

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: P534009

Luminaire Tested: **GALN-SA9C-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534009  
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-SA9C-727-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA 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: 29467 lumens  
Efficiency: N/A  
Efficacy: 61.3 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

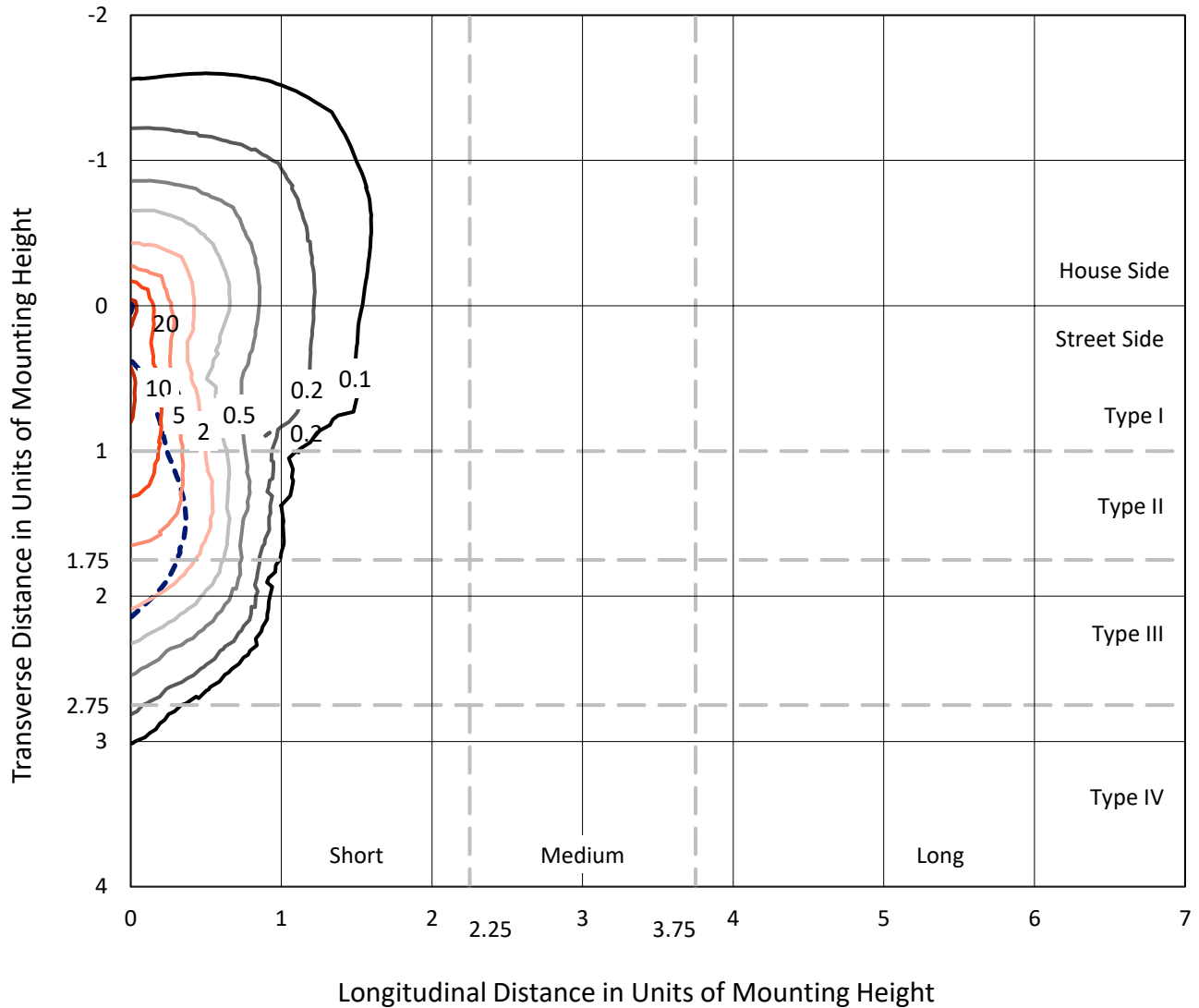
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

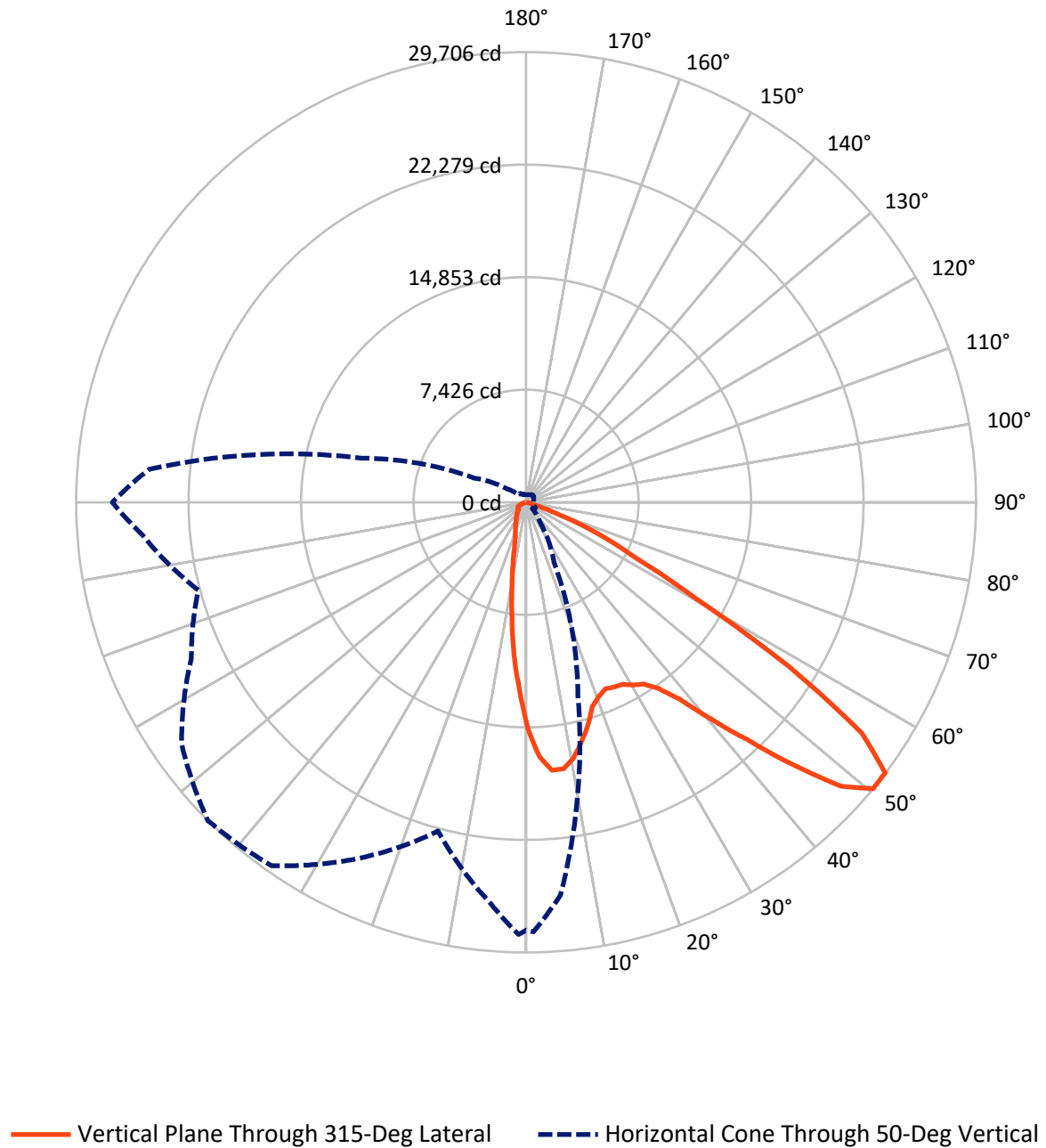
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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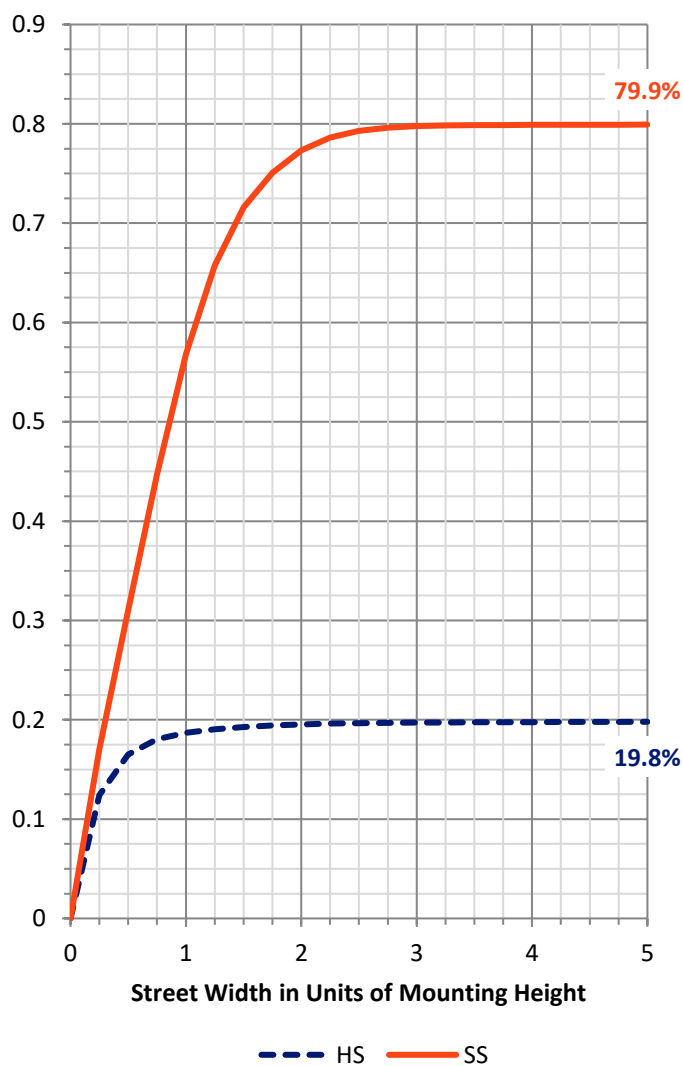
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5902.2	0.0	5902.2
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	23564.8	0.0	23564.8
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	29467.0	0.0	29467.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1089.2	3.7
10°-20°	2164.8	7.3
20°-30°	3252.2	11.0
30°-40°	4881.4	16.6
40°-50°	6860.5	23.3
50°-60°	7400.2	25.1
60°-70°	3435.9	11.7
70°-80°	323.3	1.1
80°-90°	59.6	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°	29467.0	100.0
0°-180°	29467.0	100.0

**Coefficient of Utilization**



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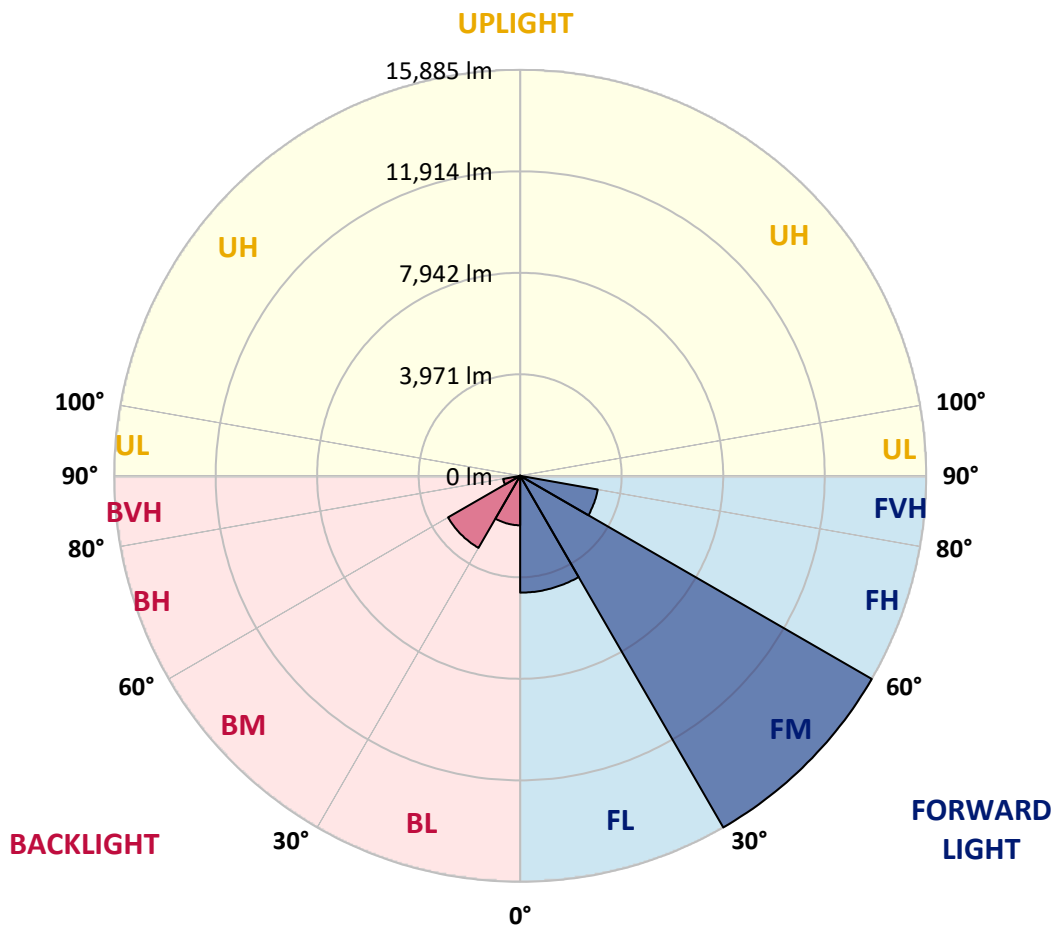
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4571.6	15.5			
FM (30°-60°)	15884.9	53.9			
FH (60°-80°)	3081.4	10.5			G2/5000
FVH (80°-90°)	26.8	0.1			G1/100
BL (0°-30°)	1934.6	6.6	B3/2500		
BM (30°-60°)	3257.2	11.1	B3/5000		
BH (60°-80°)	677.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	32.7	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°	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5
2.5°	15534.0	15294.3	14990.3	14738.9	14364.7	13610.5	13405.9	13160.3	12955.7	12680.9	12295.0
5°	14125.0	14049.0	13908.7	12961.5	12277.5	11365.5	10617.1	10301.4	9886.3	9547.2	9301.7
7.5°	13049.2	12745.2	12300.9	11347.9	10254.6	9278.3	8448.1	7962.8	7413.3	7226.2	6892.9
10°	11897.5	11967.6	11312.8	9974.0	8652.7	7863.5	7349.0	6881.3	6384.3	6056.9	5583.3
12.5°	11529.2	11301.2	10798.4	9143.8	8015.5	7278.8	6653.2	6074.4	5548.3	5022.1	4566.1
15°	11768.9	11418.1	10716.5	8968.4	7524.4	6606.5	5823.0	5039.6	4554.4	3882.0	3408.5
17.5°	12628.3	12347.7	11406.4	9155.5	7273.0	5963.4	4799.9	3993.1	3250.6	2642.6	2402.9
20°	14060.7	13663.1	12482.1	9395.2	6898.8	5185.8	3893.7	2899.8	2198.3	1941.0	1806.5
22.5°	15463.8	15247.5	13756.7	9857.1	6565.5	4495.9	2923.2	1952.7	1642.8	1596.1	1508.4
25°	18135.6	17486.7	15703.5	10693.1	6308.3	3847.0	2204.1	1572.7	1391.5	1356.4	1368.1
27.5°	19725.9	19182.1	17504.2	11248.5	6021.8	3350.0	1865.0	1444.1	1321.3	1245.3	1216.1
30°	21251.8	20620.4	18398.7	11575.9	5408.0	2823.8	1654.5	1385.6	1356.4	1245.3	1210.2
32.5°	22426.9	21807.2	19690.8	12067.0	5156.6	2484.7	1362.2	1081.6	1005.6	993.9	1099.1
35°	24227.6	23567.0	20795.8	12336.0	4963.6	2309.3	1181.0	964.7	877.0	841.9	847.7
37.5°	25905.5	25455.4	21818.9	12441.2	4759.0	2256.7	1058.2	865.3	789.3	765.9	760.0
40°	27308.7	26303.1	22789.4	12552.3	4671.3	2157.3	982.2	789.3	736.7	701.6	701.6
42.5°	27951.8	26928.7	23876.8	12488.0	4647.9	1999.5	982.2	725.0	684.0	649.0	643.1
45°	27811.5	27396.4	24362.1	12458.7	4647.9	1841.6	894.5	707.4	649.0	602.2	590.5
47.5°	28174.0	27630.2	24970.1	12581.5	4554.4	1730.5	754.2	742.5	613.9	555.4	543.7
50°	28238.3	28343.5	26028.3	13218.8	4349.7	1590.2	590.5	730.8	590.5	502.8	491.1
52°	28659.2	28004.4	26349.9	13557.9	4133.4	1485.0	496.9	625.6	567.1	467.7	456.0
52.5°	28080.4	28507.2	26425.9	13680.7	4156.8	1414.8	479.4	613.9	555.4	467.7	438.5
55°	27431.5	27840.7	26116.0	13943.7	3811.9	1110.8	374.2	444.3	502.8	409.3	391.7
57.5°	23841.8	24256.9	22695.9	12768.6	3104.5	783.4	309.9	333.2	444.3	380.0	362.5
60°	21193.3	20895.2	19047.7	10652.2	2204.1	438.5	245.6	257.2	485.3	350.8	344.9
62.5°	19369.2	18732.0	15919.8	8225.9	1344.7	292.3	192.9	198.8	374.2	327.4	327.4
65°	14329.6	13616.3	10576.2	4975.3	660.6	204.6	146.2	157.9	233.9	280.6	280.6
67.5°	8179.2	7904.4	5109.8	2245.0	274.8	128.6	111.1	122.8	181.2	228.0	216.3
70°	3759.3	3373.4	1964.4	473.6	128.6	87.7	87.7	99.4	146.2	169.5	157.9
72.5°	1099.1	1040.7	479.4	76.0	52.6	52.6	58.5	76.0	111.1	128.6	116.9
75°	81.9	52.6	35.1	23.4	23.4	35.1	46.8	76.0	111.1	122.8	99.4
77.5°	5.8	11.7	5.8	5.8	17.5	35.1	52.6	93.5	146.2	152.0	111.1
80°	5.8	5.8	0.0	5.8	17.5	35.1	58.5	105.2	163.7	175.4	93.5
82.5°	0.0	0.0	0.0	5.8	23.4	46.8	70.2	111.1	152.0	187.1	99.4
85°	0.0	0.0	0.0	5.8	35.1	64.3	81.9	29.2	17.5	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°	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5
2.5°	12569.8	12417.8	12359.4	12412.0	12394.4	12376.9	12698.5	12628.3	12616.6	12721.8	12698.5
5°	9436.1	9167.2	9903.9	9605.7	9915.6	10102.6	10137.7	10155.3	10371.6	10143.6	10441.7
7.5°	6723.4	6793.6	6787.7	6986.5	7343.1	7658.8	7845.9	7699.8	7688.1	7658.8	7530.2
10°	5372.9	5250.1	5226.7	5179.9	5291.0	5560.0	5788.0	5606.7	5478.1	5653.5	5600.9
12.5°	4390.7	4221.1	4127.6	3940.5	3946.3	4127.6	4127.6	4127.6	4256.2	4355.6	4431.6
15°	3367.5	3227.2	3227.2	3040.1	2999.2	3005.1	3098.6	3110.3	3314.9	3373.4	3402.6
17.5°	2356.1	2280.1	2367.8	2443.8	2397.0	2408.7	2443.8	2455.5	2484.7	2461.3	2519.8
20°	1812.4	1800.7	1824.1	1958.6	2057.9	2116.4	2075.5	2017.0	1981.9	1900.1	1900.1
22.5°	1537.6	1561.0	1601.9	1713.0	1841.6	1876.7	1829.9	1695.5	1590.2	1578.5	1584.4
25°	1368.1	1391.5	1455.8	1525.9	1596.1	1654.5	1607.8	1508.4	1449.9	1397.3	1397.3
27.5°	1262.8	1274.5	1309.6	1362.2	1420.7	1467.5	1449.9	1397.3	1333.0	1309.6	1257.0
30°	1181.0	1198.5	1239.4	1251.1	1303.8	1327.1	1297.9	1286.2	1245.3	1216.1	1198.5
32.5°	1140.1	1134.2	1163.4	1175.1	1181.0	1198.5	1163.4	1181.0	1175.1	1128.4	1110.8
35°	859.4	906.2	982.2	1046.5	1064.1	1087.4	1081.6	1058.2	993.9	941.3	877.0
37.5°	771.7	801.0	841.9	894.5	964.7	993.9	982.2	923.7	847.7	812.7	801.0
40°	713.3	730.8	765.9	801.0	871.1	923.7	882.8	830.2	771.7	742.5	725.0
42.5°	660.6	666.5	684.0	719.1	771.7	853.6	783.4	713.3	689.9	672.3	660.6
45°	602.2	602.2	625.6	643.1	701.6	777.6	707.4	643.1	631.4	619.7	613.9
47.5°	555.4	561.3	573.0	596.3	643.1	695.7	649.0	596.3	567.1	561.3	549.6
50°	496.9	502.8	526.2	549.6	608.0	637.3	608.0	549.6	520.3	502.8	502.8
52°	450.2	467.7	491.1	537.9	578.8	625.6	590.5	526.2	491.1	473.6	461.9
52.5°	444.3	456.0	479.4	532.0	578.8	619.7	584.6	520.3	479.4	467.7	456.0
55°	397.6	415.1	456.0	520.3	573.0	619.7	573.0	514.5	456.0	426.8	415.1
57.5°	380.0	391.7	444.3	526.2	567.1	619.7	573.0	514.5	456.0	403.4	391.7
60°	362.5	385.9	444.3	508.6	561.3	625.6	578.8	508.6	444.3	380.0	380.0
62.5°	344.9	362.5	438.5	496.9	537.9	602.2	555.4	496.9	426.8	362.5	356.6
65°	298.2	327.4	385.9	415.1	461.9	520.3	473.6	432.6	374.2	321.6	315.7
67.5°	228.0	239.7	286.5	321.6	350.8	403.4	380.0	327.4	286.5	245.6	245.6
70°	157.9	169.5	204.6	222.2	251.4	280.6	263.1	222.2	192.9	169.5	163.7
72.5°	111.1	116.9	128.6	140.3	152.0	163.7	157.9	128.6	111.1	105.2	99.4
75°	87.7	99.4	105.2	99.4	93.5	87.7	87.7	76.0	64.3	58.5	58.5
77.5°	87.7	93.5	87.7	76.0	64.3	58.5	52.6	46.8	35.1	29.2	35.1
80°	76.0	76.0	76.0	64.3	58.5	52.6	46.8	40.9	35.1	29.2	29.2
82.5°	81.9	81.9	76.0	64.3	64.3	52.6	52.6	46.8	40.9	29.2	29.2
85°	0.0	0.0	0.0	11.7	29.2	52.6	52.6	46.8	40.9	35.1	35.1
87.5°	0.0	0.0	0.0	0.0	5.8	11.7	23.4	29.2	35.1	35.1	35.1
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5
2.5°	12908.9	13131.1	13552.0	13973.0	14230.2	14534.2	15083.8	15376.1	15756.1	15943.2	16311.5
5°	10400.8	10927.0	11114.1	11593.5	12108.0	12622.4	13441.0	14341.3	15089.6	15604.1	16270.6
7.5°	7588.7	7711.4	8436.4	8758.0	9599.8	10535.3	11651.9	12786.1	13733.3	14575.2	15083.8
10°	5688.6	6138.8	6594.8	7208.7	7886.8	8851.5	9921.4	11172.5	12400.3	13242.2	13885.3
12.5°	4571.9	4928.5	5536.6	6197.2	7033.3	7670.5	8746.3	9985.7	11575.9	12400.3	13248.0
15°	3461.1	3917.1	4607.0	5291.0	6173.8	6846.2	7933.6	9494.6	11540.9	12675.1	13405.9
17.5°	2566.6	2876.4	3496.2	4262.0	5162.4	6109.5	7577.0	9442.0	11932.6	13283.1	14037.3
20°	1964.4	2069.6	2461.3	3145.4	4121.7	5361.2	6998.2	9670.0	13090.2	14762.2	15528.1
22.5°	1590.2	1637.0	1789.0	2262.6	3209.7	4706.4	6723.4	9827.9	14393.9	16533.7	17556.8
25°	1385.6	1373.9	1473.3	1677.9	2508.1	4092.5	6372.6	10424.2	15990.0	18615.0	19532.9
27.5°	1262.8	1262.8	1309.6	1455.8	2081.3	3694.9	6150.4	10851.0	17597.8	20445.0	20941.9
30°	1198.5	1210.2	1344.7	1391.5	1730.5	3221.4	5782.1	11283.6	19135.4	21614.3	22298.3
32.5°	1110.8	1064.1	1034.8	1151.7	1455.8	2794.6	5413.8	11464.9	20380.7	23046.6	23631.3
35°	853.6	830.2	865.3	953.0	1251.1	2432.1	5004.5	11669.5	21813.0	24707.0	24824.0
37.5°	771.7	765.9	789.3	865.3	1052.4	2116.4	4712.2	11616.9	22906.3	26080.9	25765.2
40°	713.3	713.3	730.8	795.1	941.3	1894.2	4408.2	11570.1	23964.5	27624.4	26700.7
42.5°	666.5	666.5	695.7	736.7	894.5	1748.1	4180.2	11505.8	24853.2	28571.5	27250.2
45°	602.2	619.7	666.5	707.4	906.2	1648.7	4010.7	11260.2	25157.2	28559.8	26987.1
47.5°	555.4	578.8	625.6	684.0	818.5	1619.5	3893.7	11043.9	25052.0	27858.3	26162.8
50°	502.8	532.0	596.3	695.7	695.7	1561.0	3770.9	11236.8	24976.0	27314.5	25373.5
52°	467.7	491.1	573.0	678.2	608.0	1438.2	3694.9	11611.0	25285.8	27244.4	25022.7
52.5°	461.9	479.4	555.4	666.5	578.8	1414.8	3642.3	11698.7	25385.2	27069.0	25262.4
55°	409.3	432.6	508.6	520.3	473.6	1163.4	3472.8	11897.5	24894.1	26724.0	25034.4
57.5°	385.9	397.6	450.2	426.8	409.3	877.0	2987.5	11587.6	22111.2	23736.5	23292.2
60°	356.6	368.3	420.9	333.2	344.9	613.9	2245.0	10061.7	17755.6	19778.5	20579.4
62.5°	344.9	339.1	397.6	268.9	292.3	444.3	1584.4	8179.2	13680.7	16282.3	17667.9
65°	304.0	298.2	286.5	228.0	251.4	344.9	947.1	5337.8	9640.8	12318.4	13078.5
67.5°	233.9	245.6	210.5	181.2	210.5	268.9	526.2	2391.2	5057.2	7389.9	8003.8
70°	163.7	175.4	169.5	157.9	187.1	222.2	304.0	818.5	2093.0	3882.0	4279.6
72.5°	99.4	122.8	128.6	134.5	163.7	192.9	216.3	263.1	555.4	1373.9	1707.2
75°	58.5	81.9	99.4	116.9	134.5	163.7	181.2	187.1	192.9	257.2	415.1
77.5°	40.9	58.5	87.7	111.1	134.5	163.7	192.9	204.6	192.9	181.2	192.9
80°	35.1	58.5	81.9	105.2	140.3	169.5	192.9	192.9	187.1	163.7	175.4
82.5°	35.1	58.5	87.7	111.1	134.5	163.7	187.1	192.9	175.4	163.7	169.5
85°	40.9	64.3	93.5	116.9	146.2	134.5	122.8	99.4	93.5	76.0	81.9
87.5°	40.9	58.5	58.5	64.3	70.2	70.2	70.2	64.3	52.6	46.8	46.8
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: P534009

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5	14943.5
2.5°	16329.1	16796.8	16779.3	16791.0	16720.8	16247.2	16019.2	15440.4	15604.1	15534.0
5°	16954.7	17416.5	17814.1	17767.3	17229.4	16586.3	15633.4	14733.0	14487.5	14125.0
7.5°	16329.1	17439.9	17808.2	17755.6	16960.5	16136.2	14616.1	13715.7	13288.9	13049.2
10°	15335.2	16621.4	17077.4	17171.0	16633.1	15382.0	13984.7	12540.6	12312.6	11897.5
12.5°	14768.1	15703.5	15984.1	16235.5	16048.5	15113.0	13505.3	12119.7	11803.9	11529.2
15°	14306.2	14861.6	14978.6	15265.0	15376.1	14873.3	13756.7	12575.7	11798.1	11768.9
17.5°	14733.0	14505.0	14078.2	14165.9	14516.7	14879.2	14405.6	13476.0	12721.8	12628.3
20°	15440.4	14434.8	13470.2	13686.5	13978.8	15089.6	15387.8	14733.0	14300.4	14060.7
22.5°	16253.1	14557.6	13277.2	13382.5	13937.9	15563.2	16978.0	16615.6	15808.8	15463.8
25°	17755.6	14896.7	13429.3	13499.4	14259.5	16223.9	18416.3	18685.2	18205.8	18135.6
27.5°	19223.1	15773.7	13762.5	13604.7	14423.2	16867.0	19287.4	20731.5	19889.6	19725.9
30°	19971.4	16486.9	14259.5	13990.5	15101.3	17258.7	19813.6	22064.4	21327.8	21251.8
32.5°	21117.3	17135.9	14645.3	14300.4	15481.4	17743.9	20795.8	23520.2	22806.9	22426.9
35°	21596.7	17843.3	15493.0	15089.6	16568.8	18422.1	21298.6	24818.1	24595.9	24227.6
37.5°	22520.5	18603.4	16492.8	16469.4	17884.2	19304.9	22204.8	26583.7	26542.8	25905.5
40°	22596.5	19433.5	18071.3	18808.0	19918.8	20842.5	22999.9	27074.8	27741.3	27308.7
42.5°	22713.4	20889.3	20801.6	21409.6	22362.6	22163.8	23029.1	27191.8	28209.0	27951.8
45°	22766.0	22345.1	23578.7	24701.2	25098.7	23894.4	22754.3	26969.6	28454.6	27811.5
47.5°	22345.1	23596.2	25823.7	27992.7	28109.7	24958.4	22637.4	26741.6	28600.8	28174.0
50°	22403.5	24379.6	27764.7	29705.7	29278.9	25899.7	22456.2	26601.3	28524.7	28238.3
52°	22263.2	24397.2	28039.5	29670.6	29372.5	25379.4	22146.3	26063.4	28454.6	28659.2
52.5°	22421.1	24291.9	27753.0	29694.0	29308.2	25636.6	22105.4	26361.6	28495.5	28080.4
55°	21877.4	23040.8	26075.1	26899.4	26841.0	23268.8	20848.4	25373.5	27425.6	27431.5
57.5°	19772.6	19971.4	20450.8	20433.3	20164.3	18293.5	17831.6	23333.1	24449.8	23841.8
60°	17422.4	14621.9	13329.9	12803.7	12505.5	12201.5	15773.7	21345.3	21450.6	21193.3
62.5°	15054.6	10137.7	8418.9	8272.7	8342.9	9453.7	15247.5	20556.1	19924.6	19369.2
65°	12148.9	7389.9	6115.4	5922.4	6606.5	7805.0	12341.8	15762.0	14791.5	14329.6
67.5°	7629.6	5390.4	4133.4	3770.9	4595.3	5372.9	8109.0	9903.9	8816.4	8179.2
70°	4525.1	3010.9	1870.9	1677.9	1888.4	2864.8	4542.7	4940.2	4086.7	3759.3
72.5°	1783.2	1105.0	520.3	444.3	461.9	1005.6	1672.1	1631.2	1233.6	1099.1
75°	479.4	333.2	181.2	146.2	122.8	187.1	268.9	175.4	64.3	81.9
77.5°	222.2	198.8	157.9	122.8	93.5	70.2	35.1	11.7	11.7	5.8
80°	192.9	169.5	146.2	122.8	93.5	58.5	29.2	5.8	5.8	5.8
82.5°	181.2	157.9	134.5	111.1	87.7	58.5	29.2	5.8	0.0	0.0
85°	76.0	99.4	111.1	105.2	93.5	58.5	29.2	5.8	0.0	0.0
87.5°	40.9	35.1	29.2	23.4	17.5	11.7	11.7	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)