

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: P456931

Luminaire Tested: **GALN-SA8B-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456931
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-SA8B-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA 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: 33123 lumens
Efficiency: N/A
Efficacy: 101.9 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

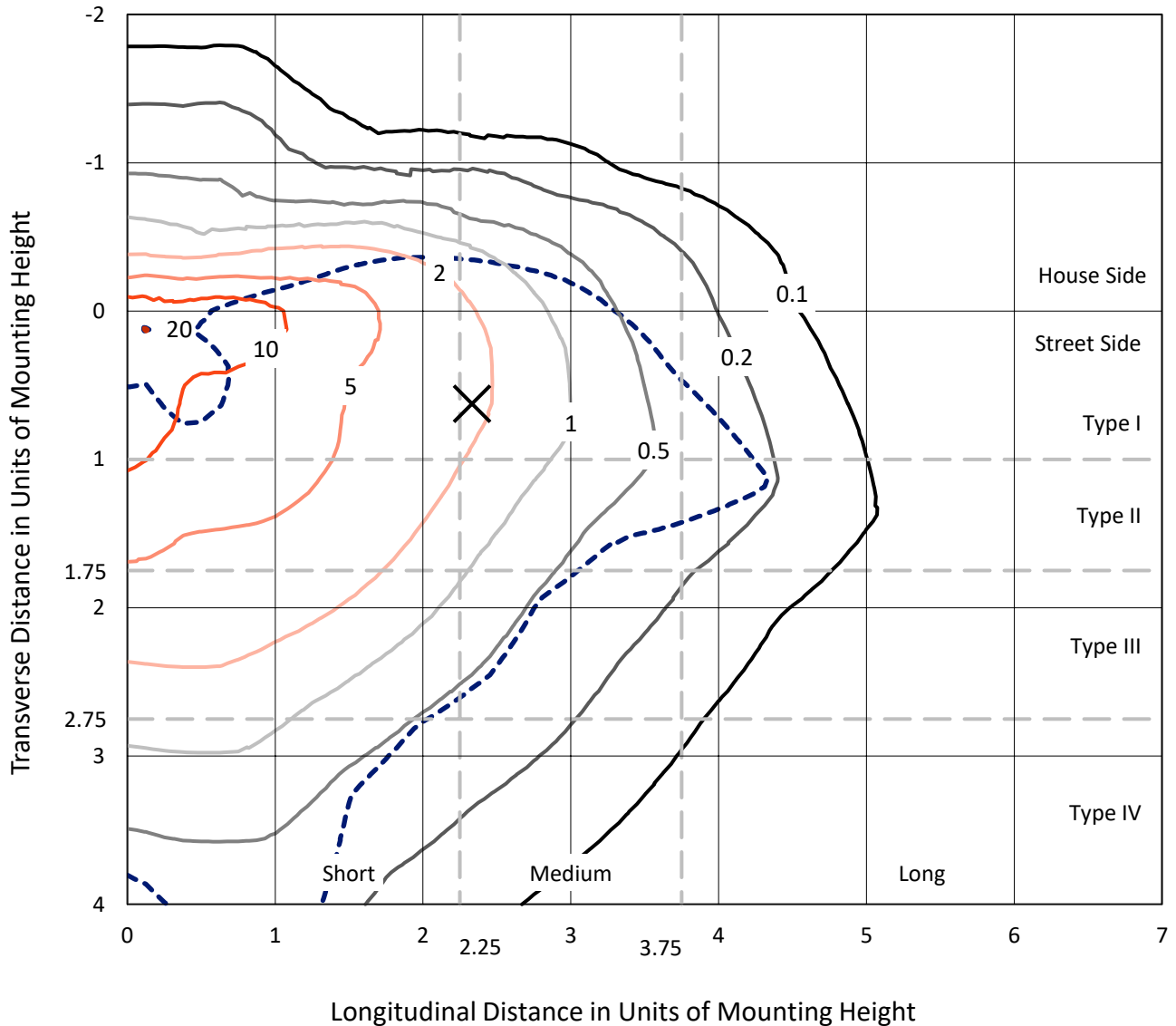
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

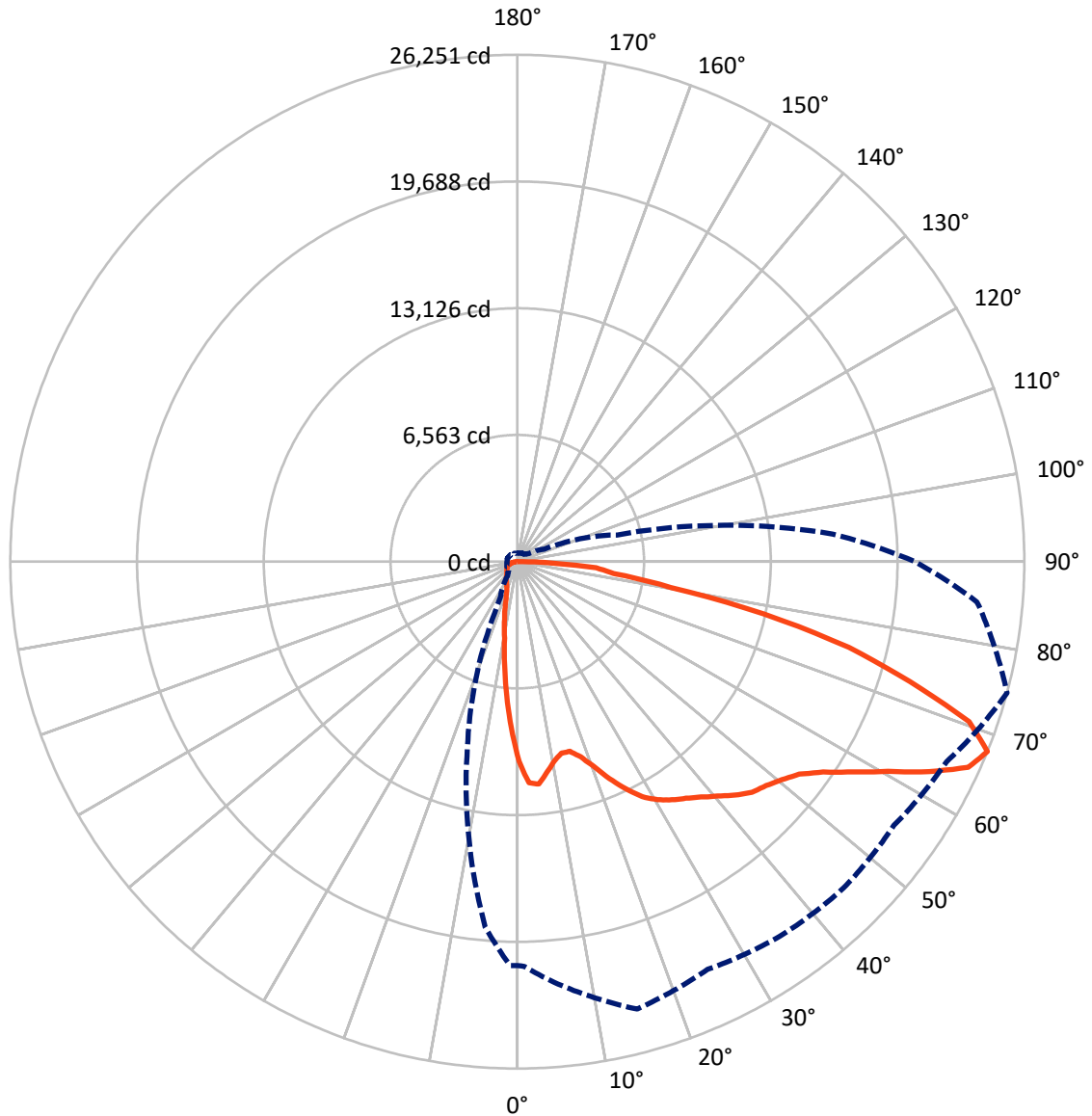
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 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	5598.5	0.0	5598.5
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	27524.5	0.0	27524.5
	% Fixture	83.1	0.0	83.1
Total	Lumens	33123.0	0.0	33123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.9	2.4
10°-20°	1636.9	4.9
20°-30°	2355.6	7.1
30°-40°	3392.7	10.2
40°-50°	4765.8	14.4
50°-60°	6646.6	20.1
60°-70°	7902.4	23.9
70°-80°	4654.1	14.1
80°-90°	984.2	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°	33123.0	100.0
0°-180°	33123.0	100.0

Coefficient of Utilization



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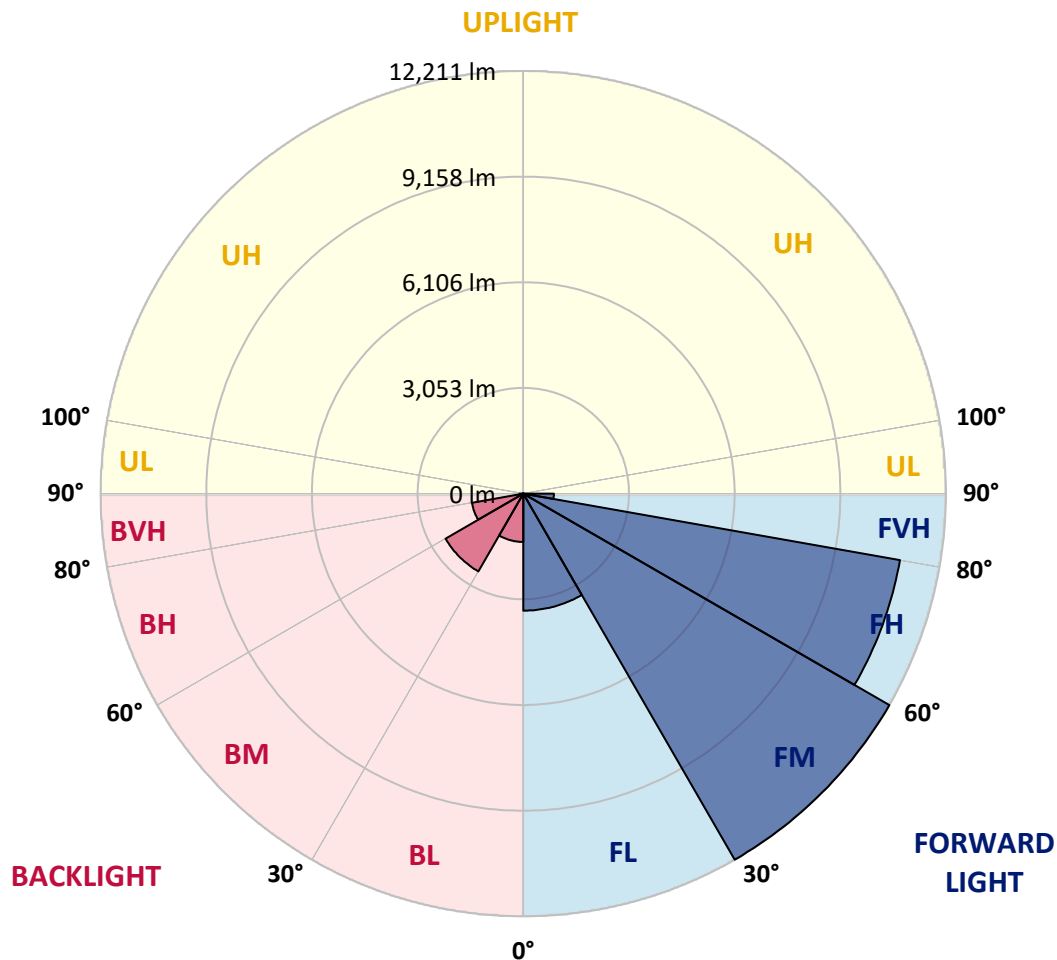
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3381.0	10.2			
FM	(30°-60°)	12211.2	36.9			
FH	(60°-80°)	11050.0	33.4			G4/12000
FVH	(80°-90°)	882.4	2.7			G5
BL	(0°-30°)	1396.4	4.2	B3/2500		
BM	(30°-60°)	2593.8	7.8	B3/5000		
BH	(60°-80°)	1506.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	101.8	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°	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4
2.5°	11157.7	11172.5	11268.1	11546.4	11737.5	11807.6	11856.5	11765.2	11675.9	11459.3	11132.2
5°	11123.7	11210.8	11459.3	12083.8	12576.5	12789.0	12852.7	12578.7	12126.2	11569.7	10900.7
7.5°	10473.7	10590.6	10972.9	12020.0	12888.8	13385.8	13320.0	12825.1	12009.4	11017.5	10082.9
10°	9702.7	9832.3	10293.2	11559.1	12678.5	13362.4	13362.4	12759.2	11675.9	10497.1	9420.2
12.5°	9091.0	9226.9	9753.7	11085.5	12240.9	12888.8	12997.1	12478.8	11435.9	10167.9	8984.8
15°	8889.2	9020.9	9588.0	10798.7	11777.9	12173.0	12209.1	12039.2	11319.1	10191.2	8965.6
17.5°	9139.8	9309.7	9883.2	10883.7	11353.1	11376.5	11404.1	11537.9	11331.8	10618.2	9352.2
20°	9864.1	10046.8	10645.8	11157.7	10981.4	10739.2	10754.1	11098.2	11482.7	11323.4	10276.2
22.5°	10909.2	11068.5	11682.3	11639.8	10824.2	10325.0	10221.0	10701.0	11705.7	12202.7	11259.6
25°	12037.0	12224.0	12929.1	12355.6	10868.8	10078.7	10012.8	10467.4	11937.2	13024.7	12396.0
27.5°	13328.5	13511.1	14067.6	13077.8	11102.4	10059.5	9980.9	10446.1	12145.4	13785.1	13481.4
30°	14288.5	14456.3	14834.4	13685.3	11389.2	10187.0	10089.3	10613.9	12323.8	14305.5	14539.2
32.5°	15042.6	15216.7	15422.8	14063.4	11767.3	10418.5	10238.0	10919.8	12557.4	14702.7	15323.0
35°	15828.5	16034.5	16019.6	14399.0	12119.9	10686.1	10509.8	11361.6	12924.9	15048.9	16317.0
37.5°	16824.7	16907.5	16801.3	14700.6	12542.6	11168.3	11070.6	12017.9	13447.4	15467.4	17478.9
40°	17835.7	18001.4	17455.5	15065.9	13056.6	12075.3	12064.6	12988.6	14067.6	15958.0	18604.6
42.5°	18702.3	18842.5	18067.2	15384.5	13678.9	13181.9	13262.6	14290.7	14881.1	16527.3	19509.5
45°	19354.4	19479.7	18632.2	15692.5	14498.8	14460.6	14936.4	15686.2	15907.1	17039.2	20040.5
47.5°	19908.8	20029.9	19025.2	16159.8	15512.0	15987.8	16816.2	17141.1	16784.3	17332.3	20635.2
50°	20376.1	20412.2	19294.9	16716.3	16769.4	17859.1	18662.0	18872.3	17650.9	17752.9	21151.4
52.5°	20862.5	20815.8	19760.1	17417.3	18128.8	19634.8	20218.9	20437.7	18481.4	18271.1	21903.3
55°	21952.1	21996.7	20803.0	18300.9	19503.1	21378.6	22147.5	21937.3	19401.1	19224.8	22859.1
57.5°	23269.1	23230.8	22270.7	19683.6	20902.9	23001.4	23574.9	23237.2	20628.8	20535.4	23827.7
60°	23780.9	23831.9	23498.5	21170.5	22283.5	24422.4	25008.7	24484.0	22100.8	22058.3	24558.4
62.5°	23266.9	23553.7	23778.8	22493.8	23460.2	25467.5	26049.4	25450.5	23636.5	23944.5	25070.3
65°	22243.1	22304.7	23071.5	23615.3	24027.3	25639.5	25943.2	25624.6	24919.4	25662.9	25046.9
67.5°	20913.5	20966.6	21865.0	23982.7	23296.7	23685.4	23897.8	23804.3	24522.2	26251.2	23893.5
70°	19647.5	19605.1	20554.5	23046.0	20280.5	19690.0	19866.3	19573.2	21159.9	24813.2	21631.4
72.5°	17183.6	17336.6	18356.1	20441.9	16057.9	15097.8	15482.3	14724.0	16274.5	21251.2	17557.5
75°	13460.2	13496.3	15197.6	17156.0	12113.5	10599.0	11119.4	10803.0	12466.1	17727.4	12124.1
77.5°	9320.4	9239.7	11068.5	13103.3	8638.5	7759.2	7767.7	7616.9	8704.4	13052.3	8237.1
80°	5919.7	5796.6	6928.7	8094.8	5936.7	6350.9	6142.8	6136.4	5667.0	8052.3	4980.9
82.5°	3198.8	3334.8	4377.7	5074.4	4258.7	4908.7	4498.8	4367.1	3889.1	5040.4	3186.1
85°	1457.1	1584.5	2334.3	3451.6	3234.9	3271.0	2185.7	2578.6	3217.9	4093.1	1701.4
87.5°	142.3	182.7	482.2	1629.2	1104.5	870.9	325.0	626.6	809.3	1455.0	135.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4
2.5°	10998.4	10887.9	10512.0	10201.8	9872.6	9622.0	9294.9	9076.1	8925.3	8698.0	8670.4
5°	10492.8	10223.1	9568.9	8901.9	8326.3	7893.0	7453.3	7049.7	6811.9	6737.5	6641.9
7.5°	9641.1	9186.5	8345.4	7580.8	6920.2	6274.5	5777.4	5424.8	5189.1	5051.0	4885.3
10°	8940.2	8413.4	7389.6	6452.9	5909.1	5507.7	5070.1	4692.0	4401.0	4152.5	4016.6
12.5°	8468.6	7873.9	6722.6	5962.2	5541.7	5114.7	4602.8	4178.0	3749.0	3466.5	3345.4
15°	8326.3	7697.6	6516.6	5718.0	5114.7	4556.1	3982.6	3428.2	3003.4	2735.8	2646.6
17.5°	8674.7	7914.2	6514.5	5393.0	4613.5	3946.5	3211.6	2691.2	2255.7	2056.1	1992.4
20°	9324.6	8330.6	6533.6	5072.2	4069.7	3130.9	2336.5	1909.5	1701.4	1616.4	1584.5
22.5°	10231.6	8965.6	6591.0	4755.8	3475.0	2404.4	1750.2	1533.6	1459.2	1444.4	1438.0
25°	11348.8	9751.5	6784.2	4471.1	2973.7	1835.2	1463.5	1365.8	1323.3	1308.4	1306.3
27.5°	12376.9	10766.8	7017.9	4226.9	2489.4	1582.4	1323.3	1240.4	1198.0	1195.8	1200.1
30°	13305.1	11616.5	7213.3	3952.9	2121.9	1406.1	1232.0	1149.1	1108.8	1106.6	1119.4
32.5°	14108.0	12315.3	7357.7	3683.1	1918.0	1297.8	1149.1	1059.9	1025.9	1019.5	1025.9
35°	14966.1	13012.0	7291.9	3472.8	1801.2	1208.6	1087.5	1000.4	960.1	941.0	941.0
37.5°	15945.3	13729.9	7179.3	3298.7	1748.1	1134.2	1034.4	949.5	909.1	890.0	887.9
40°	17013.7	14447.8	7024.3	3143.6	1695.0	1089.6	998.3	909.1	860.2	841.1	836.9
42.5°	17956.8	15061.7	6896.8	3041.7	1607.9	1098.1	966.4	879.4	817.8	792.3	790.1
45°	18776.7	15679.8	6873.5	2982.2	1535.7	1085.4	958.0	856.0	783.8	756.2	751.9
47.5°	19418.1	16323.4	7007.3	2948.2	1457.1	1017.4	1013.2	841.1	754.0	724.3	720.1
50°	20199.8	17236.7	7313.1	2878.1	1384.9	953.7	1070.5	839.0	730.7	692.4	681.8
52.5°	21240.6	18426.2	7727.3	2752.8	1280.8	894.2	1021.7	839.0	703.1	664.8	652.1
55°	22814.5	19942.8	8133.0	2576.5	1134.2	815.6	921.8	813.5	662.7	628.7	620.2
57.5°	23857.4	21051.5	8392.2	2332.2	951.6	758.3	794.4	773.2	622.3	586.2	586.2
60°	23910.5	21348.9	8269.0	2024.2	836.9	705.2	690.3	779.5	586.2	548.0	543.8
62.5°	23298.8	20620.4	7627.5	1748.1	775.3	647.8	624.5	683.9	550.1	511.9	505.5
65°	22343.0	18761.8	6514.5	1616.4	741.3	596.9	562.9	560.8	511.9	475.8	467.3
67.5°	20586.4	16395.6	5352.6	1539.9	724.3	539.5	507.6	497.0	467.3	437.6	433.3
70°	17997.1	13732.0	4292.7	1508.1	715.8	480.0	454.5	441.8	416.3	393.0	390.8
72.5°	14001.8	11138.6	3542.9	1486.8	711.6	424.8	397.2	380.2	365.3	344.1	344.1
75°	10057.4	8194.6	2703.9	1340.3	658.5	365.3	335.6	325.0	303.7	286.7	291.0
77.5°	6340.3	5518.3	1780.0	985.6	509.8	293.1	267.6	261.3	244.3	220.9	235.8
80°	4282.1	3880.7	1038.7	620.2	320.7	214.5	206.0	203.9	184.8	159.3	161.4
82.5°	2914.2	2859.0	539.5	352.6	184.8	125.3	121.1	125.3	104.1	85.0	85.0
85°	1138.5	1554.8	254.9	138.1	59.5	19.1	27.6	29.7	17.0	8.5	10.6
87.5°	21.2	159.3	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°	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4
2.5°	8627.9	8608.8	8640.7	8504.7	8532.3	8583.3	8608.8	8623.7	8834.0	8785.1	8918.9
5°	6731.1	6712.0	6835.2	6852.2	6915.9	6903.2	6964.8	6979.7	7056.1	7083.7	7270.6
7.5°	4896.0	4978.8	5119.0	5191.2	5299.5	5333.5	5301.6	5380.2	5220.9	5335.6	5369.6
10°	3933.8	3833.9	3774.5	3940.1	3961.4	4118.5	4054.8	4003.8	4097.3	4101.6	4190.8
12.5°	3275.3	3060.8	2918.5	2965.2	3016.2	3084.1	3094.8	3196.7	3264.7	3328.4	3381.5
15°	2568.0	2493.6	2364.1	2300.4	2372.6	2400.2	2466.0	2551.0	2623.2	2642.3	2714.5
17.5°	1971.1	1983.9	1962.6	1924.4	1969.0	1990.2	1994.5	1996.6	2015.7	2003.0	2109.2
20°	1586.7	1631.3	1684.4	1692.9	1707.7	1718.4	1699.2	1627.0	1629.2	1673.8	1707.7
22.5°	1435.9	1444.4	1503.8	1522.9	1569.7	1550.6	1495.3	1461.4	1457.1	1467.7	1484.7
25°	1316.9	1329.7	1372.1	1401.9	1438.0	1404.0	1363.6	1331.8	1327.5	1338.2	1355.1
27.5°	1210.7	1229.8	1268.1	1297.8	1331.8	1299.9	1261.7	1234.1	1232.0	1229.8	1240.4
30°	1125.8	1147.0	1174.6	1208.6	1232.0	1204.3	1168.2	1153.4	1151.2	1147.0	1151.2
32.5°	1040.8	1074.8	1102.4	1119.4	1142.7	1121.5	1093.9	1085.4	1070.5	1057.8	1051.4
35°	945.2	981.3	1023.8	1045.0	1068.4	1047.2	1028.0	991.9	966.4	964.3	968.6
37.5°	890.0	904.8	938.8	974.9	998.3	987.7	951.6	915.5	909.1	909.1	913.3
40°	841.1	847.5	862.4	909.1	951.6	919.7	875.1	864.5	864.5	862.4	864.5
42.5°	792.3	798.6	798.6	834.8	902.7	851.7	817.8	817.8	817.8	819.9	826.3
45°	747.7	749.8	747.7	773.2	836.9	794.4	771.0	777.4	781.7	785.9	790.1
47.5°	709.4	711.6	709.4	730.7	762.5	745.5	732.8	741.3	749.8	756.2	760.4
50°	675.5	673.3	677.6	690.3	705.2	709.4	700.9	713.7	717.9	726.4	737.0
52.5°	645.7	643.6	647.8	654.2	675.5	675.5	675.5	686.1	694.6	703.1	717.9
55°	611.7	613.9	620.2	628.7	656.3	652.1	654.2	662.7	671.2	683.9	692.4
57.5°	579.9	584.1	592.6	605.4	633.0	630.8	633.0	637.2	647.8	654.2	662.7
60°	543.8	552.3	562.9	571.4	599.0	596.9	607.5	616.0	622.3	622.3	626.6
62.5°	507.6	520.4	531.0	537.4	567.1	569.2	584.1	590.5	594.7	590.5	596.9
65°	471.5	490.7	494.9	503.4	533.1	535.3	552.3	567.1	562.9	558.6	569.2
67.5°	435.4	458.8	456.7	467.3	497.0	501.3	516.1	541.6	533.1	528.9	537.4
70°	395.1	412.1	414.2	420.6	460.9	454.5	477.9	501.3	494.9	497.0	497.0
72.5°	350.5	365.3	365.3	378.1	420.6	409.9	429.1	454.5	454.5	452.4	452.4
75°	297.4	305.9	314.4	333.5	378.1	365.3	378.1	401.4	405.7	401.4	401.4
77.5°	240.0	252.8	257.0	282.5	314.4	312.2	325.0	335.6	344.1	339.8	339.8
80°	169.9	182.7	199.7	227.3	246.4	252.8	259.1	267.6	271.9	271.9	276.1
82.5°	95.6	114.7	129.6	157.2	165.7	197.5	195.4	201.8	195.4	172.0	191.2
85°	21.2	40.4	57.3	72.2	82.8	114.7	121.1	135.9	112.6	104.1	104.1
87.5°	0.0	0.0	0.0	0.0	0.0	17.0	34.0	46.7	40.4	34.0	34.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4
2.5°	9031.5	9216.3	9439.3	9823.8	10093.5	10384.5	10677.6	10989.9	11072.7	11157.7
5°	7321.6	7684.8	7882.4	8398.5	8940.2	9628.4	10191.2	10807.2	11064.2	11123.7
7.5°	5545.9	5792.3	6310.6	6833.1	7504.3	8226.5	9088.8	10048.9	10348.4	10473.7
10°	4396.8	4732.4	5186.9	5747.7	6336.1	7113.5	8086.3	9207.8	9632.6	9702.7
12.5°	3742.6	4116.4	4611.3	5203.9	5760.4	6346.7	7328.0	8485.6	8940.2	9091.0
15°	2992.8	3445.2	4016.6	4641.1	5246.4	5887.9	6881.9	8188.2	8712.9	8889.2
17.5°	2351.3	2716.7	3334.8	4012.3	4730.3	5541.7	6788.5	8330.6	8976.3	9139.8
20°	1799.1	2060.3	2580.7	3296.5	4137.7	5199.7	6811.9	8867.9	9641.1	9864.1
22.5°	1554.8	1688.6	2005.1	2686.9	3627.9	4902.3	6907.4	9605.0	10537.5	10909.2
25°	1408.3	1478.3	1656.8	2102.8	3141.5	4613.5	7126.2	10596.9	11790.6	12037.0
27.5°	1282.9	1333.9	1444.4	1765.1	2699.7	4345.8	7381.1	11697.2	12961.0	13328.5
30°	1164.0	1232.0	1336.0	1567.6	2417.2	4101.6	7701.8	12589.3	13946.6	14288.5
32.5°	1072.6	1140.6	1236.2	1429.5	2177.2	3844.5	7893.0	13373.1	14751.6	15042.6
35°	998.3	1055.7	1155.5	1319.0	1994.5	3649.1	7854.8	13995.4	15531.1	15828.5
37.5°	945.2	994.1	1093.9	1215.0	1856.4	3445.2	7835.6	14817.4	16480.6	16824.7
40°	896.4	947.3	1038.7	1147.0	1718.4	3205.2	7846.3	15633.1	17491.6	17835.7
42.5°	858.1	915.5	989.8	1127.9	1576.1	3011.9	7846.3	16342.5	18371.0	18702.3
45°	826.3	887.9	960.1	1125.8	1463.5	2865.4	7793.2	16952.1	19071.9	19354.4
47.5°	798.6	866.6	970.7	1087.5	1435.9	2759.2	7746.4	17440.6	19643.3	19908.8
50°	779.5	860.2	1032.3	1042.9	1444.4	2727.3	7971.6	18056.6	20146.7	20376.1
52.5°	764.7	862.4	1030.2	977.1	1429.5	2748.5	8441.0	19018.8	20845.5	20862.5
55°	734.9	860.2	977.1	902.7	1367.9	2784.6	9044.2	20416.4	21939.4	21952.1
57.5°	705.2	836.9	907.0	839.0	1242.6	2784.6	9770.7	21739.7	23258.4	23269.1
60°	675.5	870.9	796.5	783.8	1079.0	2733.7	10537.5	22321.7	23672.6	23780.9
62.5°	645.7	877.2	711.6	734.9	960.1	2610.5	11108.8	21678.1	23111.9	23266.9
65°	611.7	707.3	656.3	683.9	898.5	2404.4	10928.3	20499.3	22058.3	22243.1
67.5°	571.4	599.0	596.9	630.8	877.2	2100.7	9976.7	19008.2	20924.1	20913.5
70°	522.5	537.4	543.8	579.9	836.9	1864.9	8313.6	17073.2	19409.6	19647.5
72.5°	471.5	484.3	490.7	522.5	796.5	1731.1	6452.9	14407.5	16811.9	17183.6
75°	416.3	424.8	433.3	460.9	754.0	1533.6	4596.5	10998.4	12876.0	13460.2
77.5°	359.0	359.0	369.6	397.2	635.1	1265.9	3084.1	7714.6	8723.5	9320.4
80°	291.0	293.1	288.9	318.6	467.3	866.6	1752.3	5153.0	5805.0	5919.7
82.5°	223.0	216.7	218.8	233.6	348.3	590.5	934.6	3201.0	3262.6	3198.8
85°	140.2	140.2	135.9	152.9	223.0	308.0	509.8	1960.5	1531.4	1457.1
87.5°	57.3	46.7	53.1	61.6	106.2	125.3	199.7	403.6	155.1	142.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)