

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: P534399

Luminaire Tested: **GALN-SA9D-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-827-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28501 lumens  
Efficiency: N/A  
Efficacy: 51.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

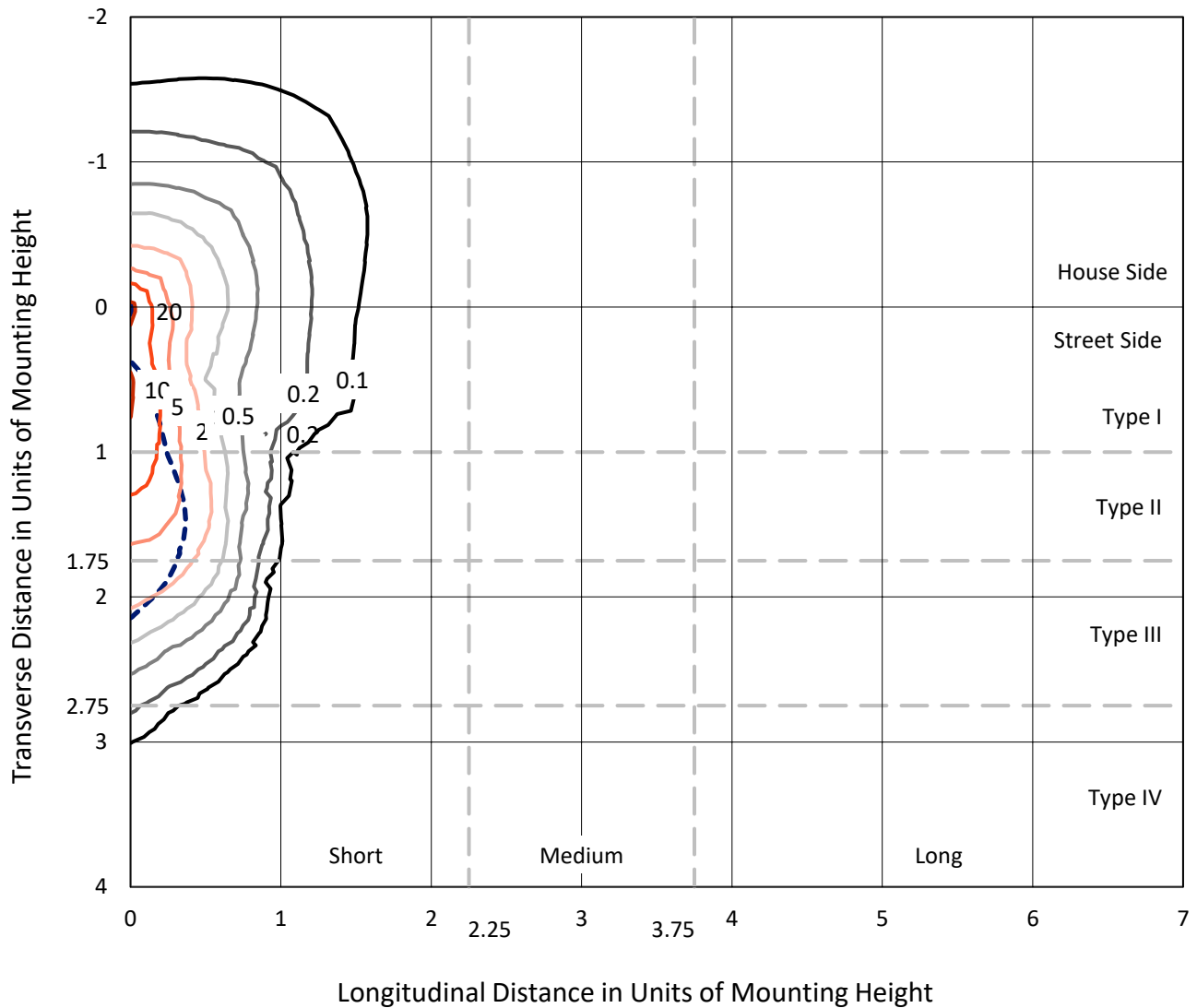
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

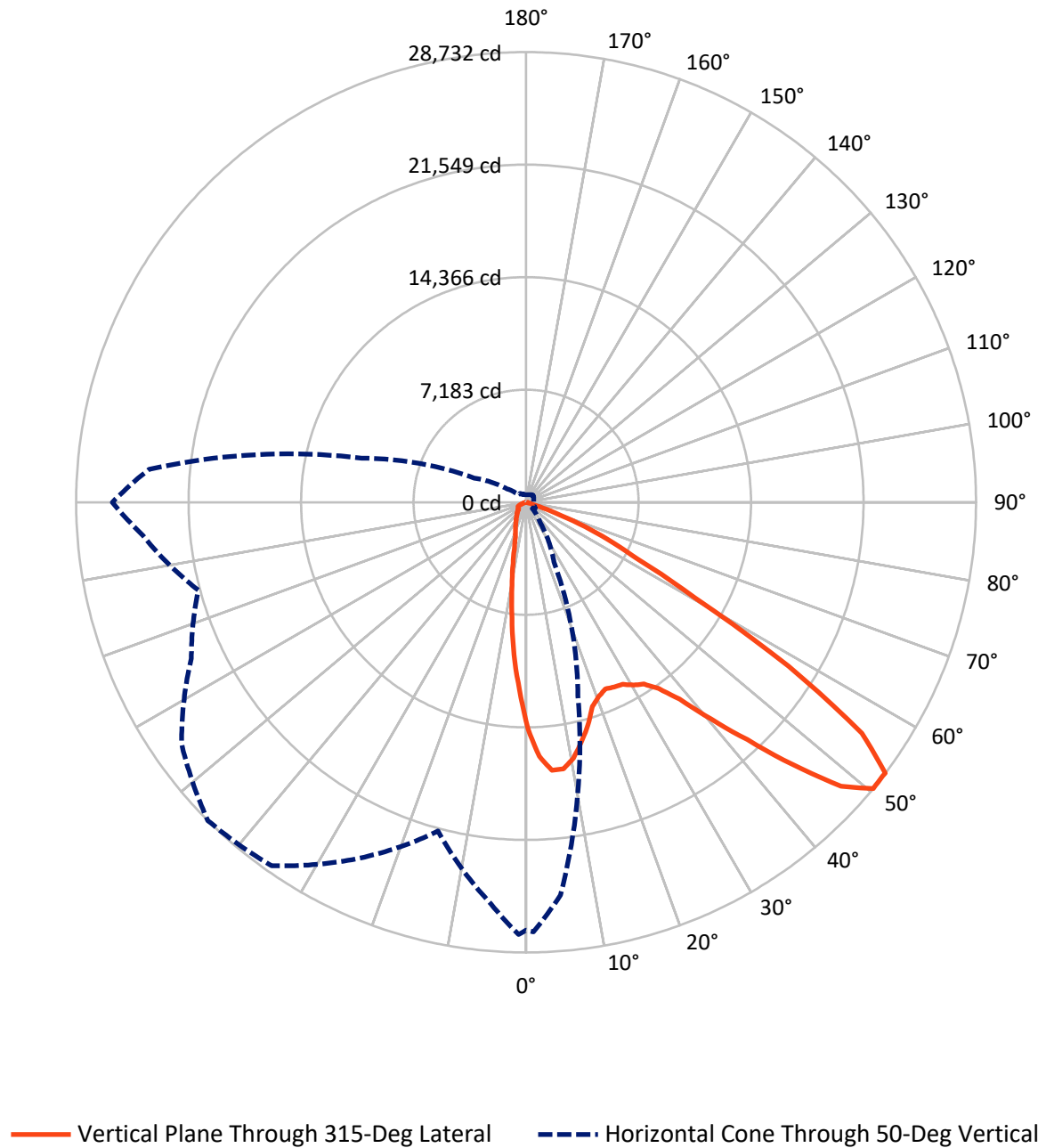
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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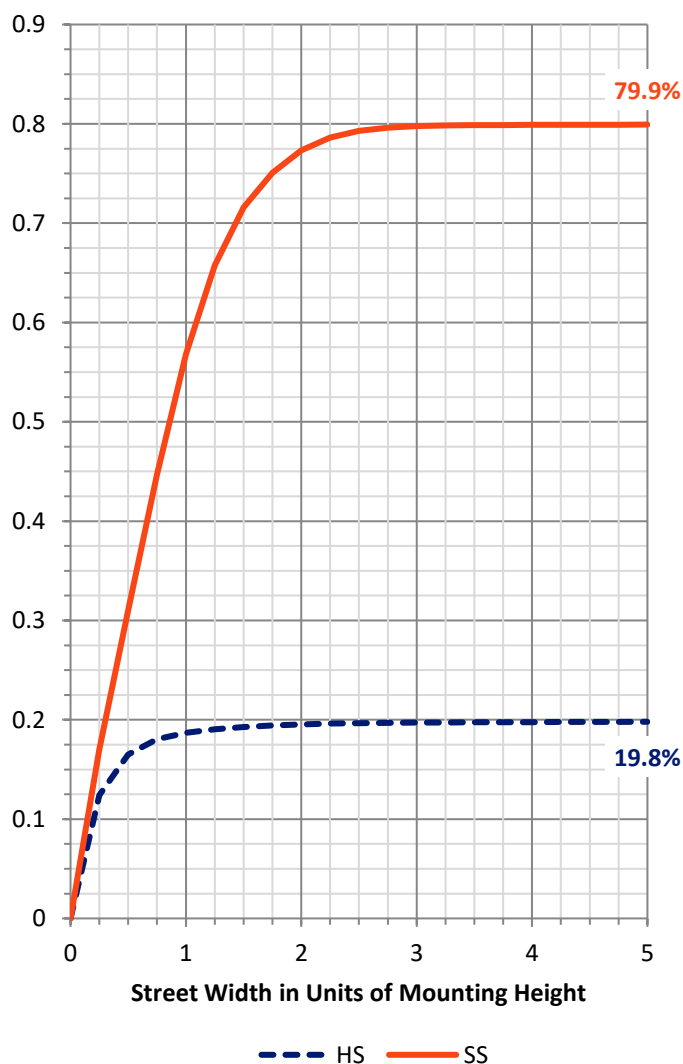
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5708.7	0.0	5708.7
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	22792.3	0.0	22792.3
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	28501.0	0.0	28501.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1053.5	3.7
10°-20°	2093.8	7.3
20°-30°	3145.5	11.0
30°-40°	4721.4	16.6
40°-50°	6635.6	23.3
50°-60°	7157.6	25.1
60°-70°	3323.3	11.7
70°-80°	312.7	1.1
80°-90°	57.6	0.2
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°	28501.0	100.0
0°-180°	28501.0	100.0

**Coefficient of Utilization**



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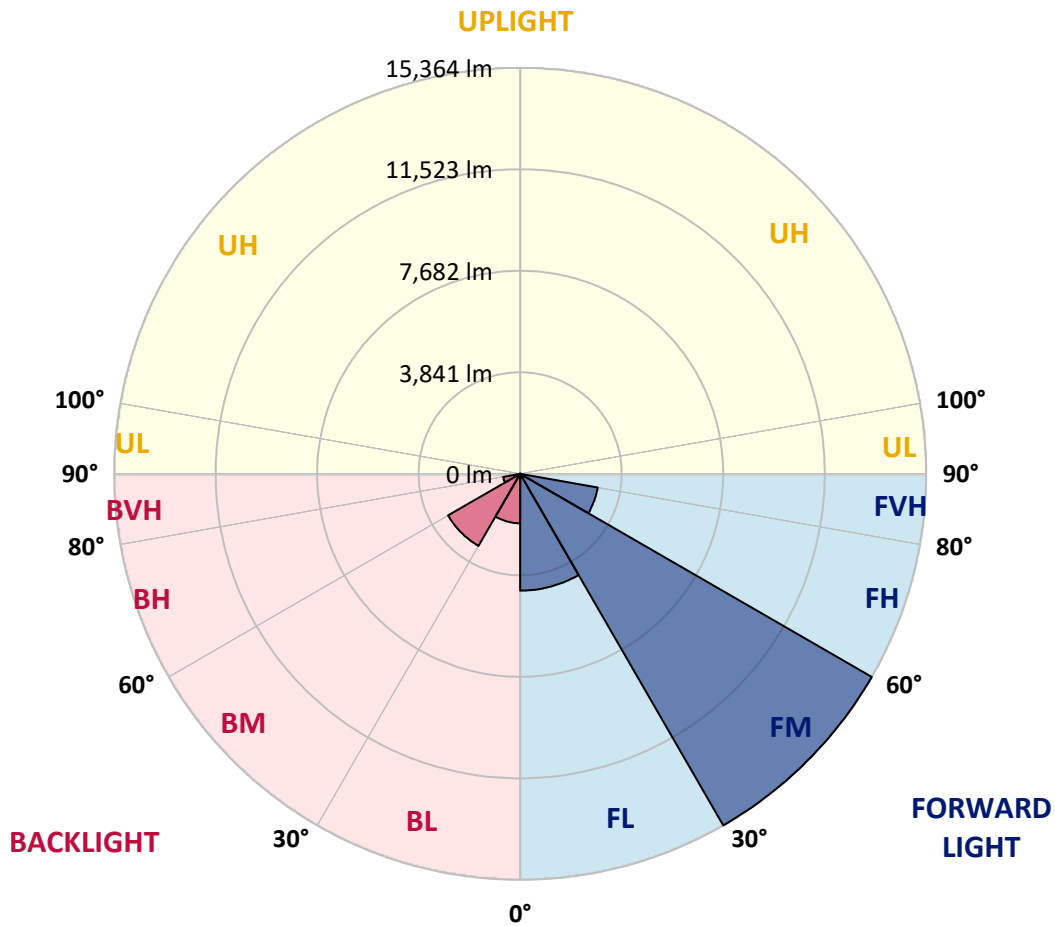
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4421.7	15.5			
FM (30°-60°)	15364.2	53.9			
FH (60°-80°)	2980.4	10.5			G2/5000
FVH (80°-90°)	26.0	0.1			G1/100
BL (0°-30°)	1871.2	6.6	B3/2500		
BM (30°-60°)	3150.4	11.1	B3/5000		
BH (60°-80°)	655.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	31.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6
2.5°	15024.7	14792.9	14498.8	14255.7	13893.8	13164.3	12966.4	12728.9	12531.0	12265.2	11892.0
5°	13661.9	13588.4	13452.7	12536.6	11875.0	10992.9	10269.1	9963.7	9562.2	9234.2	8996.7
7.5°	12621.5	12327.4	11897.6	10975.9	9918.5	8974.1	8171.1	7701.8	7170.3	6989.3	6667.0
10°	11507.5	11575.3	10942.0	9647.0	8369.1	7605.7	7108.0	6655.7	6175.0	5858.3	5400.3
12.5°	11151.2	10930.7	10444.4	8844.1	7752.7	7040.2	6435.1	5875.3	5366.4	4857.4	4416.4
15°	11383.1	11043.8	10365.2	8674.4	7277.7	6389.9	5632.2	4874.4	4405.1	3754.8	3296.7
17.5°	12214.3	11942.9	11032.5	8855.4	7034.5	5767.9	4642.6	3862.2	3144.1	2556.0	2324.1
20°	13599.7	13215.2	12072.9	9087.2	6672.6	5015.8	3766.1	2804.8	2126.2	1877.4	1747.3
22.5°	14956.9	14747.6	13305.7	9533.9	6350.3	4348.5	2827.4	1888.7	1589.0	1543.8	1458.9
25°	17541.1	16913.4	15188.7	10342.6	6101.5	3720.8	2131.8	1521.1	1345.8	1311.9	1323.2
27.5°	19079.2	18553.3	16930.4	10879.8	5824.4	3240.2	1803.9	1396.7	1278.0	1204.5	1176.2
30°	20555.1	19944.4	17795.6	11196.5	5230.7	2731.3	1600.3	1340.2	1311.9	1204.5	1170.5
32.5°	21691.7	21092.3	19045.3	11671.5	4987.5	2403.3	1317.6	1046.1	972.6	961.3	1063.1
35°	23433.4	22794.4	20114.0	11931.6	4800.9	2233.6	1142.3	933.0	848.2	814.3	819.9
37.5°	25056.3	24620.9	21103.6	12033.4	4603.0	2182.7	1023.5	836.9	763.4	740.8	735.1
40°	26413.4	25440.8	22042.3	12140.8	4518.2	2086.6	950.0	763.4	712.5	678.6	678.6
42.5°	27035.5	26045.9	23094.1	12078.6	4495.5	1933.9	950.0	701.2	661.6	627.7	622.0
45°	26899.8	26498.3	23563.4	12050.3	4495.5	1781.3	865.2	684.2	627.7	582.4	571.1
47.5°	27250.4	26724.5	24151.5	12169.1	4405.1	1673.8	729.5	718.2	593.8	537.2	525.9
50°	27312.6	27414.3	25175.0	12785.4	4207.2	1538.1	571.1	706.8	571.1	486.3	475.0
52°	27719.7	27086.4	25486.1	13113.4	3997.9	1436.3	480.7	605.1	548.5	452.4	441.1
52.5°	27159.9	27572.7	25559.6	13232.2	4020.5	1368.5	463.7	593.8	537.2	452.4	424.1
55°	26532.2	26928.0	25259.9	13486.6	3686.9	1074.4	361.9	429.8	486.3	395.8	378.9
57.5°	23060.2	23461.7	21951.8	12350.0	3002.7	757.7	299.7	322.3	429.8	367.6	350.6
60°	20498.6	20210.2	18423.3	10303.0	2131.8	424.1	237.5	248.8	469.3	339.3	333.6
62.5°	18734.3	18117.9	15397.9	7956.3	1300.6	282.7	186.6	192.3	361.9	316.7	316.7
65°	13859.8	13170.0	10229.5	4812.2	639.0	197.9	141.4	152.7	226.2	271.4	271.4
67.5°	7911.0	7645.3	4942.3	2171.4	265.8	124.4	107.4	118.8	175.3	220.5	209.2
70°	3636.0	3262.8	1900.0	458.0	124.4	84.8	84.8	96.1	141.4	164.0	152.7
72.5°	1063.1	1006.5	463.7	73.5	50.9	50.9	56.5	73.5	107.4	124.4	113.1
75°	79.2	50.9	33.9	22.6	22.6	33.9	45.2	73.5	107.4	118.8	96.1
77.5°	5.7	11.3	5.7	5.7	17.0	33.9	50.9	90.5	141.4	147.0	107.4
80°	5.7	5.7	0.0	5.7	17.0	33.9	56.5	101.8	158.3	169.6	90.5
82.5°	0.0	0.0	0.0	5.7	22.6	45.2	67.9	107.4	147.0	181.0	96.1
85°	0.0	0.0	0.0	5.7	33.9	62.2	79.2	28.3	17.0	0.0	0.0
87.5°	0.0	0.0	0.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6
2.5°	12157.8	12010.7	11954.2	12005.1	11988.1	11971.2	12282.2	12214.3	12203.0	12304.8	12282.2
5°	9126.8	8866.7	9579.2	9290.8	9590.5	9771.4	9805.4	9822.3	10031.6	9811.0	10099.4
7.5°	6503.0	6570.8	6565.2	6757.5	7102.4	7407.8	7588.7	7447.3	7436.0	7407.8	7283.3
10°	5196.7	5078.0	5055.4	5010.1	5117.6	5377.7	5598.2	5422.9	5298.5	5468.2	5417.3
12.5°	4246.7	4082.7	3992.3	3811.3	3817.0	3992.3	3992.3	3992.3	4116.7	4212.8	4286.3
15°	3257.1	3121.4	3121.4	2940.5	2900.9	2906.6	2997.0	3008.3	3206.3	3262.8	3291.1
17.5°	2278.9	2205.4	2290.2	2363.7	2318.5	2329.8	2363.7	2375.0	2403.3	2380.7	2437.2
20°	1753.0	1741.7	1764.3	1894.3	1990.5	2047.0	2007.4	1950.9	1917.0	1837.8	1837.8
22.5°	1487.2	1509.8	1549.4	1656.8	1781.3	1815.2	1769.9	1639.9	1538.1	1526.8	1532.4
25°	1323.2	1345.8	1408.0	1475.9	1543.8	1600.3	1555.1	1458.9	1402.4	1351.5	1351.5
27.5°	1221.4	1232.7	1266.7	1317.6	1374.1	1419.3	1402.4	1351.5	1289.3	1266.7	1215.8
30°	1142.3	1159.2	1198.8	1210.1	1261.0	1283.6	1255.4	1244.1	1204.5	1176.2	1159.2
32.5°	1102.7	1097.0	1125.3	1136.6	1142.3	1159.2	1125.3	1142.3	1136.6	1091.4	1074.4
35°	831.3	876.5	950.0	1012.2	1029.2	1051.8	1046.1	1023.5	961.3	910.4	848.2
37.5°	746.4	774.7	814.3	865.2	933.0	961.3	950.0	893.5	819.9	786.0	774.7
40°	689.9	706.8	740.8	774.7	842.6	893.5	853.9	803.0	746.4	718.2	701.2
42.5°	639.0	644.6	661.6	695.5	746.4	825.6	757.7	689.9	667.3	650.3	639.0
45°	582.4	582.4	605.1	622.0	678.6	752.1	684.2	622.0	610.7	599.4	593.8
47.5°	537.2	542.9	554.2	576.8	622.0	672.9	627.7	576.8	548.5	542.9	531.5
50°	480.7	486.3	508.9	531.5	588.1	616.4	588.1	531.5	503.3	486.3	486.3
52°	435.4	452.4	475.0	520.2	559.8	605.1	571.1	508.9	475.0	458.0	446.7
52.5°	429.8	441.1	463.7	514.6	559.8	599.4	565.5	503.3	463.7	452.4	441.1
55°	384.5	401.5	441.1	503.3	554.2	599.4	554.2	497.6	441.1	412.8	401.5
57.5°	367.6	378.9	429.8	508.9	548.5	599.4	554.2	497.6	441.1	390.2	378.9
60°	350.6	373.2	429.8	492.0	542.9	605.1	559.8	492.0	429.8	367.6	367.6
62.5°	333.6	350.6	424.1	480.7	520.2	582.4	537.2	480.7	412.8	350.6	344.9
65°	288.4	316.7	373.2	401.5	446.7	503.3	458.0	418.5	361.9	311.0	305.4
67.5°	220.5	231.8	277.1	311.0	339.3	390.2	367.6	316.7	277.1	237.5	237.5
70°	152.7	164.0	197.9	214.9	243.2	271.4	254.5	214.9	186.6	164.0	158.3
72.5°	107.4	113.1	124.4	135.7	147.0	158.3	152.7	124.4	107.4	101.8	96.1
75°	84.8	96.1	101.8	96.1	90.5	84.8	84.8	73.5	62.2	56.5	56.5
77.5°	84.8	90.5	84.8	73.5	62.2	56.5	50.9	45.2	33.9	28.3	33.9
80°	73.5	73.5	73.5	62.2	56.5	50.9	45.2	39.6	33.9	28.3	28.3
82.5°	79.2	79.2	73.5	62.2	62.2	50.9	50.9	45.2	39.6	28.3	28.3
85°	0.0	0.0	0.0	11.3	28.3	50.9	50.9	45.2	39.6	33.9	33.9
87.5°	0.0	0.0	0.0	0.0	5.7	11.3	22.6	28.3	33.9	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6
2.5°	12485.7	12700.6	13107.8	13514.9	13763.7	14057.8	14589.3	14872.1	15239.6	15420.6	15776.8
5°	10059.8	10568.8	10749.7	11213.4	11711.0	12208.7	13000.3	13871.2	14595.0	15092.6	15737.2
7.5°	7339.9	7458.6	8159.8	8470.8	9285.1	10189.9	11270.0	12367.0	13283.1	14097.3	14589.3
10°	5502.1	5937.5	6378.6	6972.3	7628.3	8561.3	9596.1	10806.3	11993.8	12808.1	13430.1
12.5°	4422.0	4767.0	5355.1	5994.1	6802.7	7419.1	8459.5	9658.4	11196.5	11993.8	12813.7
15°	3347.6	3788.7	4456.0	5117.6	5971.4	6621.7	7673.5	9183.4	11162.5	12259.5	12966.4
17.5°	2482.4	2782.1	3381.6	4122.3	4993.2	5909.2	7328.6	9132.5	11541.4	12847.6	13577.1
20°	1900.0	2001.8	2380.7	3042.3	3986.6	5185.4	6768.8	9353.0	12661.0	14278.3	15019.1
22.5°	1538.1	1583.3	1730.4	2188.4	3104.5	4552.1	6503.0	9505.7	13922.1	15991.7	16981.3
25°	1340.2	1328.9	1425.0	1622.9	2425.9	3958.3	6163.7	10082.5	15465.8	18004.8	18892.6
27.5°	1221.4	1221.4	1266.7	1408.0	2013.1	3573.8	5948.8	10495.3	17020.9	19774.7	20255.4
30°	1159.2	1170.5	1300.6	1345.8	1673.8	3115.8	5592.6	10913.7	18508.1	20905.7	21567.3
32.5°	1074.4	1029.2	1000.9	1114.0	1408.0	2703.0	5236.3	11089.0	19712.5	22291.1	22856.6
35°	825.6	803.0	836.9	921.7	1210.1	2352.4	4840.5	11286.9	21098.0	23897.1	24010.2
37.5°	746.4	740.8	763.4	836.9	1017.9	2047.0	4557.7	11236.0	22155.4	25225.9	24920.6
40°	689.9	689.9	706.8	769.0	910.4	1832.1	4263.7	11190.8	23178.9	26718.8	25825.3
42.5°	644.6	644.6	672.9	712.5	865.2	1690.8	4043.2	11128.6	24038.4	27634.9	26356.9
45°	582.4	599.4	644.6	684.2	876.5	1594.6	3879.2	10891.1	24332.5	27623.6	26102.4
47.5°	537.2	559.8	605.1	661.6	791.7	1566.4	3766.1	10681.9	24230.7	26945.0	25305.1
50°	486.3	514.6	576.8	672.9	672.9	1509.8	3647.3	10868.5	24157.2	26419.1	24541.7
52°	452.4	475.0	554.2	656.0	588.1	1391.1	3573.8	11230.4	24456.9	26351.2	24202.4
52.5°	446.7	463.7	537.2	644.6	559.8	1368.5	3522.9	11315.2	24553.0	26181.6	24434.3
55°	395.8	418.5	492.0	503.3	458.0	1125.3	3358.9	11507.5	24078.0	25848.0	24213.7
57.5°	373.2	384.5	435.4	412.8	395.8	848.2	2889.6	11207.8	21386.4	22958.4	22528.6
60°	344.9	356.3	407.1	322.3	333.6	593.8	2171.4	9731.9	17173.5	19130.1	19904.8
62.5°	333.6	328.0	384.5	260.1	282.7	429.8	1532.4	7911.0	13232.2	15748.5	17088.7
65°	294.0	288.4	277.1	220.5	243.2	333.6	916.1	5162.8	9324.7	11914.6	12649.7
67.5°	226.2	237.5	203.6	175.3	203.6	260.1	508.9	2312.8	4891.4	7147.6	7741.4
70°	158.3	169.6	164.0	152.7	181.0	214.9	294.0	791.7	2024.4	3754.8	4139.3
72.5°	96.1	118.8	124.4	130.1	158.3	186.6	209.2	254.5	537.2	1328.9	1651.2
75°	56.5	79.2	96.1	113.1	130.1	158.3	175.3	181.0	186.6	248.8	401.5
77.5°	39.6	56.5	84.8	107.4	130.1	158.3	186.6	197.9	186.6	175.3	186.6
80°	33.9	56.5	79.2	101.8	135.7	164.0	186.6	186.6	181.0	158.3	169.6
82.5°	33.9	56.5	84.8	107.4	130.1	158.3	181.0	186.6	169.6	158.3	164.0
85°	39.6	62.2	90.5	113.1	141.4	130.1	118.8	96.1	90.5	73.5	79.2
87.5°	39.6	56.5	56.5	62.2	67.9	67.9	67.9	62.2	50.9	45.2	45.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P534399

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6	14453.6
2.5°	15793.8	16246.2	16229.2	16240.5	16172.7	15714.6	15494.1	14934.3	15092.6	15024.7
5°	16398.8	16845.6	17230.1	17184.9	16664.6	16042.6	15120.9	14250.0	14012.5	13661.9
7.5°	15793.8	16868.2	17224.4	17173.5	16404.5	15607.2	14136.9	13266.1	12853.3	12621.5
10°	14832.5	16076.5	16517.6	16608.1	16087.8	14877.7	13526.2	12129.5	11909.0	11507.5
12.5°	14284.0	15188.7	15460.1	15703.3	15522.4	14617.6	13062.5	11722.3	11417.0	11151.2
15°	13837.2	14374.4	14487.5	14764.6	14872.1	14385.7	13305.7	12163.4	11411.3	11383.1
17.5°	14250.0	14029.5	13616.7	13701.5	14040.8	14391.4	13933.4	13034.3	12304.8	12214.3
20°	14934.3	13961.6	13028.6	13237.8	13520.6	14595.0	14883.4	14250.0	13831.6	13599.7
22.5°	15720.3	14080.4	12842.0	12943.8	13481.0	15053.0	16421.5	16070.9	15290.5	14956.9
25°	17173.5	14408.4	12989.0	13056.9	13792.0	15692.0	17812.5	18072.7	17609.0	17541.1
27.5°	18592.9	15256.6	13311.3	13158.7	13950.3	16314.0	18655.1	20051.8	19237.5	19079.2
30°	19316.7	15946.5	13792.0	13531.9	14606.3	16692.9	19164.0	21341.1	20628.6	20555.1
32.5°	20425.0	16574.1	14165.2	13831.6	14973.8	17162.2	20114.0	22749.2	22059.3	21691.7
35°	20888.7	17258.4	14985.1	14595.0	16025.6	17818.2	20600.3	24004.5	23789.6	23433.4
37.5°	21782.2	17993.5	15952.1	15929.5	17298.0	18672.1	21476.8	25712.3	25672.7	25056.3
40°	21855.7	18796.5	17478.9	18191.4	19265.8	20159.3	22245.9	26187.3	26831.9	26413.4
42.5°	21968.8	20204.5	20119.7	20707.8	21629.5	21437.2	22274.2	26300.3	27284.3	27035.5
45°	22019.7	21612.5	22805.7	23891.4	24275.9	23111.1	22008.4	26085.5	27521.8	26899.8
47.5°	21612.5	22822.7	24977.1	27075.1	27188.1	24140.2	21895.3	25864.9	27663.1	27250.4
50°	21669.1	23580.4	26854.5	28731.9	28319.1	25050.6	21720.0	25729.2	27589.6	27312.6
52°	21533.4	23597.4	27120.3	28698.0	28409.6	24547.4	21420.3	25209.0	27521.8	27719.7
52.5°	21686.1	23495.6	26843.2	28720.6	28347.4	24796.2	21380.7	25497.4	27561.4	27159.9
55°	21160.2	22285.5	25220.3	26017.6	25961.1	22506.0	20164.9	24541.7	26526.5	26532.2
57.5°	19124.4	19316.7	19780.4	19763.4	19503.3	17693.8	17247.1	22568.2	23648.3	23060.2
60°	16851.2	14142.6	12892.9	12384.0	12095.6	11801.5	15256.6	20645.6	20747.4	20498.6
62.5°	14561.0	9805.4	8142.9	8001.5	8069.4	9143.8	14747.6	19882.2	19271.5	18734.3
65°	11750.6	7147.6	5914.9	5728.3	6389.9	7549.1	11937.2	15245.3	14306.6	13859.8
67.5°	7379.5	5213.7	3997.9	3647.3	4444.7	5196.7	7843.2	9579.2	8527.4	7911.0
70°	4376.8	2912.2	1809.5	1622.9	1826.5	2770.8	4393.8	4778.3	3952.7	3636.0
72.5°	1724.7	1068.8	503.3	429.8	446.7	972.6	1617.3	1577.7	1193.2	1063.1
75°	463.7	322.3	175.3	141.4	118.8	181.0	260.1	169.6	62.2	79.2
77.5°	214.9	192.3	152.7	118.8	90.5	67.9	33.9	11.3	11.3	5.7
80°	186.6	164.0	141.4	118.8	90.5	56.5	28.3	5.7	5.7	5.7
82.5°	175.3	152.7	130.1	107.4	84.8	56.5	28.3	5.7	0.0	0.0
85°	73.5	96.1	107.4	101.8	90.5	56.5	28.3	5.7	0.0	0.0
87.5°	39.6	33.9	28.3	22.6	17.0	11.3	11.3	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

(END OF REPORT)