

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: P532423

Luminaire Tested: **GALN-SA7D-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532423  
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-SA7D-735-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 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: 27749 lumens  
Efficiency: N/A  
Efficacy: 64.1 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

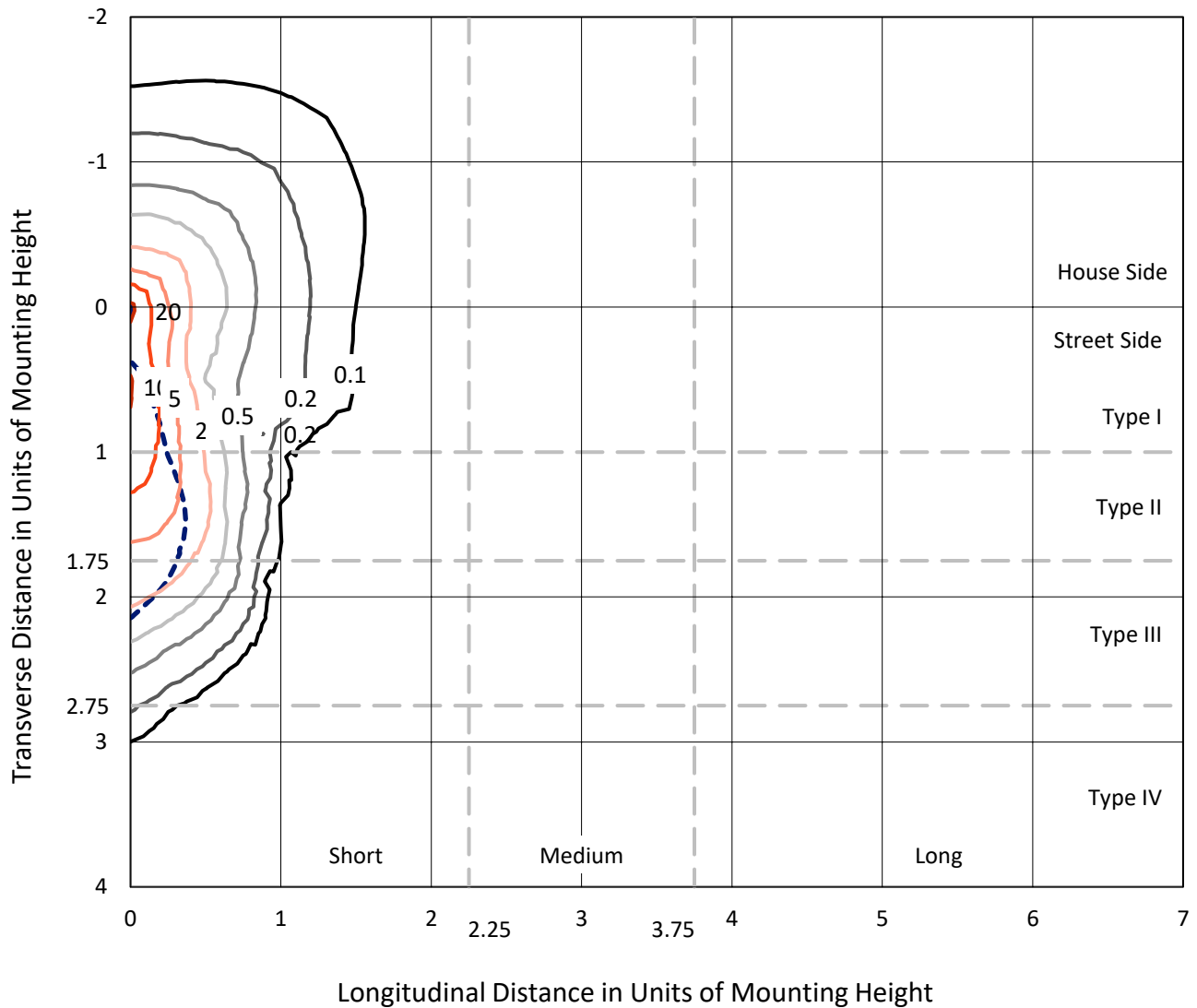
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

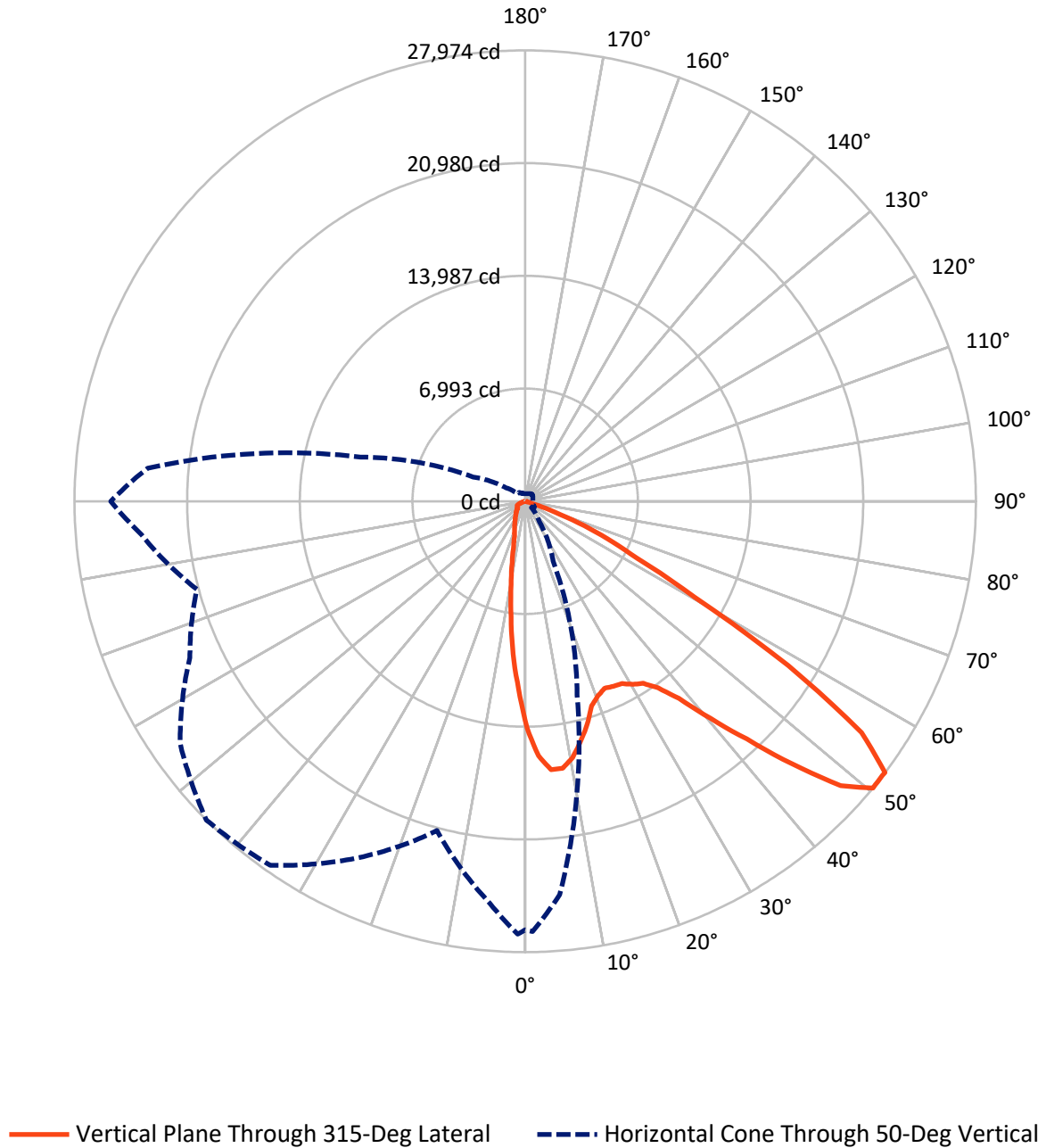
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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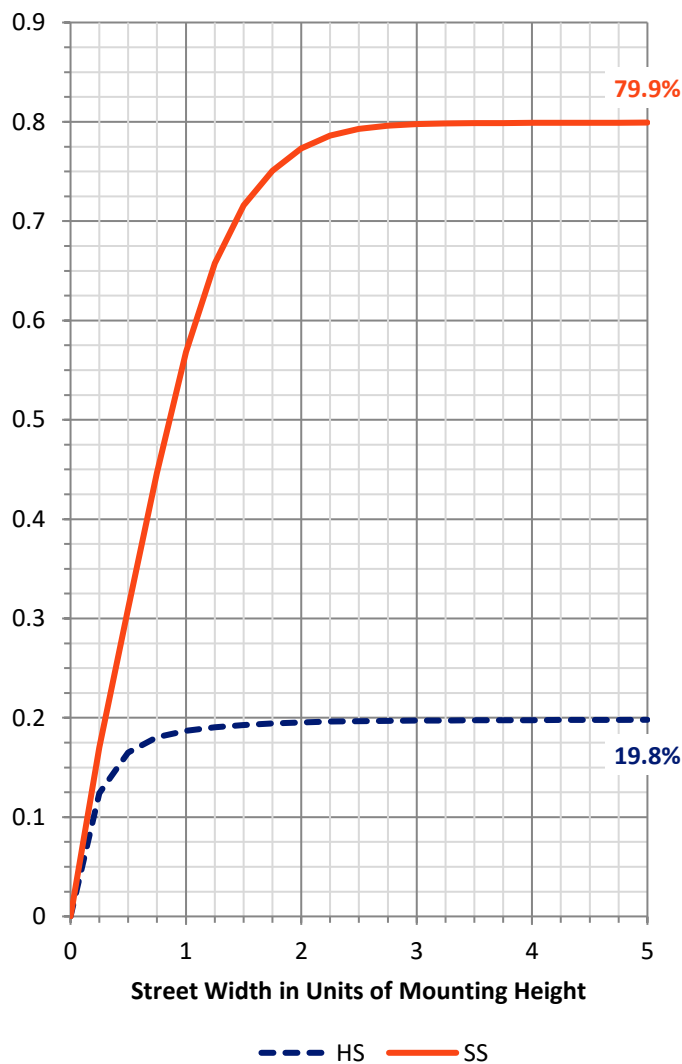
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5558.1	0.0	5558.1
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	22190.9	0.0	22190.9
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	27749.0	0.0	27749.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1025.7	3.7
10°-20°	2038.6	7.3
20°-30°	3062.5	11.0
30°-40°	4596.8	16.6
40°-50°	6460.5	23.3
50°-60°	6968.8	25.1
60°-70°	3235.6	11.7
70°-80°	304.4	1.1
80°-90°	56.1	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°	27749.0	100.0
0°-180°	27749.0	100.0

**Coefficient of Utilization**

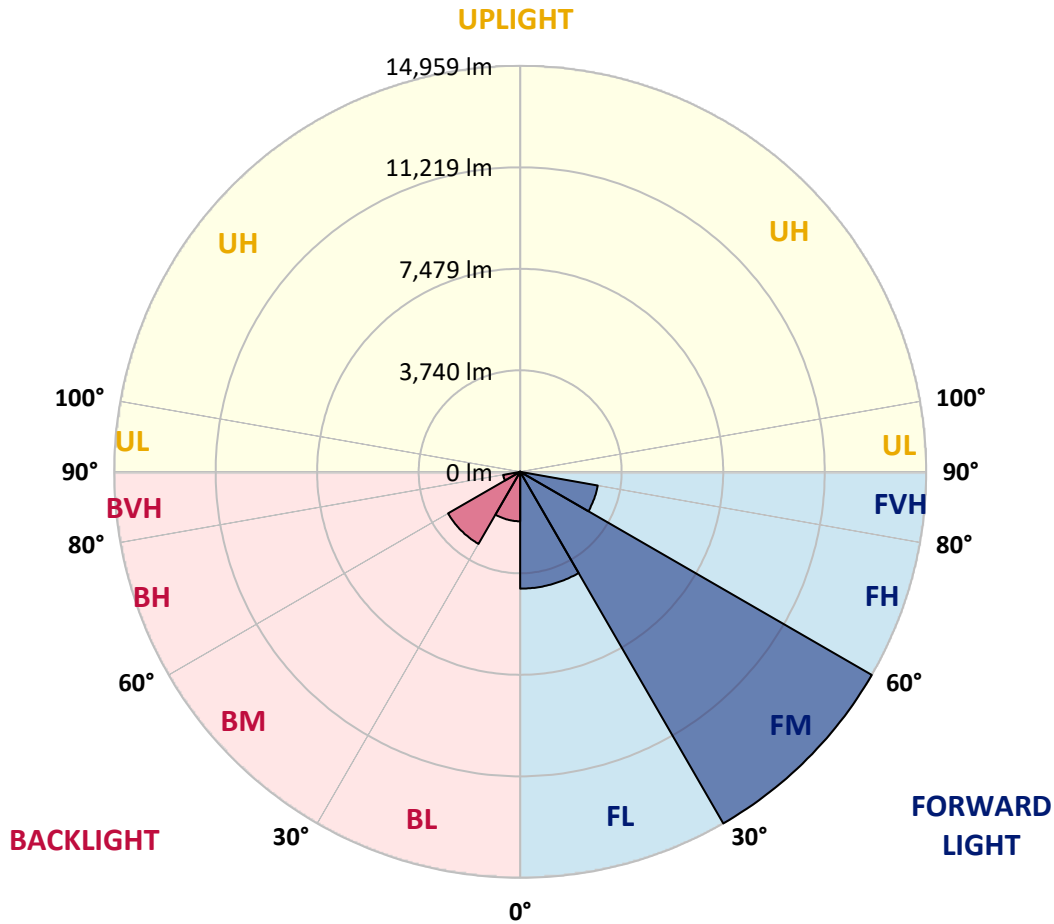


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4305.0	15.5			
FM (30°-60°)	14958.8	53.9			
FH (60°-80°)	2901.8	10.5			G2/5000
FVH (80°-90°)	25.3	0.1			G1/100
BL (0°-30°)	1821.8	6.6	B3/2500		
BM (30°-60°)	3067.3	11.1	B3/5000		
BH (60°-80°)	638.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	30.8	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°	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2
2.5°	14628.3	14402.6	14116.3	13879.5	13527.2	12817.0	12624.3	12393.0	12200.3	11941.6	11578.2
5°	13301.5	13229.9	13097.8	12205.9	11561.7	10702.8	9998.1	9700.8	9309.9	8990.6	8759.4
7.5°	12288.4	12002.1	11583.7	10686.3	9656.8	8737.3	7955.6	7498.6	6981.1	6804.9	6491.1
10°	11203.8	11269.9	10653.3	9392.5	8148.2	7405.0	6920.5	6480.1	6012.1	5703.8	5257.8
12.5°	10857.0	10642.3	10168.8	8610.7	7548.1	6854.4	6265.3	5720.3	5224.8	4729.3	4299.9
15°	11082.7	10752.4	10091.7	8445.5	7085.7	6221.3	5483.5	4745.8	4288.8	3655.7	3209.7
17.5°	11892.0	11627.8	10741.4	8621.7	6848.9	5615.7	4520.1	3760.3	3061.1	2488.5	2262.8
20°	13240.9	12866.5	11754.4	8847.5	6496.6	4883.4	3666.7	2730.8	2070.1	1827.8	1701.2
22.5°	14562.2	14358.5	12954.6	9282.4	6182.8	4233.8	2752.8	1838.9	1547.1	1503.0	1420.4
25°	17078.3	16467.2	14788.0	10069.7	5940.5	3622.7	2075.6	1481.0	1310.3	1277.3	1288.3
27.5°	18575.8	18063.8	16483.7	10592.7	5670.7	3154.7	1756.3	1359.9	1244.3	1172.7	1145.2
30°	20012.8	19418.2	17326.0	10901.0	5092.7	2659.2	1558.1	1304.8	1277.3	1172.7	1139.7
32.5°	21119.4	20535.8	18542.8	11363.5	4855.9	2339.9	1282.8	1018.5	947.0	935.9	1035.0
35°	22815.1	22193.0	19583.3	11616.8	4674.2	2174.7	1112.1	908.4	825.8	792.8	798.3
37.5°	24395.2	23971.3	20546.8	11715.9	4481.5	2125.2	996.5	814.8	743.3	721.2	715.7
40°	25716.5	24769.6	21460.7	11820.5	4399.0	2031.6	924.9	743.3	693.7	660.7	660.7
42.5°	26322.1	25358.7	22484.8	11759.9	4376.9	1882.9	924.9	682.7	644.2	611.1	605.6
45°	26190.0	25799.1	22941.7	11732.4	4376.9	1734.3	842.4	666.2	611.1	567.1	556.1
47.5°	26531.3	26019.3	23514.3	11848.0	4288.8	1629.6	710.2	699.2	578.1	523.0	512.0
50°	26591.9	26691.0	24510.8	12448.1	4096.1	1497.5	556.1	688.2	556.1	473.5	462.5
52°	26988.3	26371.7	24813.6	12767.4	3892.4	1398.4	468.0	589.1	534.0	440.4	429.4
52.5°	26443.3	26845.2	24885.2	12883.0	3914.5	1332.3	451.5	578.1	523.0	440.4	412.9
55°	25832.1	26217.5	24593.4	13130.8	3589.6	1046.1	352.4	418.4	473.5	385.4	368.9
57.5°	22451.7	22842.6	21372.6	12024.2	2923.5	737.7	291.8	313.8	418.4	357.9	341.3
60°	19957.7	19676.9	17937.2	10031.2	2075.6	412.9	231.2	242.2	457.0	330.3	324.8
62.5°	18240.0	17639.9	14991.7	7746.3	1266.3	275.3	181.7	187.2	352.4	308.3	308.3
65°	13494.2	12822.5	9959.6	4685.2	622.1	192.7	137.6	148.7	220.2	264.3	264.3
67.5°	7702.3	7443.5	4811.9	2114.1	258.8	121.1	104.6	115.6	170.7	214.7	203.7
70°	3540.1	3176.7	1849.9	446.0	121.1	82.6	82.6	93.6	137.6	159.7	148.7
72.5°	1035.0	980.0	451.5	71.6	49.6	49.6	55.1	71.6	104.6	121.1	110.1
75°	77.1	49.6	33.0	22.0	22.0	33.0	44.0	71.6	104.6	115.6	93.6
77.5°	5.5	11.0	5.5	5.5	16.5	33.0	49.6	88.1	137.6	143.1	104.6
80°	5.5	5.5	0.0	5.5	16.5	33.0	55.1	99.1	154.2	165.2	88.1
82.5°	0.0	0.0	0.0	5.5	22.0	44.0	66.1	104.6	143.1	176.2	93.6
85°	0.0	0.0	0.0	5.5	33.0	60.6	77.1	27.5	16.5	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°	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2
2.5°	11837.0	11693.8	11638.8	11688.3	11671.8	11655.3	11958.1	11892.0	11881.0	11980.1	11958.1
5°	8886.0	8632.7	9326.4	9045.7	9337.4	9513.6	9546.7	9563.2	9766.9	9552.2	9833.0
7.5°	6331.4	6397.5	6392.0	6579.2	6915.0	7212.3	7388.5	7250.8	7239.8	7212.3	7091.2
10°	5059.6	4944.0	4922.0	4877.9	4982.5	5235.8	5450.5	5279.8	5158.7	5323.9	5274.3
12.5°	4134.7	3975.0	3886.9	3710.8	3716.3	3886.9	3886.9	3886.9	4008.1	4101.7	4173.2
15°	3171.2	3039.1	3039.1	2862.9	2824.4	2829.9	2918.0	2929.0	3121.7	3176.7	3204.2
17.5°	2218.7	2147.2	2229.8	2301.3	2257.3	2268.3	2301.3	2312.3	2339.9	2317.8	2372.9
20°	1706.7	1695.7	1717.7	1844.4	1938.0	1993.0	1954.5	1899.4	1866.4	1789.3	1789.3
22.5°	1448.0	1470.0	1508.5	1613.1	1734.3	1767.3	1723.2	1596.6	1497.5	1486.5	1492.0
25°	1288.3	1310.3	1370.9	1437.0	1503.0	1558.1	1514.0	1420.4	1365.4	1315.8	1315.8
27.5°	1189.2	1200.2	1233.2	1282.8	1337.9	1381.9	1365.4	1315.8	1255.3	1233.2	1183.7
30°	1112.1	1128.6	1167.2	1178.2	1227.7	1249.8	1222.2	1211.2	1172.7	1145.2	1128.6
32.5°	1073.6	1068.1	1095.6	1106.6	1112.1	1128.6	1095.6	1112.1	1106.6	1062.6	1046.1
35°	809.3	853.4	924.9	985.5	1002.0	1024.0	1018.5	996.5	935.9	886.4	825.8
37.5°	726.7	754.3	792.8	842.4	908.4	935.9	924.9	869.9	798.3	765.3	754.3
40°	671.7	688.2	721.2	754.3	820.3	869.9	831.3	781.8	726.7	699.2	682.7
42.5°	622.1	627.6	644.2	677.2	726.7	803.8	737.7	671.7	649.7	633.1	622.1
45°	567.1	567.1	589.1	605.6	660.7	732.2	666.2	605.6	594.6	583.6	578.1
47.5°	523.0	528.5	539.5	561.6	605.6	655.2	611.1	561.6	534.0	528.5	517.5
50°	468.0	473.5	495.5	517.5	572.6	600.1	572.6	517.5	490.0	473.5	473.5
52°	423.9	440.4	462.5	506.5	545.1	589.1	556.1	495.5	462.5	446.0	434.9
52.5°	418.4	429.4	451.5	501.0	545.1	583.6	550.6	490.0	451.5	440.4	429.4
55°	374.4	390.9	429.4	490.0	539.5	583.6	539.5	484.5	429.4	401.9	390.9
57.5°	357.9	368.9	418.4	495.5	534.0	583.6	539.5	484.5	429.4	379.9	368.9
60°	341.3	363.4	418.4	479.0	528.5	589.1	545.1	479.0	418.4	357.9	357.9
62.5°	324.8	341.3	412.9	468.0	506.5	567.1	523.0	468.0	401.9	341.3	335.8
65°	280.8	308.3	363.4	390.9	434.9	490.0	446.0	407.4	352.4	302.8	297.3
67.5°	214.7	225.7	269.8	302.8	330.3	379.9	357.9	308.3	269.8	231.2	231.2
70°	148.7	159.7	192.7	209.2	236.7	264.3	247.8	209.2	181.7	159.7	154.2
72.5°	104.6	110.1	121.1	132.1	143.1	154.2	148.7	121.1	104.6	99.1	93.6
75°	82.6	93.6	99.1	93.6	88.1	82.6	82.6	71.6	60.6	55.1	55.1
77.5°	82.6	88.1	82.6	71.6	60.6	55.1	49.6	44.0	33.0	27.5	33.0
80°	71.6	71.6	71.6	60.6	55.1	49.6	44.0	38.5	33.0	27.5	27.5
82.5°	77.1	77.1	71.6	60.6	60.6	49.6	49.6	44.0	38.5	27.5	27.5
85°	0.0	0.0	0.0	11.0	27.5	49.6	49.6	44.0	38.5	33.0	33.0
87.5°	0.0	0.0	0.0	0.0	5.5	11.0	22.0	27.5	33.0	33.0	33.0
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°	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2
2.5°	12156.3	12365.5	12761.9	13158.3	13400.6	13686.9	14204.4	14479.7	14837.5	15013.7	15360.5
5°	9794.4	10289.9	10466.1	10917.5	11402.0	11886.5	12657.3	13505.2	14209.9	14694.4	15322.0
7.5°	7146.2	7261.8	7944.5	8247.3	9040.1	9921.0	10972.6	12040.7	12932.6	13725.4	14204.4
10°	5356.9	5780.9	6210.3	6788.4	7427.0	8335.4	9343.0	10521.1	11677.3	12470.1	13075.7
12.5°	4305.4	4641.2	5213.8	5835.9	6623.2	7223.3	8236.3	9403.5	10901.0	11677.3	12475.6
15°	3259.3	3688.7	4338.4	4982.5	5813.9	6447.0	7471.1	8941.0	10868.0	11936.1	12624.3
17.5°	2416.9	2708.7	3292.3	4013.6	4861.4	5753.3	7135.2	8891.5	11236.9	12508.7	13218.9
20°	1849.9	1949.0	2317.8	2962.0	3881.4	5048.6	6590.2	9106.2	12327.0	13901.6	14622.8
22.5°	1497.5	1541.6	1684.7	2130.7	3022.6	4432.0	6331.4	9254.9	13554.7	15569.8	16533.2
25°	1304.8	1293.8	1387.4	1580.1	2361.9	3853.9	6001.1	9816.4	15057.7	17529.7	18394.1
27.5°	1189.2	1189.2	1233.2	1370.9	1960.0	3479.5	5791.9	10218.3	16571.8	19253.0	19721.0
30°	1128.6	1139.7	1266.3	1310.3	1629.6	3033.6	5445.0	10625.8	18019.7	20354.1	20998.2
32.5°	1046.1	1002.0	974.5	1084.6	1370.9	2631.7	5098.2	10796.4	19192.4	21703.0	22253.5
35°	803.8	781.8	814.8	897.4	1178.2	2290.3	4712.8	10989.1	20541.3	23266.5	23376.7
37.5°	726.7	721.2	743.3	814.8	991.0	1993.0	4437.5	10939.6	21570.8	24560.4	24263.1
40°	671.7	671.7	688.2	748.8	886.4	1783.8	4151.2	10895.5	22567.3	26013.8	25143.9
42.5°	627.6	627.6	655.2	693.7	842.4	1646.2	3936.5	10835.0	23404.2	26905.7	25661.5
45°	567.1	583.6	627.6	666.2	853.4	1552.6	3776.8	10603.7	23690.5	26894.7	25413.7
47.5°	523.0	545.1	589.1	644.2	770.8	1525.0	3666.7	10400.0	23591.4	26234.0	24637.4
50°	473.5	501.0	561.6	655.2	655.2	1470.0	3551.1	10581.7	23519.8	25722.0	23894.2
52°	440.4	462.5	539.5	638.6	572.6	1354.4	3479.5	10934.1	23811.6	25656.0	23563.8
52.5°	434.9	451.5	523.0	627.6	545.1	1332.3	3430.0	11016.6	23905.2	25490.8	23789.6
55°	385.4	407.4	479.0	490.0	446.0	1095.6	3270.3	11203.8	23442.7	25166.0	23574.9
57.5°	363.4	374.4	423.9	401.9	385.4	825.8	2813.3	10912.0	20822.1	22352.6	21934.2
60°	335.8	346.9	396.4	313.8	324.8	578.1	2114.1	9475.1	16720.4	18625.3	19379.6
62.5°	324.8	319.3	374.4	253.3	275.3	418.4	1492.0	7702.3	12883.0	15333.0	16637.8
65°	286.3	280.8	269.8	214.7	236.7	324.8	891.9	5026.6	9078.7	11600.2	12316.0
67.5°	220.2	231.2	198.2	170.7	198.2	253.3	495.5	2251.8	4762.3	6959.0	7537.1
70°	154.2	165.2	159.7	148.7	176.2	209.2	286.3	770.8	1971.0	3655.7	4030.1
72.5°	93.6	115.6	121.1	126.6	154.2	181.7	203.7	247.8	523.0	1293.8	1607.6
75°	55.1	77.1	93.6	110.1	126.6	154.2	170.7	176.2	181.7	242.2	390.9
77.5°	38.5	55.1	82.6	104.6	126.6	154.2	181.7	192.7	181.7	170.7	181.7
80°	33.0	55.1	77.1	99.1	132.1	159.7	181.7	181.7	176.2	154.2	165.2
82.5°	33.0	55.1	82.6	104.6	126.6	154.2	176.2	181.7	165.2	154.2	159.7
85°	38.5	60.6	88.1	110.1	137.6	126.6	115.6	93.6	88.1	71.6	77.1
87.5°	38.5	55.1	55.1	60.6	66.1	66.1	66.1	60.6	49.6	44.0	44.0
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: P532423

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2	14072.2
2.5°	15377.1	15817.5	15801.0	15812.0	15745.9	15300.0	15085.3	14540.2	14694.4	14628.3
5°	15966.2	16401.1	16775.5	16731.4	16224.9	15619.3	14721.9	13874.0	13642.8	13301.5
7.5°	15377.1	16423.1	16770.0	16720.4	15971.7	15195.4	13763.9	12916.1	12514.2	12288.4
10°	14441.1	15652.3	16081.8	16169.9	15663.4	14485.2	13169.3	11809.5	11594.7	11203.8
12.5°	13907.1	14788.0	15052.2	15289.0	15112.8	14231.9	12717.9	11413.0	11115.7	10857.0
15°	13472.1	13995.2	14105.3	14375.0	14479.7	14006.2	12954.6	11842.5	11110.2	11082.7
17.5°	13874.0	13659.3	13257.4	13340.0	13670.3	14011.7	13565.7	12690.3	11980.1	11892.0
20°	14540.2	13593.3	12684.8	12888.5	13163.8	14209.9	14490.7	13874.0	13466.6	13240.9
22.5°	15305.5	13708.9	12503.2	12602.3	13125.3	14655.8	15988.2	15646.8	14887.1	14562.2
25°	16720.4	14028.2	12646.3	12712.4	13428.1	15278.0	17342.6	17595.8	17144.3	17078.3
27.5°	18102.3	14854.0	12960.1	12811.5	13582.2	15883.6	18162.9	19522.8	18730.0	18575.8
30°	18807.0	15525.7	13428.1	13174.8	14220.9	16252.4	18658.4	20778.0	20084.3	20012.8
32.5°	19886.1	16136.8	13791.5	13466.6	14578.8	16709.4	19583.3	22148.9	21477.2	21119.4
35°	20337.6	16803.0	14589.8	14209.9	15602.8	17348.1	20056.8	23371.2	23161.9	22815.1
37.5°	21207.5	17518.7	15531.2	15509.2	16841.5	18179.4	20910.2	25033.8	24995.3	24395.2
40°	21279.0	18300.5	17017.7	17711.4	18757.5	19627.4	21658.9	25496.3	26123.9	25716.5
42.5°	21389.1	19671.4	19588.8	20161.4	21058.8	20871.6	21686.4	25606.4	26564.4	26322.1
45°	21438.7	21042.3	22204.0	23261.0	23635.4	22501.3	21427.7	25397.2	26795.6	26190.0
47.5°	21042.3	22220.5	24318.1	26360.7	26470.8	23503.3	21317.6	25182.5	26933.3	26531.3
50°	21097.4	22958.2	26146.0	27973.8	27571.9	24389.7	21146.9	25050.4	26861.7	26591.9
52°	20965.2	22974.8	26404.7	27940.8	27660.0	23899.7	20855.1	24543.8	26795.6	26988.3
52.5°	21113.9	22875.6	26134.9	27962.8	27599.4	24141.9	20816.6	24824.6	26834.2	26443.3
55°	20601.8	21697.5	24554.8	25331.1	25276.1	21912.2	19632.9	23894.2	25826.6	25832.1
57.5°	18619.8	18807.0	19258.5	19242.0	18988.7	17226.9	16792.0	21972.7	23024.3	22451.7
60°	16406.6	13769.4	12552.7	12057.2	11776.4	11490.1	14854.0	20100.8	20199.9	19957.7
62.5°	14176.8	9546.7	7928.0	7790.4	7856.5	8902.5	14358.5	19357.6	18763.0	18240.0
65°	11440.6	6959.0	5758.8	5577.1	6221.3	7349.9	11622.3	14843.0	13929.1	13494.2
67.5°	7184.8	5076.1	3892.4	3551.1	4327.4	5059.6	7636.2	9326.4	8302.4	7702.3
70°	4261.3	2835.4	1761.8	1580.1	1778.3	2697.7	4277.8	4652.2	3848.4	3540.1
72.5°	1679.2	1040.6	490.0	418.4	434.9	947.0	1574.6	1536.1	1161.7	1035.0
75°	451.5	313.8	170.7	137.6	115.6	176.2	253.3	165.2	60.6	77.1
77.5°	209.2	187.2	148.7	115.6	88.1	66.1	33.0	11.0	11.0	5.5
80°	181.7	159.7	137.6	115.6	88.1	55.1	27.5	5.5	5.5	5.5
82.5°	170.7	148.7	126.6	104.6	82.6	55.1	27.5	5.5	0.0	0.0
85°	71.6	93.6	104.6	99.1	88.1	55.1	27.5	5.5	0.0	0.0
87.5°	38.5	33.0	27.5	22.0	16.5	11.0	11.0	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

(END OF REPORT)