

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: P454698

Luminaire Tested: **GALN-SA5D-750-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454698  
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-SA5D-750-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 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: 33394 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

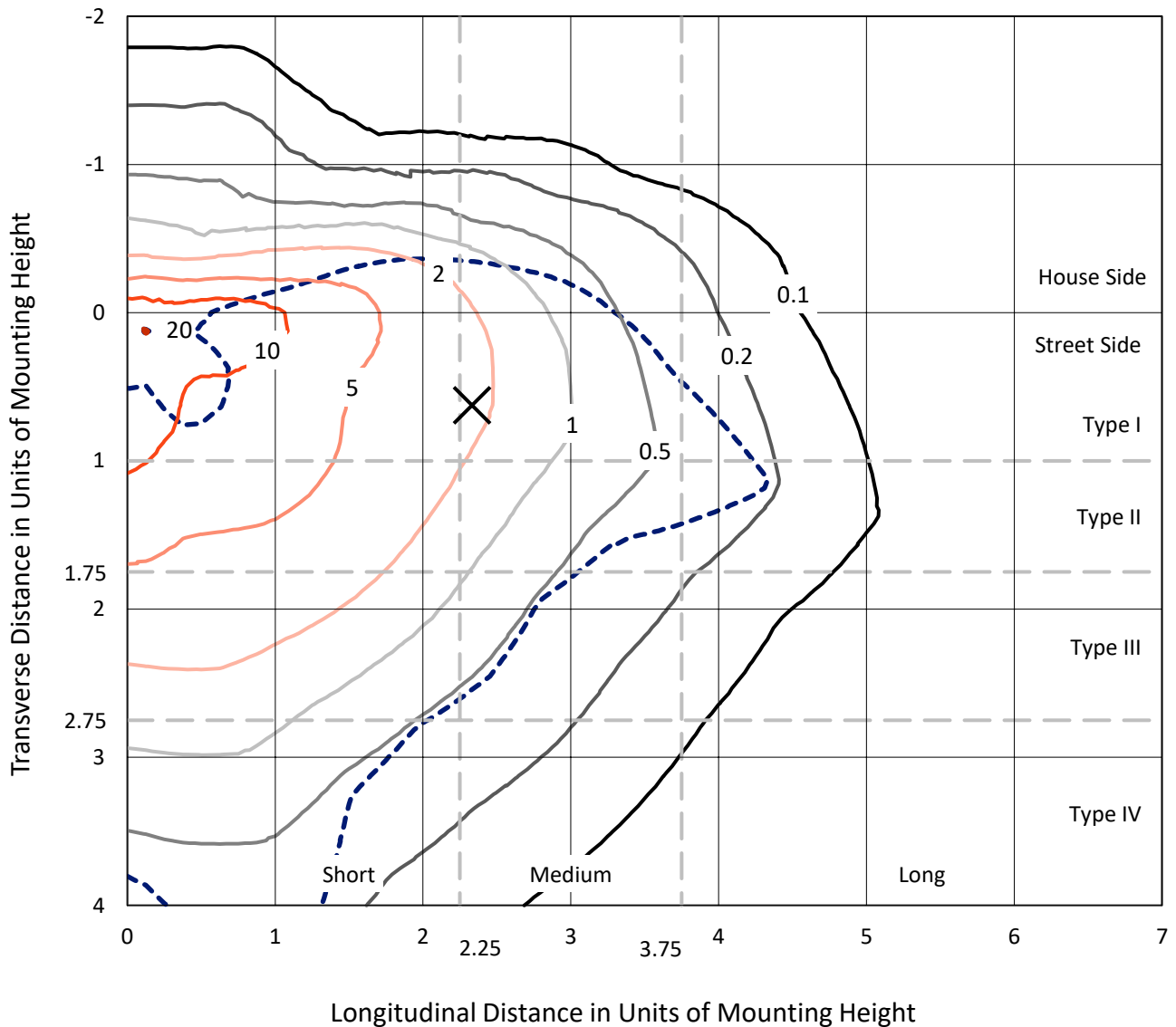
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

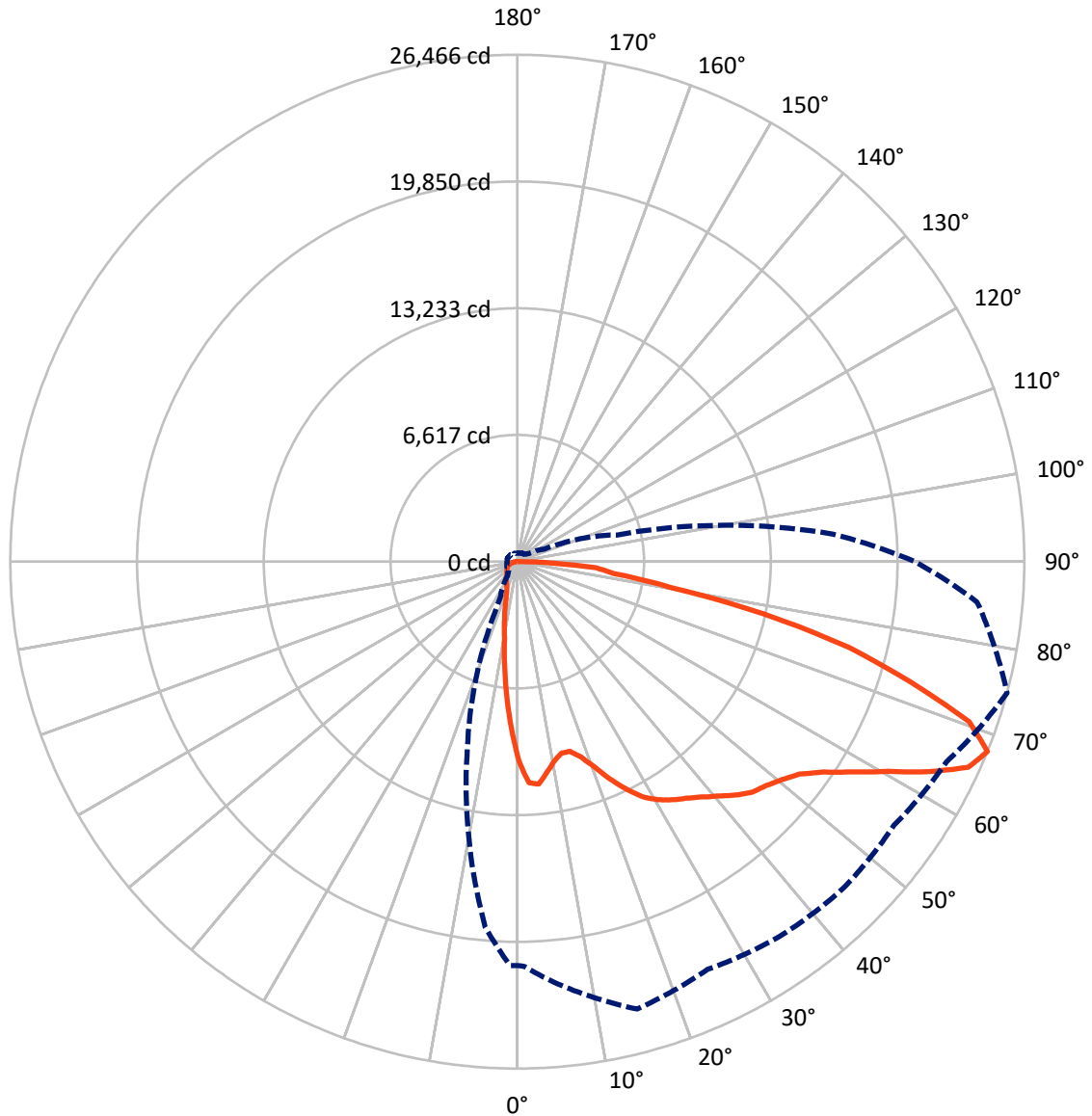
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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	5644.3	0.0	5644.3
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	27749.7	0.0	27749.7
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	33394.0	0.0	33394.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	791.3	2.4
10°-20°	1650.3	4.9
20°-30°	2374.8	7.1
30°-40°	3420.4	10.2
40°-50°	4804.8	14.4
50°-60°	6701.0	20.1
60°-70°	7967.0	23.9
70°-80°	4692.1	14.1
80°-90°	992.2	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°	33394.0	100.0
0°-180°	33394.0	100.0

**Coefficient of Utilization**



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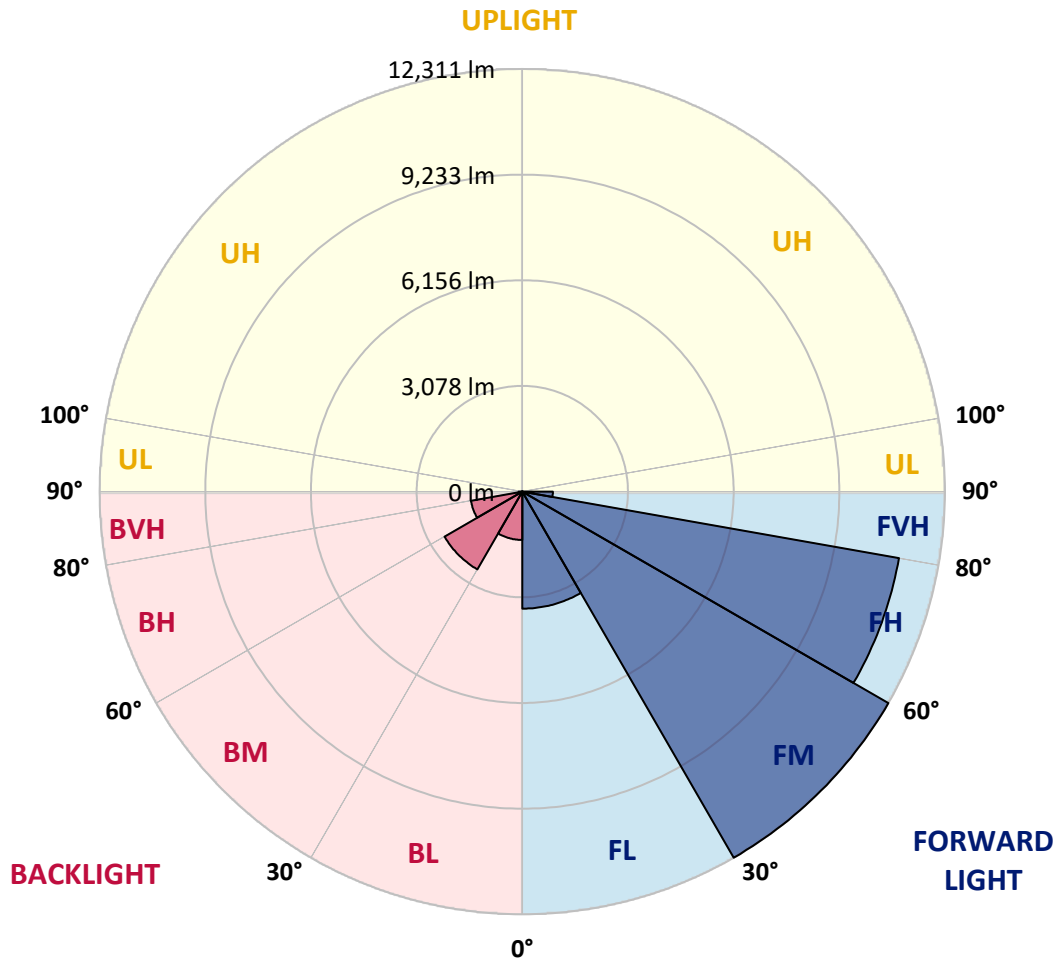
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3408.6	10.2			
FM	(30°-60°)	12311.1	36.9			
FH	(60°-80°)	11140.4	33.4			G4/12000
FVH	(80°-90°)	889.6	2.7			G5
BL	(0°-30°)	1407.9	4.2	B3/2500		
BM	(30°-60°)	2615.0	7.8	B3/5000		
BH	(60°-80°)	1518.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	102.6	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°	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1
2.5°	11249.0	11264.0	11360.3	11640.8	11833.6	11904.2	11953.5	11861.4	11771.5	11553.0	11223.3
5°	11214.7	11302.5	11553.0	12182.6	12679.4	12893.6	12957.8	12681.6	12225.5	11664.4	10989.8
7.5°	10559.4	10677.2	11062.7	12118.4	12994.2	13495.3	13428.9	12930.0	12107.7	11107.6	10165.4
10°	9782.1	9912.7	10377.4	11653.7	12782.2	13471.8	13471.8	12863.6	11771.5	10583.0	9497.3
12.5°	9165.3	9302.4	9833.5	11176.2	12341.1	12994.2	13103.4	12580.9	11529.5	10251.1	9058.3
15°	8961.9	9094.7	9666.4	10887.1	11874.3	12272.6	12309.0	12137.7	11411.7	10274.6	9039.0
17.5°	9214.6	9385.9	9964.1	10972.7	11446.0	11469.5	11497.4	11632.3	11424.6	10705.0	9428.7
20°	9944.8	10129.0	10732.9	11249.0	11071.2	10827.1	10842.1	11189.0	11576.6	11416.0	10360.3
22.5°	10998.4	11159.0	11777.9	11735.1	10912.8	10409.5	10304.6	10788.6	11801.5	12302.5	11351.8
25°	12135.5	12324.0	13034.9	12456.7	10957.7	10161.1	10094.7	10553.0	12034.9	13131.3	12497.4
27.5°	13437.5	13621.7	14182.7	13184.8	11193.3	10141.8	10062.6	10531.6	12244.7	13897.9	13591.7
30°	14405.4	14574.6	14955.8	13797.3	11482.4	10270.3	10171.8	10700.8	12424.6	14422.6	14658.1
32.5°	15165.6	15341.2	15549.0	14178.4	11863.6	10503.7	10321.7	11009.1	12660.2	14823.0	15448.3
35°	15958.0	16165.7	16150.7	14516.8	12219.0	10773.6	10595.8	11454.5	13030.6	15172.1	16450.5
37.5°	16962.3	17045.8	16938.8	14820.9	12645.2	11259.7	11161.2	12116.2	13557.4	15593.9	17621.9
40°	17981.6	18148.7	17598.3	15189.2	13163.4	12174.1	12163.4	13094.9	14182.7	16088.6	18756.8
42.5°	18855.3	18996.7	18215.1	15510.4	13790.8	13289.8	13371.1	14407.6	15002.9	16662.5	19669.1
45°	19512.8	19639.1	18784.7	15820.9	14617.4	14578.9	15058.6	15814.5	16037.2	17178.6	20204.4
47.5°	20071.7	20193.7	19180.8	16292.0	15638.9	16118.6	16953.7	17281.4	16921.6	17474.1	20804.1
50°	20542.8	20579.2	19452.8	16853.1	16906.6	18005.2	18814.7	19026.7	17795.3	17898.1	21324.4
52.5°	21033.2	20986.1	19921.8	17559.8	18277.2	19795.4	20384.3	20604.9	18632.6	18420.6	22082.5
55°	22131.7	22176.7	20973.2	18450.6	19662.7	21553.6	22328.8	22116.8	19559.9	19382.1	23046.1
57.5°	23459.4	23420.9	22453.0	19844.7	21073.9	23189.6	23767.8	23427.3	20797.6	20703.4	24022.6
60°	23975.5	24026.9	23690.7	21343.7	22465.8	24622.2	25213.3	24684.3	22281.6	22238.8	24759.3
62.5°	23457.3	23746.4	23973.4	22677.8	23652.2	25675.8	26262.6	25658.7	23829.9	24140.4	25275.4
65°	22425.1	22487.2	23260.3	23808.5	24223.9	25849.3	26155.5	25834.3	25123.3	25872.8	25251.8
67.5°	21084.6	21138.1	22043.9	24179.0	23487.3	23879.2	24093.3	23999.1	24722.9	26466.0	24089.0
70°	19808.3	19765.5	20722.7	23234.6	20446.4	19851.1	20028.9	19733.3	21333.0	25016.3	21808.4
72.5°	17324.2	17478.4	18506.3	20609.2	16189.3	15221.3	15608.9	14844.4	16407.7	21425.1	17701.1
75°	13570.3	13606.7	15322.0	17296.4	12212.6	10685.8	11210.4	10891.3	12568.1	17872.4	12223.3
77.5°	9396.6	9315.2	11159.0	13210.5	8709.2	7822.7	7831.2	7679.2	8775.6	13159.1	8304.5
80°	5968.2	5844.0	6985.4	8161.0	5985.3	6402.9	6193.0	6186.6	5713.4	8118.2	5021.7
82.5°	3225.0	3362.1	4413.5	5115.9	4293.6	4948.9	4535.6	4402.8	3921.0	5081.6	3212.2
85°	1469.0	1597.5	2353.4	3479.8	3261.4	3297.8	2203.5	2599.7	3244.3	4126.5	1715.3
87.5°	143.5	184.2	486.1	1642.5	1113.5	878.0	327.6	631.7	815.9	1466.9	137.1
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1
2.5°	11088.4	10977.0	10598.0	10285.3	9953.4	9700.7	9370.9	9150.4	8998.3	8769.2	8741.3
5°	10578.7	10306.7	9647.2	8974.8	8394.4	7957.6	7514.3	7107.4	6867.6	6792.6	6696.3
7.5°	9720.0	9261.7	8413.7	7642.8	6976.8	6325.8	5824.7	5469.2	5231.5	5092.3	4925.3
10°	9013.3	8482.2	7450.1	6505.7	5957.5	5552.7	5111.6	4730.4	4437.1	4186.5	4049.5
12.5°	8537.9	7938.3	6777.6	6011.0	5587.0	5156.6	4640.5	4212.2	3779.6	3494.8	3372.8
15°	8394.4	7760.6	6569.9	5764.7	5156.6	4593.4	4015.2	3456.3	3028.0	2758.2	2668.2
17.5°	8745.6	7979.0	6567.8	5437.1	4651.2	3978.8	3237.9	2713.2	2274.2	2072.9	2008.7
20°	9400.9	8398.7	6587.1	5113.7	4103.0	3156.5	2355.6	1925.2	1715.3	1629.6	1597.5
22.5°	10315.3	9039.0	6644.9	4794.7	3503.4	2424.1	1764.5	1546.1	1471.2	1456.2	1449.8
25°	11441.7	9831.3	6839.7	4507.7	2998.0	1850.2	1475.4	1376.9	1334.1	1319.1	1317.0
27.5°	12478.1	10854.9	7075.3	4261.5	2509.8	1595.4	1334.1	1250.6	1207.8	1205.6	1209.9
30°	13414.0	11711.5	7272.3	3985.2	2139.3	1417.6	1242.0	1158.5	1117.8	1115.7	1128.5
32.5°	14223.4	12416.0	7417.9	3713.2	1933.7	1308.4	1158.5	1068.6	1034.3	1027.9	1034.3
35°	15088.6	13118.4	7351.5	3501.2	1815.9	1218.5	1096.4	1008.6	967.9	948.7	948.7
37.5°	16075.8	13842.2	7238.1	3325.6	1762.4	1143.5	1042.9	957.2	916.5	897.3	895.1
40°	17152.9	14566.0	7081.7	3169.3	1708.9	1098.6	1006.5	916.5	867.3	848.0	843.7
42.5°	18103.7	15184.9	6953.2	3066.5	1621.1	1107.1	974.4	886.6	824.5	798.8	796.6
45°	18930.3	15808.1	6929.7	3006.6	1548.3	1094.3	965.8	863.0	790.2	762.4	758.1
47.5°	19577.0	16456.9	7064.6	2972.3	1469.0	1025.7	1021.5	848.0	760.2	730.2	725.9
50°	20365.1	17377.8	7373.0	2901.6	1396.2	961.5	1079.3	845.9	736.7	698.1	687.4
52.5°	21414.4	18577.0	7790.5	2775.3	1291.3	901.5	1030.0	845.9	708.8	670.3	657.4
55°	23001.2	20105.9	8199.6	2597.6	1143.5	822.3	929.4	820.2	668.1	633.9	625.3
57.5°	24052.6	21223.8	8460.8	2351.3	959.4	764.5	800.9	779.5	627.4	591.0	591.0
60°	24106.1	21523.6	8336.6	2040.8	843.7	711.0	696.0	785.9	591.0	552.5	548.2
62.5°	23489.4	20789.1	7689.9	1762.4	781.6	653.1	629.6	689.5	554.6	516.1	509.7
65°	22525.8	18915.3	6567.8	1629.6	747.4	601.7	567.5	565.3	516.1	479.7	471.1
67.5°	20754.8	16529.7	5396.4	1552.5	730.2	543.9	511.8	501.1	471.1	441.1	436.9
70°	18144.4	13844.4	4327.8	1520.4	721.7	484.0	458.3	445.4	419.7	396.2	394.0
72.5°	14116.3	11229.7	3571.9	1499.0	717.4	428.3	400.4	383.3	368.3	346.9	346.9
75°	10139.7	8261.7	2726.0	1351.2	663.8	368.3	338.3	327.6	306.2	289.1	293.4
77.5°	6392.2	5563.5	1794.5	993.6	513.9	295.5	269.8	263.4	246.3	222.7	237.7
80°	4317.1	3912.4	1047.2	625.3	323.4	216.3	207.7	205.6	186.3	160.6	162.7
82.5°	2938.1	2882.4	543.9	355.5	186.3	126.3	122.1	126.3	104.9	85.7	85.7
85°	1147.8	1567.5	257.0	139.2	60.0	19.3	27.8	30.0	17.1	8.6	10.7
87.5°	21.4	160.6	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°	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1
2.5°	8698.5	8679.2	8711.4	8574.3	8602.1	8653.5	8679.2	8694.2	8906.2	8857.0	8991.9
5°	6786.2	6766.9	6891.1	6908.3	6972.5	6959.7	7021.8	7036.8	7113.9	7141.7	7330.1
7.5°	4936.0	5019.5	5160.9	5233.7	5342.9	5377.1	5345.0	5424.3	5263.6	5379.3	5413.6
10°	3965.9	3865.3	3805.3	3972.4	3993.8	4152.2	4088.0	4036.6	4130.8	4135.1	4225.1
12.5°	3302.1	3085.8	2942.3	2989.4	3040.8	3109.4	3120.1	3222.9	3291.4	3355.6	3409.2
15°	2589.0	2514.0	2383.4	2319.2	2392.0	2419.8	2486.2	2571.9	2644.7	2663.9	2736.8
17.5°	1987.3	2000.1	1978.7	1940.1	1985.1	2006.5	2010.8	2012.9	2032.2	2019.4	2126.4
20°	1599.7	1644.6	1698.2	1706.7	1721.7	1732.4	1713.1	1640.3	1642.5	1687.5	1721.7
22.5°	1447.6	1456.2	1516.1	1535.4	1582.5	1563.2	1507.6	1473.3	1469.0	1479.7	1496.9
25°	1327.7	1340.5	1383.4	1413.3	1449.8	1415.5	1374.8	1342.7	1338.4	1349.1	1366.2
27.5°	1220.6	1239.9	1278.4	1308.4	1342.7	1310.6	1272.0	1244.2	1242.0	1239.9	1250.6
30°	1135.0	1156.4	1184.2	1218.5	1242.0	1214.2	1177.8	1162.8	1160.7	1156.4	1160.7
32.5°	1049.3	1083.6	1111.4	1128.5	1152.1	1130.7	1102.8	1094.3	1079.3	1066.4	1060.0
35°	952.9	989.3	1032.2	1053.6	1077.1	1055.7	1036.5	1000.1	974.4	972.2	976.5
37.5°	897.3	912.3	946.5	982.9	1006.5	995.8	959.4	923.0	916.5	916.5	920.8
40°	848.0	854.4	869.4	916.5	959.4	927.2	882.3	871.6	871.6	869.4	871.6
42.5°	798.8	805.2	805.2	841.6	910.1	858.7	824.5	824.5	824.5	826.6	833.0
45°	753.8	755.9	753.8	779.5	843.7	800.9	777.3	783.8	788.0	792.3	796.6
47.5°	715.2	717.4	715.2	736.7	768.8	751.6	738.8	747.4	755.9	762.4	766.6
50°	681.0	678.8	683.1	696.0	711.0	715.2	706.7	719.5	723.8	732.4	743.1
52.5°	651.0	648.9	653.1	659.6	681.0	681.0	681.0	691.7	700.2	708.8	723.8
55°	616.7	618.9	625.3	633.9	661.7	657.4	659.6	668.1	676.7	689.5	698.1
57.5°	584.6	588.9	597.5	610.3	638.1	636.0	638.1	642.4	653.1	659.6	668.1
60°	548.2	556.8	567.5	576.0	603.9	601.7	612.5	621.0	627.4	627.4	631.7
62.5°	511.8	524.7	535.4	541.8	571.8	573.9	588.9	595.3	599.6	595.3	601.7
65°	475.4	494.7	499.0	507.5	537.5	539.6	556.8	571.8	567.5	563.2	573.9
67.5°	439.0	462.6	460.4	471.1	501.1	505.4	520.4	546.1	537.5	533.2	541.8
70°	398.3	415.4	417.6	424.0	464.7	458.3	481.8	505.4	499.0	501.1	501.1
72.5°	353.3	368.3	368.3	381.2	424.0	413.3	432.6	458.3	458.3	456.1	456.1
75°	299.8	308.4	316.9	336.2	381.2	368.3	381.2	404.7	409.0	404.7	404.7
77.5°	242.0	254.8	259.1	284.8	316.9	314.8	327.6	338.3	346.9	342.6	342.6
80°	171.3	184.2	201.3	229.1	248.4	254.8	261.3	269.8	274.1	274.1	278.4
82.5°	96.4	115.6	130.6	158.5	167.0	199.2	197.0	203.4	197.0	173.5	192.7
85°	21.4	40.7	57.8	72.8	83.5	115.6	122.1	137.1	113.5	104.9	104.9
87.5°	0.0	0.0	0.0	0.0	0.0	17.1	34.3	47.1	40.7	34.3	34.3
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°	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1	10433.1
2.5°	9105.4	9291.7	9516.5	9904.1	10176.1	10469.5	10765.0	11079.8	11163.3	11249.0
5°	7381.5	7747.7	7946.9	8467.2	9013.3	9707.1	10274.6	10895.6	11154.7	11214.7
7.5°	5591.3	5839.7	6362.2	6889.0	7565.7	8293.8	9163.2	10131.1	10433.1	10559.4
10°	4432.8	4771.1	5229.4	5794.7	6387.9	7171.7	8152.4	9283.1	9711.4	9782.1
12.5°	3773.2	4150.1	4649.1	5246.5	5807.6	6398.6	7388.0	8555.0	9013.3	9165.3
15°	3017.3	3473.4	4049.5	4679.0	5289.3	5936.1	6938.3	8255.2	8784.2	8961.9
17.5°	2370.6	2738.9	3362.1	4045.2	4769.0	5587.0	6844.0	8398.7	9049.7	9214.6
20°	1813.8	2077.2	2601.8	3323.5	4171.5	5242.2	6867.6	8940.5	9720.0	9944.8
22.5°	1567.5	1702.4	2021.5	2708.9	3657.6	4942.4	6963.9	9683.6	10623.7	10998.4
25°	1419.8	1490.4	1670.3	2120.0	3167.2	4651.2	7184.5	10683.6	11887.1	12135.5
27.5°	1293.4	1344.8	1456.2	1779.5	2721.8	4381.4	7441.5	11792.9	13067.0	13437.5
30°	1173.5	1242.0	1347.0	1580.4	2437.0	4135.1	7764.8	12692.3	14060.7	14405.4
32.5°	1081.4	1150.0	1246.3	1441.2	2195.0	3876.0	7957.6	13482.5	14872.3	15165.6
35°	1006.5	1064.3	1164.9	1329.8	2010.8	3679.0	7919.0	14109.9	15658.2	15958.0
37.5°	952.9	1002.2	1102.8	1224.9	1871.6	3473.4	7899.8	14938.7	16615.4	16962.3
40°	903.7	955.1	1047.2	1156.4	1732.4	3231.4	7910.5	15761.0	17634.7	17981.6
42.5°	865.1	923.0	997.9	1137.1	1588.9	3036.6	7910.5	16476.2	18521.3	18855.3
45°	833.0	895.1	967.9	1135.0	1475.4	2888.8	7856.9	17090.8	19228.0	19512.8
47.5°	805.2	873.7	978.6	1096.4	1447.6	2781.7	7809.8	17583.3	19804.0	20071.7
50°	785.9	867.3	1040.7	1051.4	1456.2	2749.6	8036.8	18204.3	20311.5	20542.8
52.5°	770.9	869.4	1038.6	985.1	1441.2	2771.0	8510.1	19174.4	21016.1	21033.2
55°	740.9	867.3	985.1	910.1	1379.1	2807.4	9118.2	20583.5	22118.9	22131.7
57.5°	711.0	843.7	914.4	845.9	1252.7	2807.4	9850.6	21917.6	23448.7	23459.4
60°	681.0	878.0	803.0	790.2	1087.8	2756.0	10623.7	22504.4	23866.3	23975.5
62.5°	651.0	884.4	717.4	740.9	967.9	2631.8	11199.7	21855.5	23301.0	23457.3
65°	616.7	713.1	661.7	689.5	905.8	2424.1	11017.7	20667.0	22238.8	22425.1
67.5°	576.0	603.9	601.7	636.0	884.4	2117.9	10058.3	19163.7	21095.3	21084.6
70°	526.8	541.8	548.2	584.6	843.7	1880.2	8381.6	17212.9	19568.4	19808.3
72.5°	475.4	488.2	494.7	526.8	803.0	1745.3	6505.7	14525.4	16949.5	17324.2
75°	419.7	428.3	436.9	464.7	760.2	1546.1	4634.1	11088.4	12981.4	13570.3
77.5°	361.9	361.9	372.6	400.4	640.3	1276.3	3109.4	7777.7	8794.9	9396.6
80°	293.4	295.5	291.2	321.2	471.1	873.7	1766.7	5195.1	5852.5	5968.2
82.5°	224.9	218.4	220.6	235.6	351.2	595.3	942.2	3227.1	3289.2	3225.0
85°	141.3	141.3	137.1	154.2	224.9	310.5	513.9	1976.5	1544.0	1469.0
87.5°	57.8	47.1	53.5	62.1	107.1	126.3	201.3	406.9	156.3	143.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)