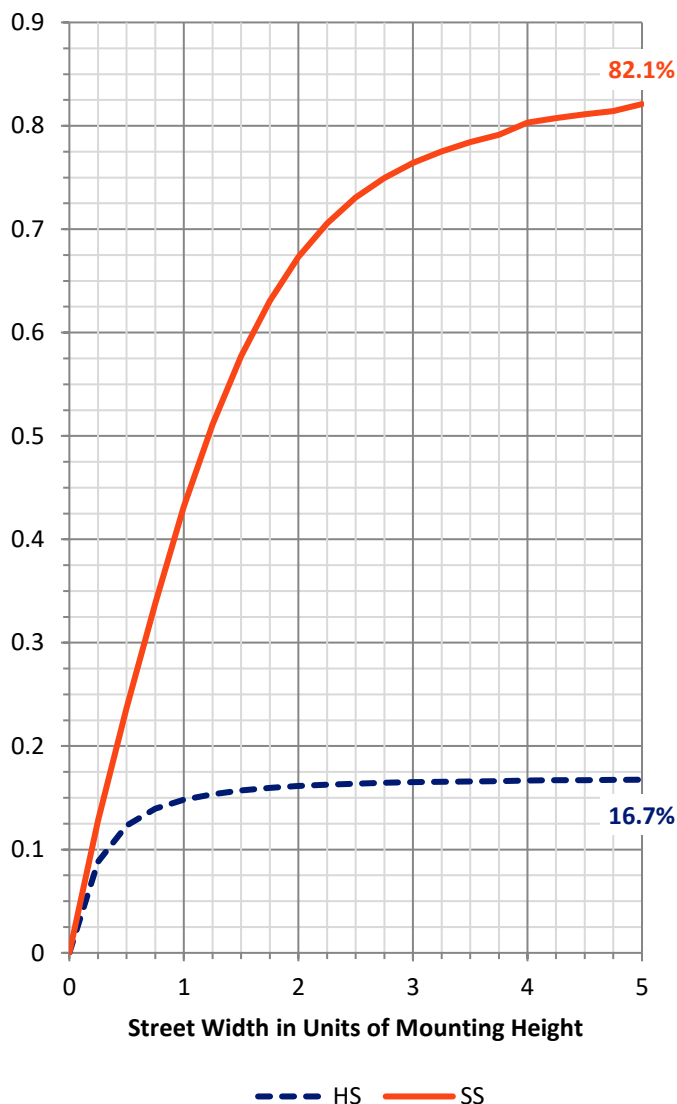
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6146.7	0.0	6146.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	30219.7	0.0	30219.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	36366.4	0.0	36366.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	861.8	2.4
10°-20°	1797.2	4.9
20°-30°	2586.2	7.1
30°-40°	3724.9	10.2
40°-50°	5232.4	14.4
50°-60°	7297.4	20.1
60°-70°	8676.2	23.9
70°-80°	5109.8	14.1
80°-90°	1080.5	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°	36366.4	100.0
0°-180°	36366.4	100.0

Coefficient of Utilization

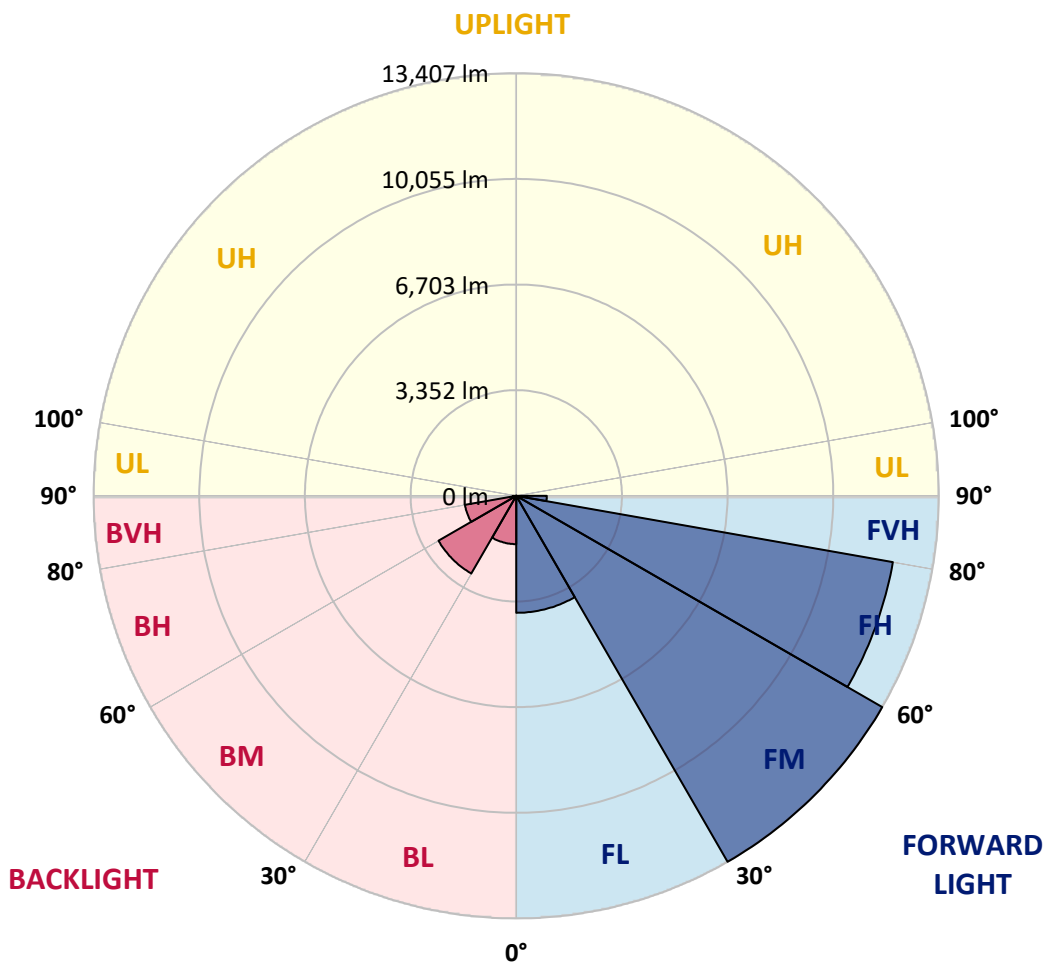


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3712.0	10.2			
FM (30°-60°)	13407.0	36.9			
FH (60°-80°)	12132.0	33.4			G5
FVH (80°-90°)	968.8	2.7			G5
BL (0°-30°)	1533.2	4.2	B3/2500		
BM (30°-60°)	2847.8	7.8	B3/5000		
BH (60°-80°)	1654.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	111.8	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°	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7
2.5°	12250.3	12266.6	12371.5	12677.0	12886.9	12963.8	13017.5	12917.2	12819.3	12581.4	12222.2
5°	12212.9	12308.5	12581.4	13267.0	13808.0	14041.2	14111.2	13810.4	13313.7	12702.7	11968.1
7.5°	11499.3	11627.6	12047.4	13197.1	14150.8	14696.6	14624.2	14080.9	13185.4	12096.3	11070.2
10°	10652.8	10795.1	11301.1	12691.0	13920.0	14670.9	14670.9	14008.6	12819.3	11525.0	10342.6
12.5°	9981.1	10130.4	10708.8	12171.0	13439.6	14150.8	14269.8	13700.8	12555.7	11163.5	9864.5
15°	9759.6	9904.2	10526.9	11856.1	12931.2	13364.9	13404.6	13218.1	12427.5	11189.1	9843.6
17.5°	10034.8	10221.4	10851.0	11949.4	12464.8	12490.4	12520.8	12667.7	12441.5	11657.9	10268.0
20°	10830.1	11030.6	11688.2	12250.3	12056.7	11790.8	11807.2	12185.0	12607.1	12432.2	11282.5
22.5°	11977.4	12152.3	12826.2	12779.7	11884.1	11336.1	11221.8	11748.8	12851.9	13397.6	12362.2
25°	13215.7	13420.9	14195.2	13565.6	11933.1	11065.6	10993.2	11492.3	13106.1	14300.1	13609.8
27.5°	14633.6	14834.2	15445.1	14358.4	12189.6	11044.6	10958.3	11469.0	13334.6	15135.0	14801.5
30°	15687.7	15871.9	16287.0	15025.4	12504.4	11184.5	11077.3	11653.2	13530.6	15706.4	15962.9
32.5°	16515.6	16706.8	16933.0	15440.4	12919.6	11438.7	11240.4	11989.1	13787.1	16142.4	16823.4
35°	17378.5	17604.7	17588.3	15808.9	13306.7	11732.6	11539.0	12474.1	14190.5	16522.6	17914.8
37.5°	18472.1	18563.1	18446.5	16140.1	13770.8	12261.9	12154.7	13194.7	14764.2	16981.9	19190.4
40°	19582.2	19764.1	19164.8	16541.2	14335.1	13257.7	13246.0	14260.5	15445.1	17520.6	20426.4
42.5°	20533.7	20687.6	19836.4	16891.0	15018.4	14472.7	14561.3	15690.0	16338.3	18145.6	21419.8
45°	21249.6	21387.2	20456.7	17229.1	15918.5	15876.6	16399.0	17222.2	17464.7	18707.7	22002.8
47.5°	21858.3	21991.2	20888.2	17742.2	17031.0	17553.3	18462.8	18819.6	18427.8	19029.5	22655.9
50°	22371.3	22410.9	21184.3	18353.2	18411.5	19607.9	20489.4	20720.2	19379.3	19491.2	23222.5
52.5°	22905.3	22854.0	21695.1	19122.8	19904.0	21557.5	22198.8	22439.0	20291.1	20060.3	24048.0
55°	24101.7	24150.7	22840.1	20093.0	21412.9	23472.1	24316.2	24085.4	21300.9	21107.3	25097.5
57.5°	25547.6	25505.6	24451.5	21611.1	22949.7	25253.7	25883.4	25512.6	22648.8	22546.3	26160.9
60°	26109.6	26165.6	25799.5	23243.5	24465.5	26813.9	27457.5	26881.5	24264.9	24218.3	26963.2
62.5°	25545.2	25860.1	26107.3	24696.4	25757.5	27961.2	28600.2	27942.6	25951.0	26289.1	27525.2
65°	24421.2	24488.8	25330.7	25927.7	26380.1	28150.2	28483.7	28133.8	27359.6	28175.8	27499.5
67.5°	22961.3	23019.7	24006.1	26331.1	25577.9	26004.7	26237.9	26135.3	26923.5	28821.8	26233.2
70°	21571.4	21524.8	22567.2	25302.7	22266.4	21618.1	21811.6	21489.8	23231.8	27243.0	23749.6
72.5°	18866.2	19034.2	20153.6	22443.6	17630.3	16576.2	16998.3	16165.7	17868.1	23332.1	19276.7
75°	14778.2	14817.8	16685.8	18835.9	13299.6	11636.9	12208.3	11860.8	13686.8	19463.3	13311.3
77.5°	10233.0	10144.4	12152.3	14386.4	9484.4	8519.0	8528.3	8362.8	9556.7	14330.5	9043.6
80°	6499.4	6364.1	7607.2	8887.4	6518.1	6972.8	6744.3	6737.3	6221.9	8840.8	5468.6
82.5°	3512.1	3661.3	4806.4	5571.3	4675.8	5389.4	4939.2	4794.7	4270.0	5533.9	3498.1
85°	1599.7	1739.7	2562.9	3789.6	3551.7	3591.4	2399.7	2831.1	3533.1	4493.9	1868.0
87.5°	156.2	200.5	529.4	1788.7	1212.6	956.1	356.8	687.9	888.5	1597.5	149.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7
2.5°	12075.3	11954.1	11541.3	11200.8	10839.4	10564.2	10205.1	9964.8	9799.2	9549.7	9519.4
5°	11520.3	11224.1	10505.9	9773.6	9141.6	8665.9	8183.1	7740.0	7478.9	7397.2	7292.3
7.5°	10585.1	10086.1	9162.6	8323.1	7597.8	6888.8	6343.2	5956.0	5697.2	5545.6	5363.7
10°	9815.6	9237.2	8113.2	7084.7	6487.8	6047.0	5566.6	5151.5	4832.0	4559.2	4409.9
12.5°	9297.9	8644.9	7380.9	6546.0	6084.3	5615.6	5053.6	4587.1	4116.1	3805.9	3673.0
15°	9141.6	8451.3	7154.7	6277.9	5615.6	5002.3	4372.6	3764.0	3297.5	3003.7	2905.7
17.5°	9524.1	8689.2	7152.4	5921.0	5065.2	4333.0	3526.1	2954.7	2476.6	2257.4	2187.5
20°	10237.7	9146.3	7173.4	5568.9	4468.2	3437.4	2565.3	2096.5	1868.0	1774.7	1739.7
22.5°	11233.5	9843.6	7236.3	5221.4	3815.2	2639.9	1921.6	1683.8	1602.1	1585.8	1578.8
25°	12460.1	10706.4	7448.5	4908.9	3264.9	2014.9	1606.8	1499.5	1452.9	1436.6	1434.2
27.5°	13588.8	11821.2	7705.1	4640.8	2733.1	1737.4	1452.9	1362.0	1315.3	1312.9	1317.6
30°	14608.0	12754.0	7919.7	4339.9	2329.7	1543.8	1352.6	1261.6	1217.3	1215.0	1229.0
32.5°	15489.5	13521.2	8078.2	4043.8	2105.8	1424.9	1261.6	1163.7	1126.3	1119.4	1126.3
35°	16431.6	14286.1	8005.9	3812.9	1977.5	1327.0	1194.0	1098.4	1054.1	1033.1	1033.1
37.5°	17506.7	15074.3	7882.3	3621.7	1919.3	1245.3	1135.7	1042.4	998.1	977.1	974.8
40°	18679.7	15862.6	7712.1	3451.5	1861.0	1196.3	1096.0	998.1	944.5	923.5	918.9
42.5°	19715.2	16536.6	7572.2	3339.5	1765.4	1205.7	1061.0	965.4	897.9	869.8	867.5
45°	20615.3	17215.2	7546.5	3274.2	1686.0	1191.6	1051.7	939.8	860.5	830.2	825.5
47.5°	21319.6	17921.8	7693.4	3236.8	1599.7	1117.0	1112.4	923.5	827.9	795.2	790.6
50°	22177.8	18924.6	8029.3	3160.0	1520.5	1047.1	1175.4	921.1	802.3	760.2	748.6
52.5°	23320.5	20230.5	8484.0	3022.3	1406.2	981.8	1121.7	921.1	771.9	729.9	716.0
55°	25048.5	21895.6	8929.4	2828.7	1245.3	895.5	1012.1	893.2	727.6	690.3	681.0
57.5°	26193.5	23112.9	9214.0	2560.6	1044.8	832.6	872.2	848.9	683.3	643.6	643.6
60°	26251.9	23439.4	9078.7	2222.5	918.9	774.2	757.9	855.9	643.6	601.7	597.0
62.5°	25580.2	22639.5	8374.4	1919.3	851.2	711.3	685.6	750.9	604.0	562.0	555.0
65°	24530.8	20599.0	7152.4	1774.7	813.9	655.3	618.0	615.7	562.0	522.4	513.0
67.5°	22602.2	18001.1	5876.7	1690.7	795.2	592.3	557.3	545.7	513.0	480.4	475.8
70°	19759.5	15076.7	4713.0	1655.7	785.9	527.0	499.1	485.1	457.1	431.4	429.1
72.5°	15372.9	12229.3	3889.9	1632.4	781.2	466.4	436.1	417.4	401.1	377.8	377.8
75°	11042.3	8997.1	2968.7	1471.5	722.9	401.1	368.5	356.8	333.5	314.8	319.5
77.5°	6961.2	6058.7	1954.3	1082.1	559.7	321.8	293.9	286.8	268.2	242.5	258.9
80°	4701.4	4260.6	1140.4	681.0	352.1	235.5	226.2	223.9	202.9	174.9	177.3
82.5°	3199.6	3139.0	592.3	387.1	202.9	137.6	133.0	137.6	114.2	93.3	93.3
85°	1250.0	1707.1	279.8	151.6	65.3	21.0	30.3	32.7	18.6	9.3	11.7
87.5°	23.3	174.9	7.0	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°	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7
2.5°	9472.8	9451.7	9486.7	9337.5	9367.8	9423.8	9451.7	9468.1	9699.0	9645.4	9792.3
5°	7390.3	7369.3	7504.5	7523.2	7593.1	7579.1	7646.8	7663.1	7747.1	7777.4	7982.6
7.5°	5375.4	5466.4	5620.2	5699.5	5818.5	5855.7	5820.8	5907.1	5732.2	5858.1	5895.4
10°	4318.9	4209.3	4144.0	4325.9	4349.3	4521.8	4451.9	4395.9	4498.5	4503.2	4601.1
12.5°	3596.0	3360.5	3204.3	3255.6	3311.5	3386.2	3397.8	3509.7	3584.3	3654.3	3712.6
15°	2819.4	2737.8	2595.6	2525.6	2604.9	2635.2	2707.5	2800.8	2880.1	2901.1	2980.3
17.5°	2164.1	2178.1	2154.8	2112.8	2161.8	2185.1	2189.8	2192.1	2213.1	2199.1	2315.7
20°	1742.0	1791.0	1849.3	1858.6	1875.0	1886.6	1865.7	1786.3	1788.7	1837.6	1875.0
22.5°	1576.5	1585.8	1651.1	1672.1	1723.4	1702.4	1641.8	1604.4	1599.7	1611.4	1630.1
25°	1445.9	1459.8	1506.5	1539.1	1578.8	1541.5	1497.2	1462.2	1457.6	1469.2	1487.9
27.5°	1329.3	1350.3	1392.3	1424.9	1462.2	1427.2	1385.2	1354.9	1352.6	1350.3	1362.0
30°	1236.0	1259.3	1289.6	1327.0	1352.6	1322.3	1282.6	1266.3	1264.0	1259.3	1264.0
32.5°	1142.7	1180.0	1210.4	1229.0	1254.7	1231.3	1201.0	1191.6	1175.4	1161.3	1154.4
35°	1037.8	1077.4	1124.1	1147.3	1173.0	1149.7	1128.7	1089.1	1061.0	1058.8	1063.4
37.5°	977.1	993.5	1030.7	1070.4	1096.0	1084.4	1044.8	1005.1	998.1	998.1	1002.8
40°	923.5	930.5	946.8	998.1	1044.8	1009.8	960.8	949.2	949.2	946.8	949.2
42.5°	869.8	876.9	876.9	916.5	991.1	935.1	897.9	897.9	897.9	900.1	907.2
45°	820.9	823.2	820.9	848.9	918.9	872.2	846.5	853.5	858.2	862.9	867.5
47.5°	778.9	781.2	778.9	802.3	837.2	818.5	804.5	813.9	823.2	830.2	834.8
50°	741.6	739.2	743.9	757.9	774.2	778.9	769.6	783.5	788.2	797.6	809.2
52.5°	708.9	706.6	711.3	718.2	741.6	741.6	741.6	753.2	762.6	771.9	788.2
55°	671.7	673.9	681.0	690.3	720.6	716.0	718.2	727.6	737.0	750.9	760.2
57.5°	636.7	641.3	650.7	664.6	694.9	692.6	694.9	699.6	711.3	718.2	727.6
60°	597.0	606.4	618.0	627.3	657.6	655.3	667.0	676.3	683.3	683.3	687.9
62.5°	557.3	571.4	583.0	590.0	622.6	625.0	641.3	648.3	652.9	648.3	655.3
65°	517.7	538.7	543.4	552.7	585.4	587.6	606.4	622.6	618.0	613.3	625.0
67.5°	478.1	503.7	501.4	513.0	545.7	550.4	566.7	594.7	585.4	580.7	590.0
70°	433.8	452.4	454.8	461.7	506.1	499.1	524.7	550.4	543.4	545.7	545.7
72.5°	384.8	401.1	401.1	415.1	461.7	450.1	471.1	499.1	499.1	496.7	496.7
75°	326.5	335.8	345.1	366.1	415.1	401.1	415.1	440.8	445.4	440.8	440.8
77.5°	263.6	277.5	282.2	310.1	345.1	342.8	356.8	368.5	377.8	373.1	373.1
80°	186.6	200.5	219.2	249.5	270.5	277.5	284.5	293.9	298.5	298.5	303.2
82.5°	104.9	125.9	142.3	172.6	181.9	216.9	214.5	221.5	214.5	188.9	209.9
85°	23.3	44.3	63.0	79.3	91.0	125.9	133.0	149.2	123.6	114.2	114.2
87.5°	0.0	0.0	0.0	0.0	0.0	18.6	37.3	51.3	44.3	37.3	37.3
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°	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7	11361.7
2.5°	9915.8	10118.8	10363.6	10785.7	11081.9	11401.3	11723.2	12066.0	12156.9	12250.3
5°	8038.6	8437.4	8654.3	9220.9	9815.6	10571.2	11189.1	11865.4	12147.6	12212.9
7.5°	6089.0	6359.5	6928.5	7502.2	8239.1	9032.0	9978.9	11032.9	11361.7	11499.3
10°	4827.4	5195.8	5694.8	6310.5	6956.5	7810.0	8878.1	10109.4	10575.8	10652.8
12.5°	4109.1	4519.5	5062.9	5713.6	6324.5	6968.2	8045.6	9316.5	9815.6	9981.1
15°	3285.9	3782.6	4409.9	5095.5	5760.1	6464.4	7555.9	8990.0	9566.1	9759.6
17.5°	2581.6	2982.7	3661.3	4405.2	5193.5	6084.3	7453.2	9146.3	9855.2	10034.8
20°	1975.3	2262.1	2833.4	3619.3	4542.8	5708.9	7478.9	9736.3	10585.1	10830.1
22.5°	1707.1	1854.0	2201.5	2950.0	3983.1	5382.3	7583.8	10545.5	11569.3	11977.4
25°	1546.1	1623.1	1819.0	2308.8	3449.1	5065.2	7824.0	11634.6	12945.2	13215.7
27.5°	1408.5	1464.5	1585.8	1937.9	2964.0	4771.4	8103.9	12842.6	14230.2	14633.6
30°	1277.9	1352.6	1466.9	1721.0	2653.9	4503.2	8456.0	13822.1	15312.2	15687.7
32.5°	1177.7	1252.3	1357.3	1569.4	2390.3	4221.0	8665.9	14682.6	16196.0	16515.6
35°	1096.0	1159.0	1268.6	1448.2	2189.8	4006.5	8623.9	15365.8	17051.9	17378.5
37.5°	1037.8	1091.4	1201.0	1333.9	2038.2	3782.6	8602.9	16268.4	18094.3	18472.1
40°	984.2	1040.1	1140.4	1259.3	1886.6	3519.0	8614.6	17163.8	19204.4	19582.2
42.5°	942.2	1005.1	1086.7	1238.3	1730.4	3306.8	8614.6	17942.8	20169.8	20533.7
45°	907.2	974.8	1054.1	1236.0	1606.8	3145.9	8556.3	18612.1	20939.5	21249.6
47.5°	876.9	951.5	1065.7	1194.0	1576.5	3029.3	8504.9	19148.4	21566.8	21858.3
50°	855.9	944.5	1133.4	1145.1	1585.8	2994.3	8752.1	19824.7	22119.4	22371.3
52.5°	839.5	946.8	1131.0	1072.7	1569.4	3017.7	9267.6	20881.1	22886.7	22905.3
55°	806.9	944.5	1072.7	991.1	1501.9	3057.3	9929.8	22415.6	24087.7	24101.7
57.5°	774.2	918.9	995.8	921.1	1364.2	3057.3	10727.4	23868.5	25535.9	25547.6
60°	741.6	956.1	874.5	860.5	1184.7	3001.3	11569.3	24507.5	25990.7	26109.6
62.5°	708.9	963.2	781.2	806.9	1054.1	2866.1	12196.6	23800.9	25375.0	25545.2
65°	671.7	776.6	720.6	750.9	986.4	2639.9	11998.4	22506.6	24218.3	24421.2
67.5°	627.3	657.6	655.3	692.6	963.2	2306.4	10953.6	20869.5	22973.0	22961.3
70°	573.7	590.0	597.0	636.7	918.9	2047.5	9127.7	18745.0	21310.3	21571.4
72.5°	517.7	531.7	538.7	573.7	874.5	1900.7	7084.7	15818.2	18458.1	18866.2
75°	457.1	466.4	475.8	506.1	827.9	1683.8	5046.5	12075.3	14136.9	14778.2
77.5°	394.1	394.1	405.8	436.1	697.3	1389.9	3386.2	8470.0	9577.7	10233.0
80°	319.5	321.8	317.2	349.8	513.0	951.5	1923.9	5657.6	6373.5	6499.4
82.5°	244.8	237.9	240.2	256.5	382.4	648.3	1026.1	3514.4	3582.0	3512.1
85°	153.9	153.9	149.2	167.9	244.8	338.2	559.7	2152.5	1681.4	1599.7
87.5°	63.0	51.3	58.3	67.7	116.6	137.6	219.2	443.1	170.2	156.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)