

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: P455539

Luminaire Tested: **GALN-SA6D-727-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455539  
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-727-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 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: 33069 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

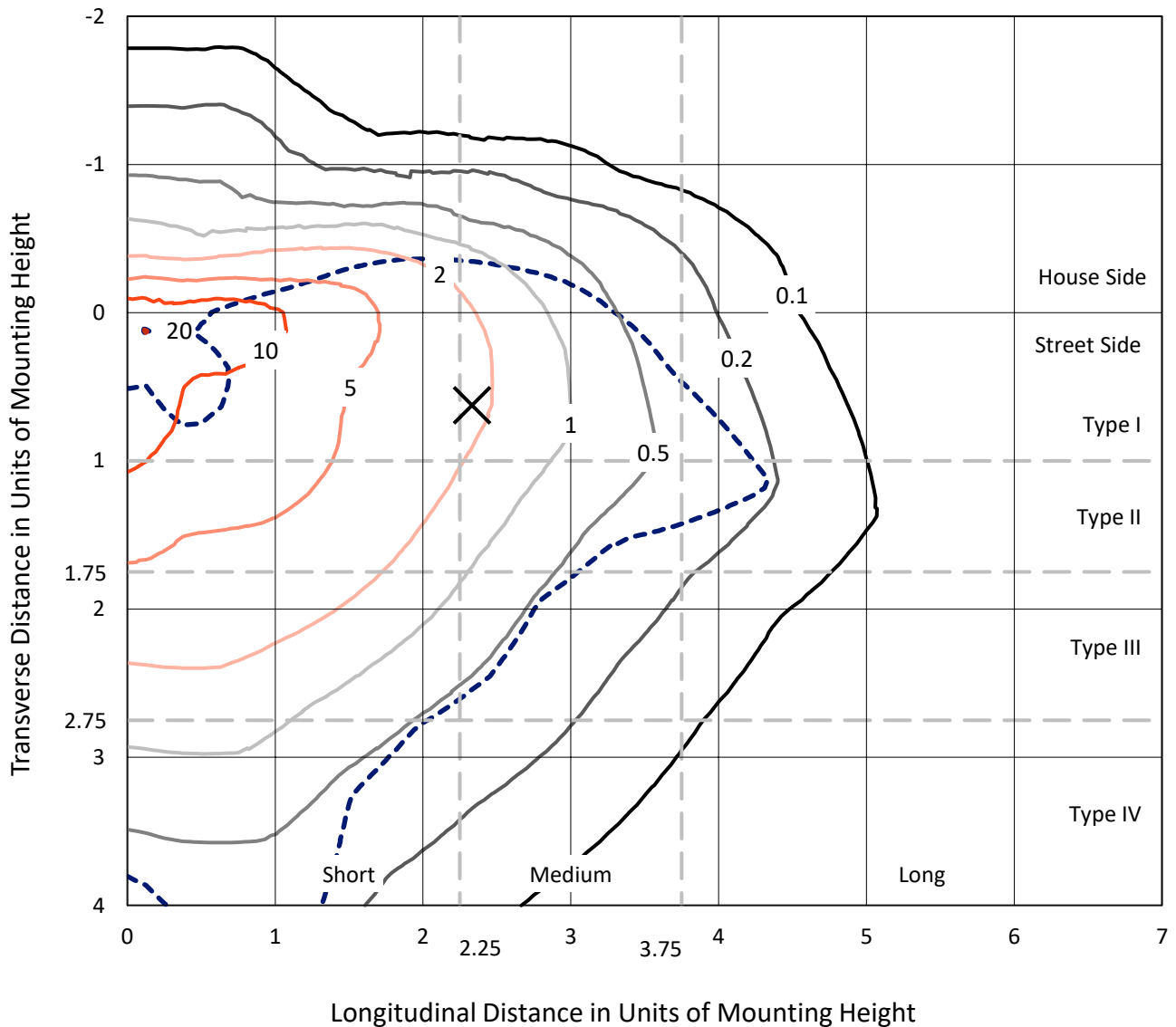
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

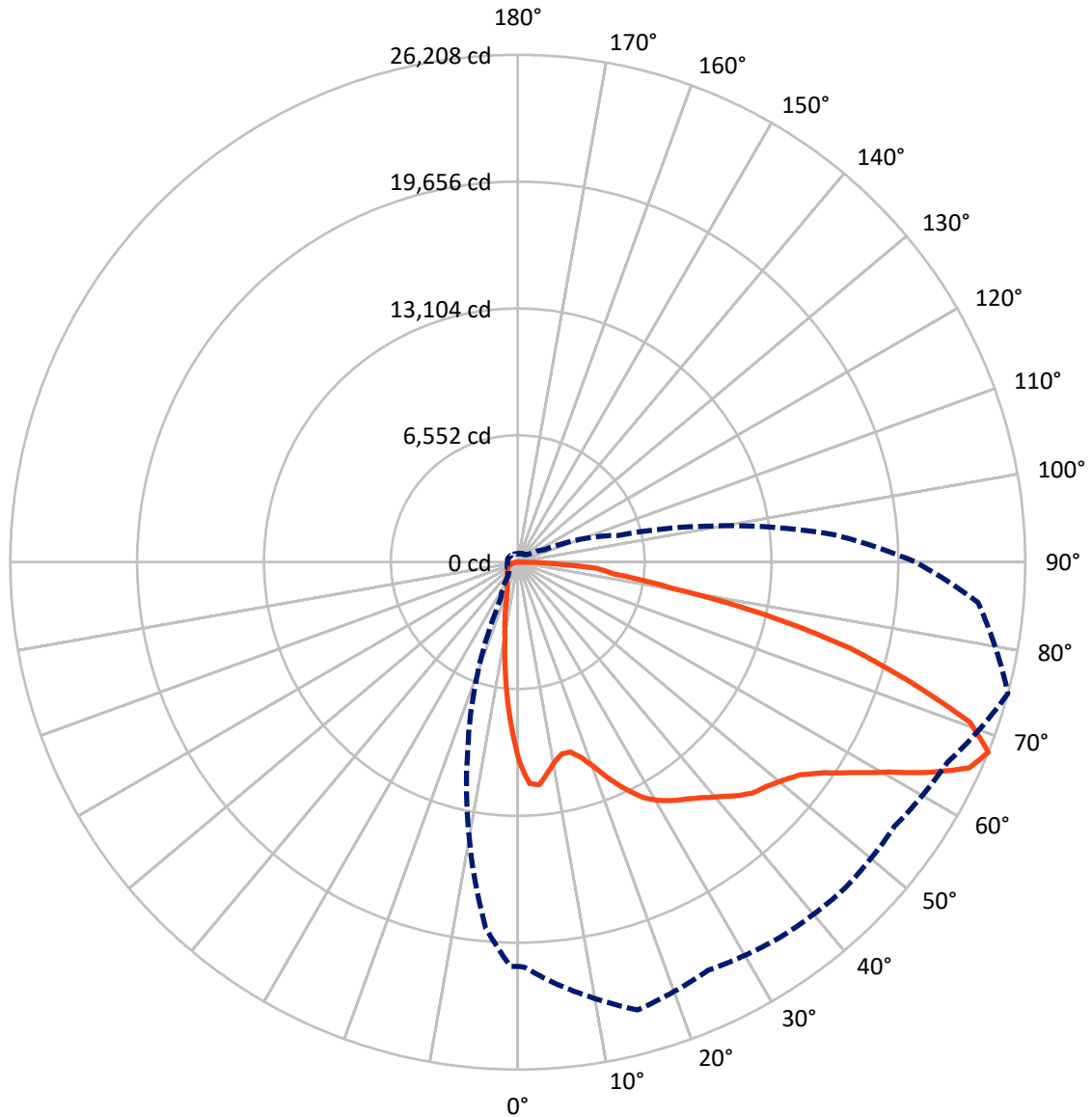
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	5589.4	0.0	5589.4
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	27479.6	0.0	27479.6
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	33069.0	0.0	33069.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	783.6	2.4
10°-20°	1634.3	4.9
20°-30°	2351.7	7.1
30°-40°	3387.1	10.2
40°-50°	4758.0	14.4
50°-60°	6635.7	20.1
60°-70°	7889.5	23.9
70°-80°	4646.5	14.1
80°-90°	982.6	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°	33069.0	100.0
0°-180°	33069.0	100.0

**Coefficient of Utilization**



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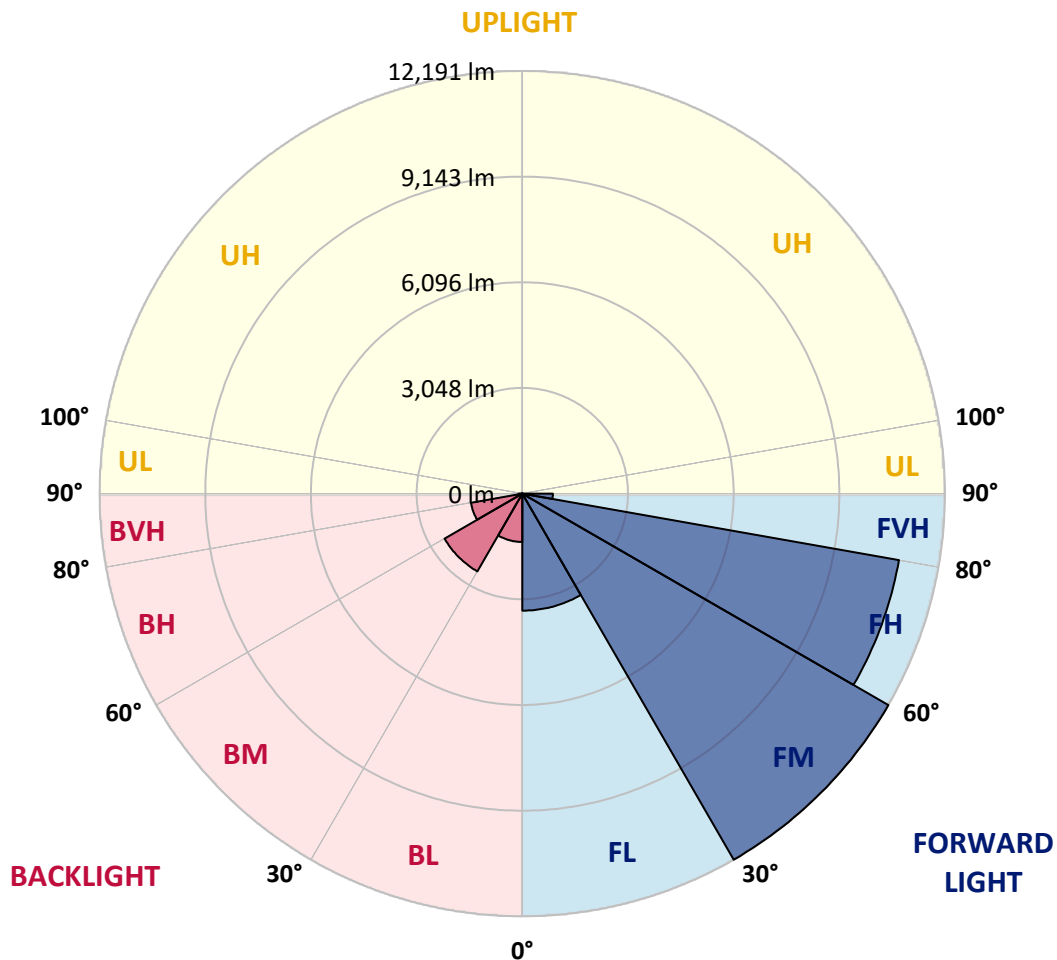
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3375.4	10.2			
FM	(30°-60°)	12191.3	36.9			
FH	(60°-80°)	11032.0	33.4			G4/12000
FVH	(80°-90°)	880.9	2.7			G5
BL	(0°-30°)	1394.2	4.2	B3/2500		
BM	(30°-60°)	2589.6	7.8	B3/5000		
BH	(60°-80°)	1504.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	101.6	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°	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5
2.5°	11139.5	11154.3	11249.8	11527.6	11718.4	11788.4	11837.2	11746.0	11656.9	11440.6	11114.0
5°	11105.6	11192.5	11440.6	12064.1	12556.0	12768.1	12831.7	12558.2	12106.5	11550.9	10882.9
7.5°	10456.7	10573.3	10955.0	12000.4	12867.8	13364.0	13298.3	12804.2	11989.8	10999.5	10066.5
10°	9686.9	9816.2	10276.4	11540.3	12657.8	13340.7	13340.7	12738.4	11656.9	10480.0	9404.8
12.5°	9076.1	9211.9	9737.8	11067.4	12221.0	12867.8	12975.9	12458.5	11417.3	10151.3	8970.1
15°	8874.7	9006.2	9572.4	10781.1	11758.7	12153.1	12189.2	12019.5	11300.7	10174.6	8951.0
17.5°	9124.9	9294.6	9867.1	10865.9	11334.6	11357.9	11385.5	11519.1	11313.4	10600.9	9337.0
20°	9848.0	10030.4	10628.4	11139.5	10963.5	10721.7	10736.6	11080.1	11463.9	11304.9	10259.4
22.5°	10891.4	11050.4	11663.3	11620.9	10806.6	10308.2	10204.3	10683.6	11686.6	12182.8	11241.3
25°	12017.4	12204.0	12908.1	12335.5	10851.1	10062.2	9996.5	10450.3	11917.7	13003.5	12375.8
27.5°	13306.7	13489.1	14044.7	13056.5	11084.3	10043.1	9964.7	10429.1	12125.6	13762.7	13459.4
30°	14265.2	14432.8	14810.2	13663.0	11370.6	10170.4	10072.8	10596.6	12303.7	14282.2	14515.5
32.5°	15018.1	15191.9	15397.6	14040.5	11748.1	10401.5	10221.3	10902.0	12537.0	14678.8	15298.0
35°	15802.7	16008.4	15993.5	14375.5	12100.1	10668.7	10492.7	11343.1	12903.8	15024.4	16290.4
37.5°	16797.2	16879.9	16773.9	14676.6	12522.1	11150.1	11052.5	11998.3	13425.5	15442.2	17450.4
40°	17806.6	17972.0	17427.0	15041.4	13035.3	12055.6	12045.0	12967.4	14044.7	15932.0	18574.3
42.5°	18671.8	18811.8	18037.8	15359.5	13656.6	13160.4	13241.0	14267.4	14856.9	16500.3	19477.7
45°	19322.9	19448.0	18601.9	15667.0	14475.2	14437.0	14912.0	15660.6	15881.1	17011.4	20007.8
47.5°	19876.3	19997.2	18994.2	16133.5	15486.7	15961.7	16788.7	17113.2	16756.9	17304.1	20601.6
50°	20342.9	20378.9	19263.5	16689.1	16742.1	17830.0	18631.5	18841.5	17622.1	17723.9	21116.9
52.5°	20828.5	20781.8	19727.9	17388.9	18099.3	19602.8	20185.9	20404.4	18451.3	18241.4	21867.6
55°	21916.3	21960.9	20769.1	18271.0	19471.3	21343.8	22111.4	21901.5	19369.5	19193.5	22821.8
57.5°	23231.1	23192.9	22234.4	19651.6	20868.8	22963.9	23536.5	23199.3	20595.2	20501.9	23788.8
60°	23742.2	23793.1	23460.1	21136.0	22247.2	24382.6	24967.9	24444.1	22064.8	22022.4	24518.3
62.5°	23229.0	23515.3	23740.1	22457.1	23422.0	25425.9	26007.0	25409.0	23598.0	23905.5	25029.4
65°	22206.9	22268.4	23033.9	23576.8	23988.2	25597.7	25900.9	25582.9	24878.8	25621.0	25006.1
67.5°	20879.4	20932.4	21829.4	23943.6	23258.7	23646.8	23858.8	23765.5	24482.3	26208.4	23854.6
70°	19615.5	19573.1	20521.0	23008.5	20247.4	19657.9	19833.9	19541.3	21125.4	24772.8	21596.1
72.5°	17155.6	17308.3	18326.2	20408.6	16031.7	15073.2	15457.0	14700.0	16248.0	21216.6	17528.8
75°	13438.2	13474.3	15172.9	17128.0	12093.8	10581.8	11101.3	10785.3	12445.8	17698.5	12104.4
77.5°	9305.2	9224.6	11050.4	13081.9	8624.5	7746.5	7755.0	7604.5	8690.2	13031.1	8223.7
80°	5910.1	5787.1	6917.4	8081.6	5927.1	6340.6	6132.8	6126.4	5657.7	8039.2	4972.8
82.5°	3193.6	3329.3	4370.5	5066.1	4251.8	4900.7	4491.4	4359.9	3882.8	5032.2	3180.9
85°	1454.7	1582.0	2330.5	3446.0	3229.7	3265.7	2182.1	2574.4	3212.7	4086.4	1698.6
87.5°	142.1	182.4	481.4	1626.5	1102.7	869.4	324.5	625.6	807.9	1452.6	135.7
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°	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5
2.5°	10980.4	10870.2	10494.8	10185.2	9856.5	9606.3	9279.7	9061.3	8910.7	8683.8	8656.3
5°	10475.7	10206.4	9553.3	8887.4	8312.7	7880.1	7441.2	7038.3	6800.7	6726.5	6631.1
7.5°	9625.4	9171.6	8331.8	7568.4	6908.9	6264.2	5768.0	5416.0	5180.6	5042.8	4877.4
10°	8925.6	8399.7	7377.5	6442.4	5899.5	5498.7	5061.9	4684.4	4393.9	4145.8	4010.0
12.5°	8454.8	7861.0	6711.7	5952.5	5532.6	5106.4	4595.3	4171.2	3742.8	3460.8	3339.9
15°	8312.7	7685.0	6506.0	5708.6	5106.4	4548.7	3976.1	3422.6	2998.5	2731.3	2642.3
17.5°	8660.5	7901.3	6503.9	5384.2	4605.9	3940.1	3206.3	2686.8	2252.1	2052.7	1989.1
20°	9309.4	8317.0	6522.9	5064.0	4063.1	3125.8	2332.7	1906.4	1698.6	1613.8	1582.0
22.5°	10214.9	8951.0	6580.2	4748.0	3469.3	2400.5	1747.4	1531.1	1456.8	1442.0	1435.6
25°	11330.3	9735.7	6773.2	4463.9	2968.8	1832.2	1461.1	1363.5	1321.1	1306.3	1304.2
27.5°	12356.7	10749.3	7006.4	4220.0	2485.3	1579.8	1321.1	1238.4	1196.0	1193.9	1198.1
30°	13283.4	11597.5	7201.5	3946.4	2118.5	1403.8	1229.9	1147.2	1107.0	1104.8	1117.6
32.5°	14085.0	12295.2	7345.7	3677.1	1914.9	1295.7	1147.2	1058.2	1024.2	1017.9	1024.2
35°	14941.7	12990.8	7280.0	3467.2	1798.3	1206.6	1085.7	998.8	958.5	939.4	939.4
37.5°	15919.3	13707.5	7167.6	3293.3	1745.2	1132.4	1032.7	947.9	907.6	888.5	886.4
40°	16986.0	14424.3	7012.8	3138.5	1692.2	1087.9	996.7	907.6	858.8	839.8	835.5
42.5°	17927.5	15037.1	6885.6	3036.7	1605.3	1096.3	964.9	877.9	816.4	791.0	788.9
45°	18746.1	15654.2	6862.2	2977.3	1533.2	1083.6	956.4	854.6	782.5	754.9	750.7
47.5°	19386.5	16296.8	6995.8	2943.4	1454.7	1015.8	1011.5	839.8	752.8	723.1	718.9
50°	20166.9	17208.6	7301.2	2873.4	1382.6	952.1	1068.8	837.6	729.5	691.3	680.7
52.5°	21205.9	18396.2	7714.7	2748.3	1278.7	892.8	1020.0	837.6	701.9	663.7	651.0
55°	22777.3	19910.3	8119.8	2572.3	1132.4	814.3	920.3	812.2	661.6	627.7	619.2
57.5°	23818.5	21017.2	8378.5	2328.4	950.0	757.1	793.1	771.9	621.3	585.3	585.3
60°	23871.5	21314.1	8255.5	2020.9	835.5	704.0	689.2	778.3	585.3	547.1	542.9
62.5°	23260.8	20586.7	7615.1	1745.2	774.0	646.8	623.5	682.8	549.2	511.1	504.7
65°	22306.5	18731.2	6503.9	1613.8	740.1	595.9	562.0	559.8	511.1	475.0	466.5
67.5°	20552.8	16368.9	5343.9	1537.4	723.1	538.6	506.8	496.2	466.5	436.8	432.6
70°	17967.8	13709.6	4285.7	1505.6	714.6	479.3	453.8	441.1	415.6	392.3	390.2
72.5°	13979.0	11120.4	3537.2	1484.4	710.4	424.1	396.6	379.6	364.7	343.5	343.5
75°	10041.0	8181.3	2699.5	1338.1	657.4	364.7	335.1	324.5	303.2	286.3	290.5
77.5°	6330.0	5509.3	1777.1	984.0	508.9	292.6	267.2	260.8	243.9	220.5	235.4
80°	4275.1	3874.3	1037.0	619.2	320.2	214.2	205.7	203.6	184.5	159.0	161.2
82.5°	2909.5	2854.3	538.6	352.0	184.5	125.1	120.9	125.1	103.9	84.8	84.8
85°	1136.6	1552.3	254.5	137.8	59.4	19.1	27.6	29.7	17.0	8.5	10.6
87.5°	21.2	159.0	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°	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5
2.5°	8613.9	8594.8	8626.6	8490.9	8518.4	8569.3	8594.8	8609.6	8819.6	8770.8	8904.4
5°	6720.2	6701.1	6824.1	6841.0	6904.7	6891.9	6953.4	6968.3	7044.6	7072.2	7258.8
7.5°	4888.0	4970.7	5110.6	5182.7	5290.9	5324.8	5293.0	5371.5	5212.4	5326.9	5360.9
10°	3927.3	3827.7	3768.3	3933.7	3954.9	4111.8	4048.2	3997.3	4090.6	4094.9	4183.9
12.5°	3270.0	3055.8	2913.7	2960.4	3011.2	3079.1	3089.7	3191.5	3259.4	3323.0	3376.0
15°	2563.8	2489.6	2360.2	2296.6	2368.7	2396.3	2462.0	2546.8	2618.9	2638.0	2710.1
17.5°	1967.9	1980.6	1959.4	1921.3	1965.8	1987.0	1991.2	1993.4	2012.4	1999.7	2105.8
20°	1584.1	1628.6	1681.6	1690.1	1705.0	1715.6	1696.5	1624.4	1626.5	1671.0	1705.0
22.5°	1433.5	1442.0	1501.4	1520.5	1567.1	1548.0	1492.9	1459.0	1454.7	1465.3	1482.3
25°	1314.8	1327.5	1369.9	1399.6	1435.6	1401.7	1361.4	1329.6	1325.4	1336.0	1352.9
27.5°	1208.7	1227.8	1266.0	1295.7	1329.6	1297.8	1259.6	1232.1	1229.9	1227.8	1238.4
30°	1123.9	1145.1	1172.7	1206.6	1229.9	1202.4	1166.3	1151.5	1149.4	1145.1	1149.4
32.5°	1039.1	1073.0	1100.6	1117.6	1140.9	1119.7	1092.1	1083.6	1068.8	1056.1	1049.7
35°	943.7	979.7	1022.1	1043.3	1066.7	1045.5	1026.4	990.3	964.9	962.8	967.0
37.5°	888.5	903.4	937.3	973.4	996.7	986.1	950.0	914.0	907.6	907.6	911.9
40°	839.8	846.1	861.0	907.6	950.0	918.2	873.7	863.1	863.1	861.0	863.1
42.5°	791.0	797.3	797.3	833.4	901.3	850.4	816.4	816.4	816.4	818.5	824.9
45°	746.4	748.6	746.4	771.9	835.5	793.1	769.8	776.1	780.4	784.6	788.9
47.5°	708.3	710.4	708.3	729.5	761.3	744.3	731.6	740.1	748.6	754.9	759.2
50°	674.3	672.2	676.5	689.2	704.0	708.3	699.8	712.5	716.8	725.2	735.8
52.5°	644.7	642.5	646.8	653.1	674.3	674.3	674.3	685.0	693.4	701.9	716.8
55°	610.7	612.9	619.2	627.7	655.3	651.0	653.1	661.6	670.1	682.8	691.3
57.5°	578.9	583.2	591.6	604.4	631.9	629.8	631.9	636.2	646.8	653.1	661.6
60°	542.9	551.4	562.0	570.4	598.0	595.9	606.5	615.0	621.3	621.3	625.6
62.5°	506.8	519.5	530.1	536.5	566.2	568.3	583.2	589.5	593.8	589.5	595.9
65°	470.8	489.9	494.1	502.6	532.3	534.4	551.4	566.2	562.0	557.7	568.3
67.5°	434.7	458.0	455.9	466.5	496.2	500.5	515.3	540.8	532.3	528.0	536.5
70°	394.4	411.4	413.5	419.9	460.2	453.8	477.1	500.5	494.1	496.2	496.2
72.5°	349.9	364.7	364.7	377.5	419.9	409.3	428.4	453.8	453.8	451.7	451.7
75°	296.9	305.4	313.8	332.9	377.5	364.7	377.5	400.8	405.0	400.8	400.8
77.5°	239.6	252.4	256.6	282.0	313.8	311.7	324.5	335.1	343.5	339.3	339.3
80°	169.6	182.4	199.3	226.9	246.0	252.4	258.7	267.2	271.4	271.4	275.7
82.5°	95.4	114.5	129.4	156.9	165.4	197.2	195.1	201.5	195.1	171.8	190.9
85°	21.2	40.3	57.3	72.1	82.7	114.5	120.9	135.7	112.4	103.9	103.9
87.5°	0.0	0.0	0.0	0.0	0.0	17.0	33.9	46.7	40.3	33.9	33.9
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5	10331.5
2.5°	9016.8	9201.3	9423.9	9807.8	10077.1	10367.6	10660.2	10972.0	11054.7	11139.5
5°	7309.7	7672.3	7869.5	8384.8	8925.6	9612.7	10174.6	10789.6	11046.2	11105.6
7.5°	5536.9	5782.9	6300.3	6822.0	7492.1	8213.1	9074.0	10032.5	10331.5	10456.7
10°	4389.6	4724.7	5178.5	5738.3	6325.7	7101.9	8073.1	9192.8	9616.9	9686.9
12.5°	3736.5	4109.7	4603.8	5195.5	5751.1	6336.3	7316.1	8471.8	8925.6	9076.1
15°	2987.9	3439.6	4010.0	4633.5	5237.9	5878.3	6870.7	8174.9	8698.7	8874.7
17.5°	2347.5	2712.2	3329.3	4005.8	4722.6	5532.6	6777.4	8317.0	8961.6	9124.9
20°	1796.1	2057.0	2576.5	3291.2	4130.9	5191.2	6800.7	8853.5	9625.4	9848.0
22.5°	1552.3	1685.9	2001.8	2682.6	3622.0	4894.3	6896.2	9589.3	10520.3	10891.4
25°	1406.0	1475.9	1654.1	2099.4	3136.4	4605.9	7114.6	10579.6	11771.4	12017.4
27.5°	1280.8	1331.7	1442.0	1762.2	2695.3	4338.7	7369.1	11678.1	12939.9	13306.7
30°	1162.1	1229.9	1333.9	1565.0	2413.2	4094.9	7689.3	12568.8	13923.8	14265.2
32.5°	1070.9	1138.8	1234.2	1427.2	2173.6	3838.3	7880.1	13351.3	14727.5	15018.1
35°	996.7	1053.9	1153.6	1316.9	1991.2	3643.2	7842.0	13972.6	15505.8	15802.7
37.5°	943.7	992.4	1092.1	1213.0	1853.4	3439.6	7822.9	14793.3	16453.7	16797.2
40°	894.9	945.8	1037.0	1145.1	1715.6	3200.0	7833.5	15607.6	17463.1	17806.6
42.5°	856.7	914.0	988.2	1126.0	1573.5	3007.0	7833.5	16315.9	18341.0	18671.8
45°	824.9	886.4	958.5	1123.9	1461.1	2860.7	7780.5	16924.5	19040.8	19322.9
47.5°	797.3	865.2	969.1	1085.7	1433.5	2754.7	7733.8	17412.2	19611.3	19876.3
50°	778.3	858.8	1030.6	1041.2	1442.0	2722.8	7958.6	18027.2	20113.8	20342.9
52.5°	763.4	861.0	1028.5	975.5	1427.2	2744.0	8427.2	18987.8	20811.5	20828.5
55°	733.7	858.8	975.5	901.3	1365.7	2780.1	9029.5	20383.2	21903.6	21916.3
57.5°	704.0	835.5	905.5	837.6	1240.5	2780.1	9754.7	21704.3	23220.5	23231.1
60°	674.3	869.4	795.2	782.5	1077.3	2729.2	10520.3	22285.3	23634.0	23742.2
62.5°	644.7	875.8	710.4	733.7	958.5	2606.2	11090.7	21642.8	23074.2	23229.0
65°	610.7	706.2	655.3	682.8	897.0	2400.5	10910.5	20465.9	22022.4	22206.9
67.5°	570.4	598.0	595.9	629.8	875.8	2097.3	9960.4	18977.2	20890.0	20879.4
70°	521.7	536.5	542.9	578.9	835.5	1861.9	8300.0	17045.3	19378.0	19615.5
72.5°	470.8	483.5	489.9	521.7	795.2	1728.3	6442.4	14384.0	16784.5	17155.6
75°	415.6	424.1	432.6	460.2	752.8	1531.1	4589.0	10980.4	12855.0	13438.2
77.5°	358.4	358.4	369.0	396.6	634.1	1263.9	3079.1	7702.0	8709.3	9305.2
80°	290.5	292.6	288.4	318.1	466.5	865.2	1749.5	5144.6	5795.6	5910.1
82.5°	222.7	216.3	218.4	233.3	347.8	589.5	933.1	3195.7	3257.2	3193.6
85°	140.0	140.0	135.7	152.7	222.7	307.5	508.9	1957.3	1528.9	1454.7
87.5°	57.3	46.7	53.0	61.5	106.0	125.1	199.3	402.9	154.8	142.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)