

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: P533463

Luminaire Tested: **GALN-SA8D-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533463  
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-SA8D-827-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 25387 lumens  
Efficiency: N/A  
Efficacy: 51.5 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

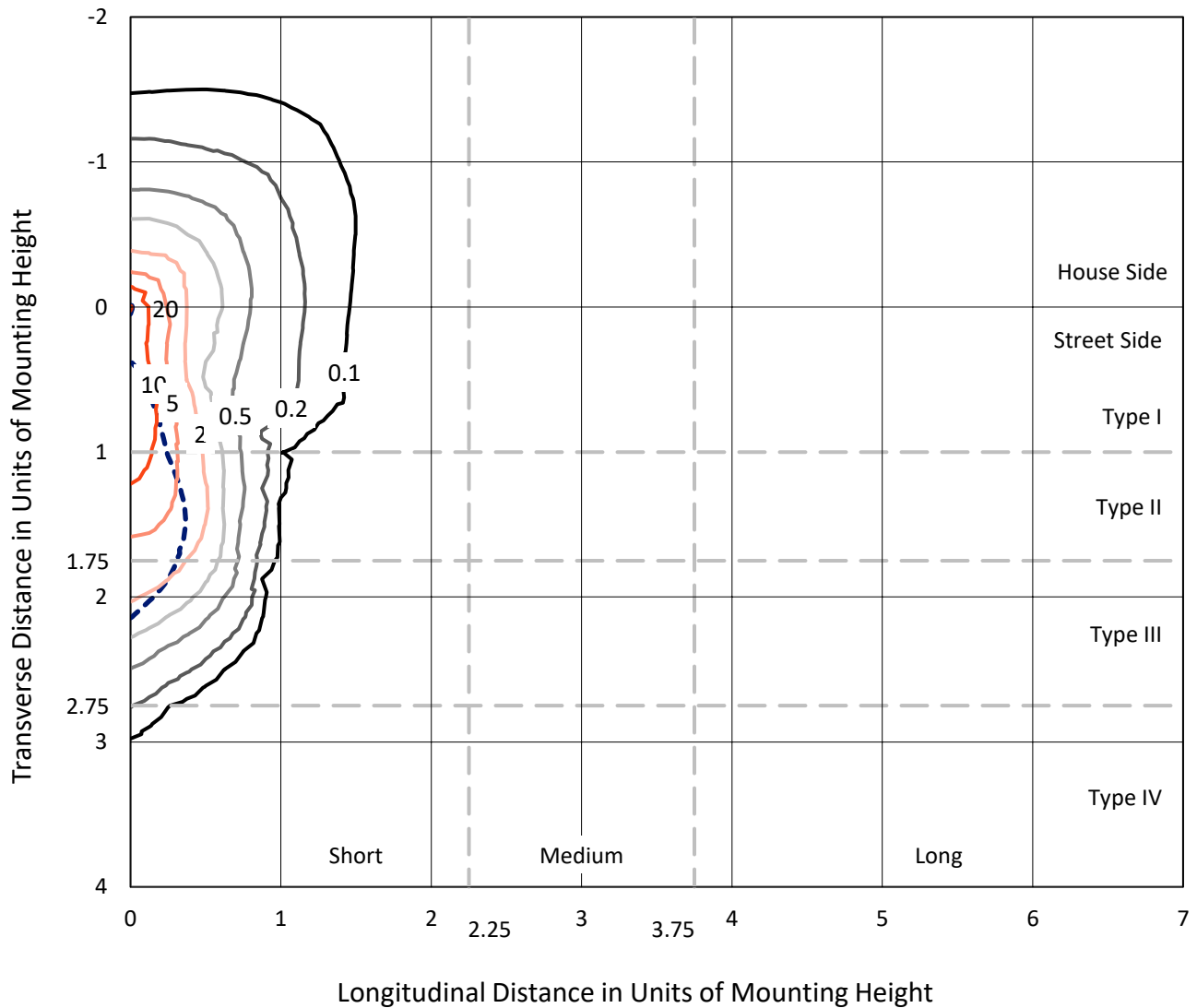
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

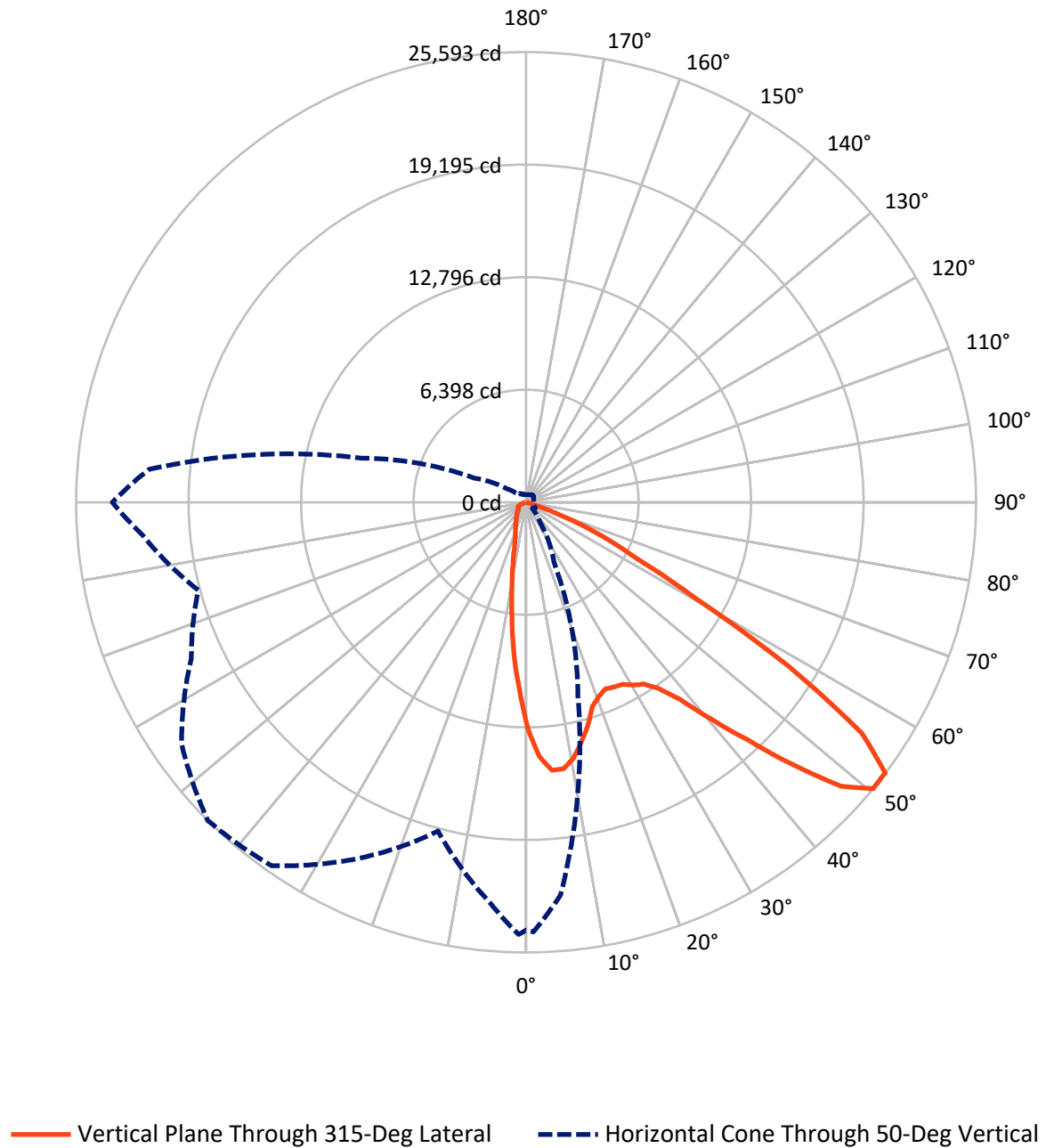
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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	5085.0	0.0	5085.0
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	20302.0	0.0	20302.0
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	25387.0	0.0	25387.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	938.4	3.7
10°-20°	1865.0	7.3
20°-30°	2801.9	11.0
30°-40°	4205.5	16.6
40°-50°	5910.6	23.3
50°-60°	6375.6	25.1
60°-70°	2960.2	11.7
70°-80°	278.5	1.1
80°-90°	51.3	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°	25387.0	100.0
0°-180°	25387.0	100.0

**Coefficient of Utilization**



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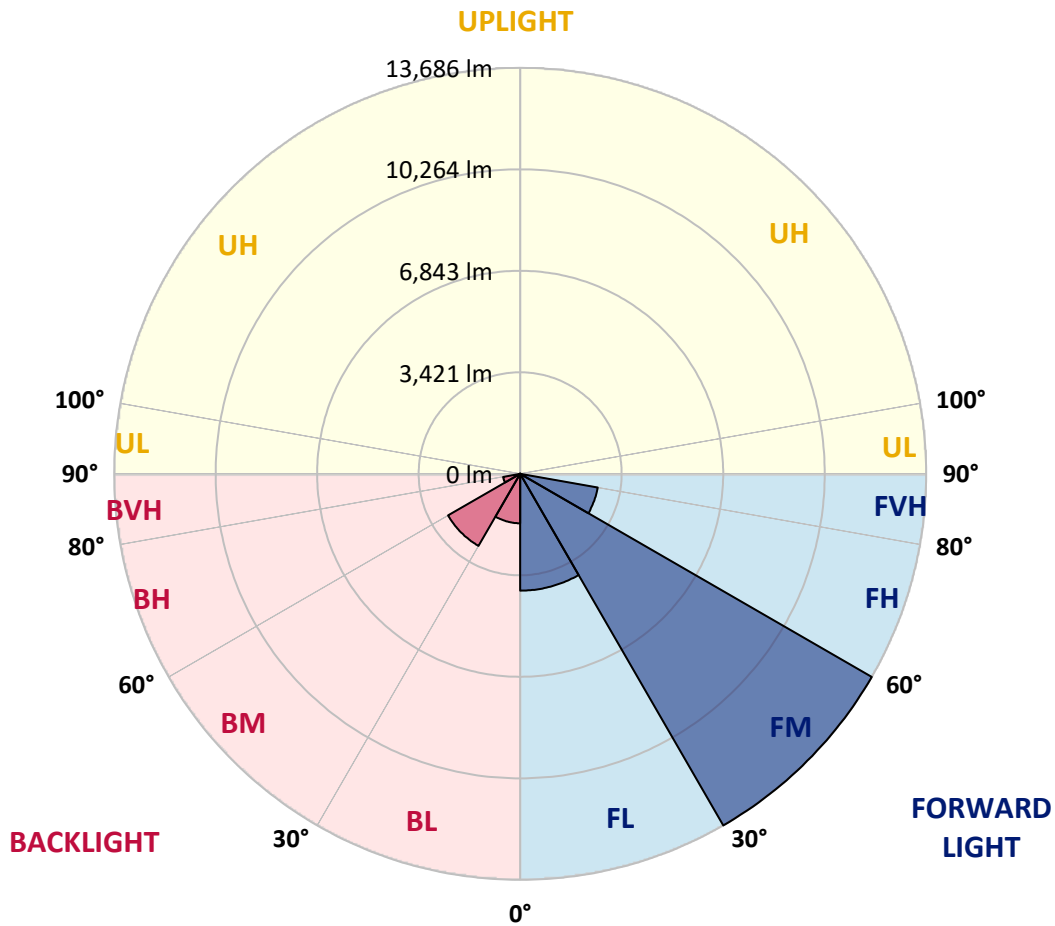
CATALOG NUMBER: GALN-SA8D-827-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3938.6	15.5			
FM (30°-60°)	13685.5	53.9			
FH (60°-80°)	2654.8	10.5			G2/5000
FVH (80°-90°)	23.1	0.1			G1/100
BL (0°-30°)	1666.7	6.6	B3/2500		
BM (30°-60°)	2806.2	11.1	B3/5000		
BH (60°-80°)	583.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	28.2	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°	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4
2.5°	13383.1	13176.6	12914.7	12698.1	12375.8	11726.0	11549.7	11338.1	11161.9	10925.1	10592.7
5°	12169.2	12103.8	11982.9	11166.9	10577.6	9791.8	9147.1	8875.1	8517.5	8225.3	8013.8
7.5°	11242.4	10980.5	10597.7	9776.7	8834.8	7993.6	7278.4	6860.3	6386.8	6225.7	5938.5
10°	10250.2	10310.6	9746.5	8593.0	7454.7	6774.7	6331.4	5928.5	5500.3	5218.3	4810.3
12.5°	9932.8	9736.4	9303.2	7877.8	6905.6	6271.0	5732.0	5233.4	4780.1	4326.7	3933.8
15°	10139.4	9837.1	9232.7	7726.7	6482.5	5691.7	5016.8	4341.8	3923.8	3344.5	2936.5
17.5°	10879.8	10638.0	9827.1	7887.8	6265.9	5137.7	4135.3	3440.2	2800.5	2276.7	2070.2
20°	12113.8	11771.3	10753.9	8094.4	5943.6	4467.8	3354.6	2498.3	1893.9	1672.3	1556.4
22.5°	13322.7	13136.3	11851.9	8492.3	5656.5	3873.4	2518.5	1682.3	1415.4	1375.1	1299.5
25°	15624.6	15065.5	13529.2	9212.6	5434.9	3314.3	1898.9	1354.9	1198.8	1168.6	1178.6
27.5°	16994.6	16526.2	15080.6	9691.1	5188.0	2886.2	1606.8	1244.1	1138.3	1072.9	1047.7
30°	18309.3	17765.3	15851.2	9973.1	4659.2	2432.8	1425.5	1193.8	1168.6	1072.9	1042.6
32.5°	19321.7	18787.8	16964.4	10396.2	4442.6	2140.7	1173.6	931.8	866.4	856.3	946.9
35°	20873.1	20303.9	17916.4	10627.9	4276.4	1989.6	1017.5	831.1	755.5	725.3	730.4
37.5°	22318.7	21930.8	18797.8	10718.6	4100.1	1944.3	911.7	745.5	680.0	659.8	654.8
40°	23527.5	22661.2	19634.0	10814.3	4024.5	1858.6	846.2	680.0	634.7	604.4	604.4
42.5°	24081.6	23200.1	20570.8	10758.9	4004.4	1722.6	846.2	624.6	589.3	559.1	554.1
45°	23960.7	23603.1	20988.9	10733.7	4004.4	1586.6	770.7	609.5	559.1	518.8	508.7
47.5°	24273.0	23804.6	21512.8	10839.5	3923.8	1490.9	649.8	639.7	528.9	478.5	468.4
50°	24328.4	24419.1	22424.4	11388.5	3747.5	1370.0	508.7	629.6	508.7	433.2	423.1
52°	24691.1	24126.9	22701.5	11680.7	3561.1	1279.4	428.1	539.0	488.6	403.0	392.9
52.5°	24192.4	24560.1	22767.0	11786.4	3581.3	1218.9	413.0	528.9	478.5	403.0	377.8
55°	23633.3	23985.9	22500.0	12013.1	3284.1	957.0	322.4	382.8	433.2	352.6	337.5
57.5°	20540.6	20898.2	19553.4	11000.7	2674.6	674.9	267.0	287.1	382.8	327.4	312.3
60°	18258.9	18002.0	16410.3	9177.3	1898.9	377.8	211.6	221.6	418.1	302.2	297.2
62.5°	16687.4	16138.3	13715.6	7087.0	1158.5	251.8	166.2	171.3	322.4	282.1	282.1
65°	12345.5	11731.0	9111.8	4286.4	569.2	176.3	125.9	136.0	201.5	241.8	241.8
67.5°	7046.7	6809.9	4402.3	1934.2	236.7	110.8	95.7	105.8	156.1	196.4	186.4
70°	3238.8	2906.3	1692.4	408.0	110.8	75.6	75.6	85.6	125.9	146.1	136.0
72.5°	946.9	896.6	413.0	65.5	45.3	45.3	50.4	65.5	95.7	110.8	100.7
75°	70.5	45.3	30.2	20.1	20.1	30.2	40.3	65.5	95.7	105.8	85.6
77.5°	5.0	10.1	5.0	5.0	15.1	30.2	45.3	80.6	125.9	131.0	95.7
80°	5.0	5.0	0.0	5.0	15.1	30.2	50.4	90.7	141.0	151.1	80.6
82.5°	0.0	0.0	0.0	5.0	20.1	40.3	60.4	95.7	131.0	161.2	85.6
85°	0.0	0.0	0.0	5.0	30.2	55.4	70.5	25.2	15.1	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°	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4
2.5°	10829.4	10698.5	10648.1	10693.4	10678.3	10663.2	10940.2	10879.8	10869.7	10960.4	10940.2
5°	8129.6	7897.9	8532.6	8275.7	8542.6	8703.8	8734.0	8749.2	8935.5	8739.1	8996.0
7.5°	5792.5	5852.9	5847.9	6019.1	6326.4	6598.4	6759.6	6633.6	6623.6	6598.4	6487.6
10°	4628.9	4523.2	4503.0	4462.7	4558.4	4790.1	4986.6	4830.4	4719.6	4870.7	4825.4
12.5°	3782.7	3636.7	3556.1	3394.9	3399.9	3556.1	3556.1	3556.1	3666.9	3752.5	3818.0
15°	2901.3	2780.4	2780.4	2619.2	2583.9	2589.0	2669.6	2679.7	2855.9	2906.3	2931.5
17.5°	2029.9	1964.4	2040.0	2105.4	2065.1	2075.2	2105.4	2115.5	2140.7	2120.6	2170.9
20°	1561.5	1551.4	1571.5	1687.4	1773.0	1823.4	1788.1	1737.7	1707.5	1637.0	1637.0
22.5°	1324.7	1344.9	1380.1	1475.8	1586.6	1616.9	1576.6	1460.7	1370.0	1360.0	1365.0
25°	1178.6	1198.8	1254.2	1314.6	1375.1	1425.5	1385.2	1299.5	1249.2	1203.8	1203.8
27.5°	1088.0	1098.1	1128.3	1173.6	1224.0	1264.3	1249.2	1203.8	1148.4	1128.3	1082.9
30°	1017.5	1032.6	1067.8	1077.9	1123.2	1143.4	1118.2	1108.1	1072.9	1047.7	1032.6
32.5°	982.2	977.2	1002.4	1012.4	1017.5	1032.6	1002.4	1017.5	1012.4	972.1	957.0
35°	740.4	780.7	846.2	901.6	916.7	936.9	931.8	911.7	856.3	810.9	755.5
37.5°	664.9	690.1	725.3	770.7	831.1	856.3	846.2	795.8	730.4	700.1	690.1
40°	614.5	629.6	659.8	690.1	750.5	795.8	760.6	715.2	664.9	639.7	624.6
42.5°	569.2	574.2	589.3	619.5	664.9	735.4	674.9	614.5	594.4	579.2	569.2
45°	518.8	518.8	539.0	554.1	604.4	669.9	609.5	554.1	544.0	533.9	528.9
47.5°	478.5	483.5	493.6	513.8	554.1	599.4	559.1	513.8	488.6	483.5	473.5
50°	428.1	433.2	453.3	473.5	523.8	549.0	523.8	473.5	448.3	433.2	433.2
52°	387.8	403.0	423.1	463.4	498.7	539.0	508.7	453.3	423.1	408.0	397.9
52.5°	382.8	392.9	413.0	458.4	498.7	533.9	503.7	448.3	413.0	403.0	392.9
55°	342.5	357.6	392.9	448.3	493.6	533.9	493.6	443.3	392.9	367.7	357.6
57.5°	327.4	337.5	382.8	453.3	488.6	533.9	493.6	443.3	392.9	347.5	337.5
60°	312.3	332.4	382.8	438.2	483.5	539.0	498.7	438.2	382.8	327.4	327.4
62.5°	297.2	312.3	377.8	428.1	463.4	518.8	478.5	428.1	367.7	312.3	307.3
65°	256.9	282.1	332.4	357.6	397.9	448.3	408.0	372.7	322.4	277.0	272.0
67.5°	196.4	206.5	246.8	277.0	302.2	347.5	327.4	282.1	246.8	211.6	211.6
70°	136.0	146.1	176.3	191.4	216.6	241.8	226.7	191.4	166.2	146.1	141.0
72.5°	95.7	100.7	110.8	120.9	131.0	141.0	136.0	110.8	95.7	90.7	85.6
75°	75.6	85.6	90.7	85.6	80.6	75.6	75.6	65.5	55.4	50.4	50.4
77.5°	75.6	80.6	75.6	65.5	55.4	50.4	45.3	40.3	30.2	25.2	30.2
80°	65.5	65.5	65.5	55.4	50.4	45.3	40.3	35.3	30.2	25.2	25.2
82.5°	70.5	70.5	65.5	55.4	55.4	45.3	45.3	40.3	35.3	25.2	25.2
85°	0.0	0.0	0.0	10.1	25.2	45.3	45.3	40.3	35.3	30.2	30.2
87.5°	0.0	0.0	0.0	0.0	5.0	10.1	20.1	25.2	30.2	30.2	30.2
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4
2.5°	11121.6	11313.0	11675.6	12038.3	12259.9	12521.8	12995.3	13247.1	13574.5	13735.7	14053.1
5°	8960.7	9414.0	9575.2	9988.2	10431.5	10874.7	11579.9	12355.6	13000.3	13443.6	14017.8
7.5°	6537.9	6643.7	7268.3	7545.3	8270.6	9076.6	10038.6	11015.8	11831.8	12557.1	12995.3
10°	4900.9	5288.8	5681.7	6210.5	6794.8	7625.9	8547.7	9625.6	10683.3	11408.7	11962.7
12.5°	3938.9	4246.1	4770.0	5339.2	6059.4	6608.5	7535.3	8603.1	9973.1	10683.3	11413.7
15°	2981.9	3374.7	3969.1	4558.4	5319.0	5898.3	6835.1	8180.0	9942.9	10920.1	11549.7
17.5°	2211.2	2478.2	3012.1	3671.9	4447.6	5263.6	6527.9	8134.7	10280.4	11443.9	12093.7
20°	1692.4	1783.1	2120.6	2709.9	3551.0	4618.9	6029.2	8331.1	11277.7	12718.3	13378.1
22.5°	1370.0	1410.3	1541.3	1949.3	2765.3	4054.7	5792.5	8467.1	12400.9	14244.5	15125.9
25°	1193.8	1183.7	1269.3	1445.6	2160.8	3525.9	5490.3	8980.9	13776.0	16037.6	16828.4
27.5°	1088.0	1088.0	1128.3	1254.2	1793.1	3183.3	5298.9	9348.6	15161.2	17614.2	18042.3
30°	1032.6	1042.6	1158.5	1198.8	1490.9	2775.4	4981.5	9721.3	16485.9	18621.6	19210.9
32.5°	957.0	916.7	891.5	992.3	1254.2	2407.7	4664.2	9877.4	17558.8	19855.6	20359.3
35°	735.4	715.2	745.5	821.0	1077.9	2095.4	4311.6	10053.7	18792.8	21286.1	21386.8
37.5°	664.9	659.8	680.0	745.5	906.6	1823.4	4059.8	10008.4	19734.7	22469.8	22197.8
40°	614.5	614.5	629.6	685.0	810.9	1632.0	3797.8	9968.1	20646.4	23799.5	23003.7
42.5°	574.2	574.2	599.4	634.7	770.7	1506.0	3601.4	9912.7	21412.0	24615.5	23477.2
45°	518.8	533.9	574.2	609.5	780.7	1420.4	3455.3	9701.1	21673.9	24605.4	23250.5
47.5°	478.5	498.7	539.0	589.3	705.2	1395.2	3354.6	9514.8	21583.3	24001.0	22540.3
50°	433.2	458.4	513.8	599.4	599.4	1344.9	3248.8	9681.0	21517.8	23532.6	21860.3
52°	403.0	423.1	493.6	584.3	523.8	1239.1	3183.3	10003.4	21784.7	23472.1	21558.1
52.5°	397.9	413.0	478.5	574.2	498.7	1218.9	3138.0	10078.9	21870.4	23321.0	21764.6
55°	352.6	372.7	438.2	448.3	408.0	1002.4	2991.9	10250.2	21447.3	23023.8	21568.2
57.5°	332.4	342.5	387.8	367.7	352.6	755.5	2573.9	9983.2	19049.7	20450.0	20067.2
60°	307.3	317.3	362.7	287.1	297.2	528.9	1934.2	8668.6	15297.2	17040.0	17730.0
62.5°	297.2	292.1	342.5	231.7	251.8	382.8	1365.0	7046.7	11786.4	14027.9	15221.6
65°	261.9	256.9	246.8	196.4	216.6	297.2	816.0	4598.7	8305.9	10612.8	11267.6
67.5°	201.5	211.6	181.3	156.1	181.3	231.7	453.3	2060.1	4356.9	6366.7	6895.6
70°	141.0	151.1	146.1	136.0	161.2	191.4	261.9	705.2	1803.2	3344.5	3687.0
72.5°	85.6	105.8	110.8	115.8	141.0	166.2	186.4	226.7	478.5	1183.7	1470.8
75°	50.4	70.5	85.6	100.7	115.8	141.0	156.1	161.2	166.2	221.6	357.6
77.5°	35.3	50.4	75.6	95.7	115.8	141.0	166.2	176.3	166.2	156.1	166.2
80°	30.2	50.4	70.5	90.7	120.9	146.1	166.2	166.2	161.2	141.0	151.1
82.5°	30.2	50.4	75.6	95.7	115.8	141.0	161.2	166.2	151.1	141.0	146.1
85°	35.3	55.4	80.6	100.7	125.9	115.8	105.8	85.6	80.6	65.5	70.5
87.5°	35.3	50.4	50.4	55.4	60.4	60.4	60.4	55.4	45.3	40.3	40.3
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: P533463

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4	12874.4
2.5°	14068.2	14471.1	14456.0	14466.1	14405.6	13997.6	13801.2	13302.5	13443.6	13383.1
5°	14607.1	15005.0	15347.5	15307.2	14843.9	14289.8	13468.8	12693.1	12481.5	12169.2
7.5°	14068.2	15025.2	15342.5	15297.2	14612.2	13901.9	12592.3	11816.7	11449.0	11242.4
10°	13211.9	14320.0	14712.9	14793.5	14330.1	13252.2	12048.4	10804.2	10607.8	10250.2
12.5°	12723.3	13529.2	13771.0	13987.6	13826.4	13020.5	11635.3	10441.6	10169.6	9932.8
15°	12325.4	12803.9	12904.6	13151.4	13247.1	12814.0	11851.9	10834.4	10164.5	10139.4
17.5°	12693.1	12496.6	12128.9	12204.5	12506.7	12819.0	12411.0	11610.1	10960.4	10879.8
20°	13302.5	12436.2	11605.1	11791.5	12043.3	13000.3	13257.2	12693.1	12320.3	12113.8
22.5°	14002.7	12542.0	11438.9	11529.5	12008.1	13408.3	14627.3	14315.0	13619.9	13322.7
25°	15297.2	12834.1	11569.8	11630.3	12285.1	13977.5	15866.3	16098.0	15685.0	15624.6
27.5°	16561.4	13589.7	11856.9	11721.0	12426.1	14531.6	16616.9	17861.0	17135.7	16994.6
30°	17206.2	14204.2	12285.1	12053.4	13010.4	14869.0	17070.2	19009.4	18374.7	18309.3
32.5°	18193.4	14763.3	12617.5	12320.3	13337.8	15287.1	17916.4	20263.6	19649.1	19321.7
35°	18606.4	15372.7	13347.9	13000.3	14274.7	15871.4	18349.6	21381.8	21190.4	20873.1
37.5°	19402.3	16027.5	14209.2	14189.0	15408.0	16632.0	19130.3	22902.9	22867.7	22318.7
40°	19467.8	16742.8	15569.2	16203.8	17160.8	17956.7	19815.3	23326.1	23900.3	23527.5
42.5°	19568.5	17997.0	17921.4	18445.3	19266.3	19095.0	19840.5	23426.8	24303.2	24081.6
45°	19613.8	19251.2	20314.0	21281.1	21623.6	20586.0	19603.8	23235.4	24514.8	23960.7
47.5°	19251.2	20329.1	22248.1	24116.9	24217.6	21502.7	19503.0	23038.9	24640.7	24273.0
50°	19301.5	21004.0	23920.4	25592.7	25225.0	22313.6	19346.9	22918.1	24575.2	24328.4
52°	19180.7	21019.1	24157.1	25562.5	25305.6	21865.3	19079.9	22454.7	24514.8	24691.1
52.5°	19316.7	20928.5	23910.3	25582.6	25250.2	22087.0	19044.7	22711.5	24550.0	24192.4
55°	18848.2	19850.6	22464.7	23174.9	23124.6	20047.0	17961.7	21860.3	23628.3	23633.3
57.5°	17034.9	17206.2	17619.2	17604.1	17372.4	15760.6	15362.7	20102.4	21064.5	20540.6
60°	15010.1	12597.4	11484.2	11030.9	10774.0	10512.1	13589.7	18389.9	18480.5	18258.9
62.5°	12970.1	8734.0	7253.2	7127.3	7187.7	8144.7	13136.3	17709.9	17165.9	16687.4
65°	10466.8	6366.7	5268.6	5102.4	5691.7	6724.3	10633.0	13579.6	12743.4	12345.5
67.5°	6573.2	4644.1	3561.1	3248.8	3959.0	4628.9	6986.2	8532.6	7595.7	7046.7
70°	3898.6	2594.0	1611.8	1445.6	1626.9	2468.1	3913.7	4256.2	3520.8	3238.8
72.5°	1536.3	952.0	448.3	382.8	397.9	866.4	1440.6	1405.3	1062.8	946.9
75°	413.0	287.1	156.1	125.9	105.8	161.2	231.7	151.1	55.4	70.5
77.5°	191.4	171.3	136.0	105.8	80.6	60.4	30.2	10.1	10.1	5.0
80°	166.2	146.1	125.9	105.8	80.6	50.4	25.2	5.0	5.0	5.0
82.5°	156.1	136.0	115.8	95.7	75.6	50.4	25.2	5.0	0.0	0.0
85°	65.5	85.6	95.7	90.7	80.6	50.4	25.2	5.0	0.0	0.0
87.5°	35.3	30.2	25.2	20.1	15.1	10.1	10.1	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)