

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: P533333

Luminaire Tested: **GALN-SA8D-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533333  
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-730-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 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: 31451 lumens  
Efficiency: N/A  
Efficacy: 63.8 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

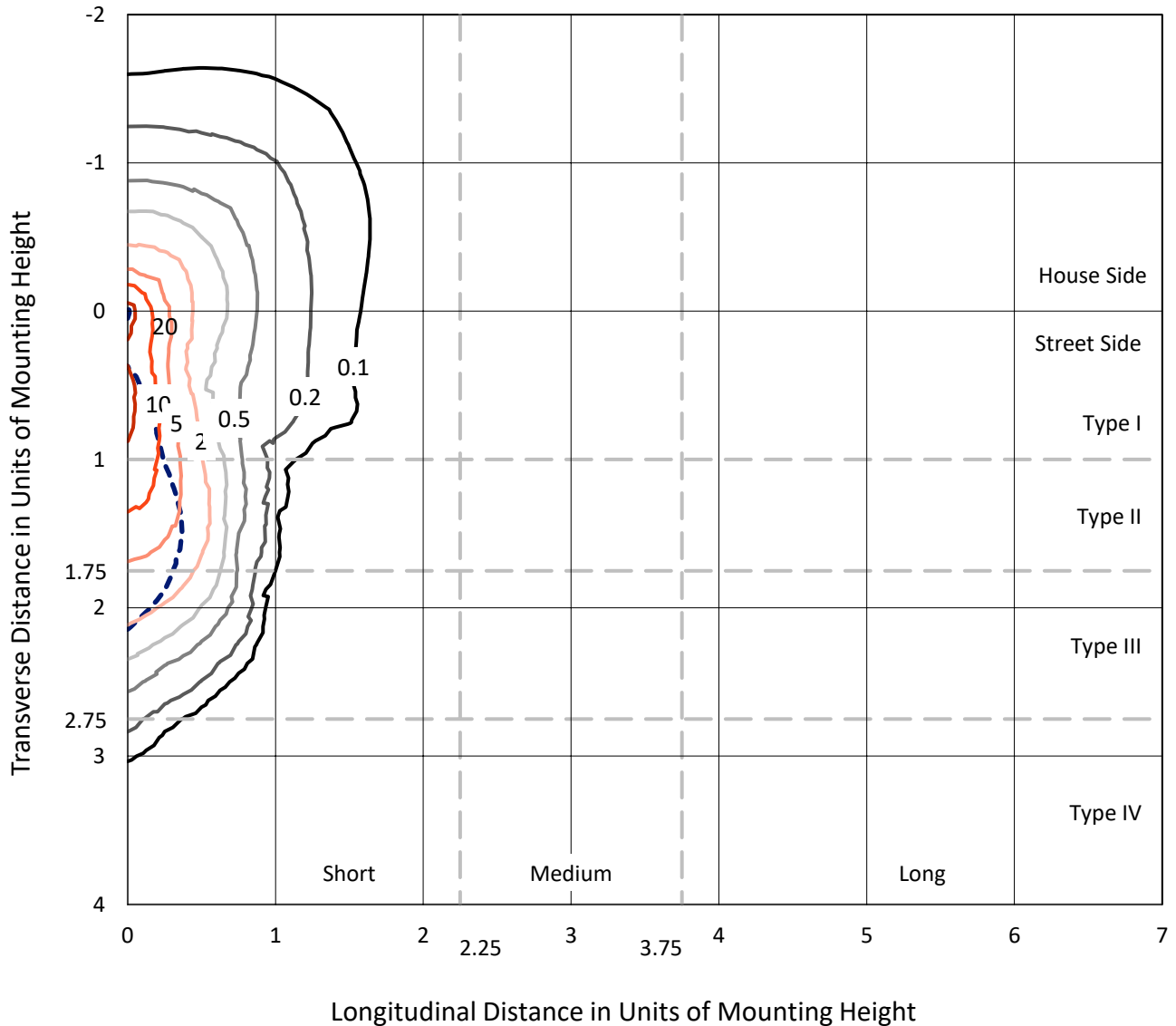
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

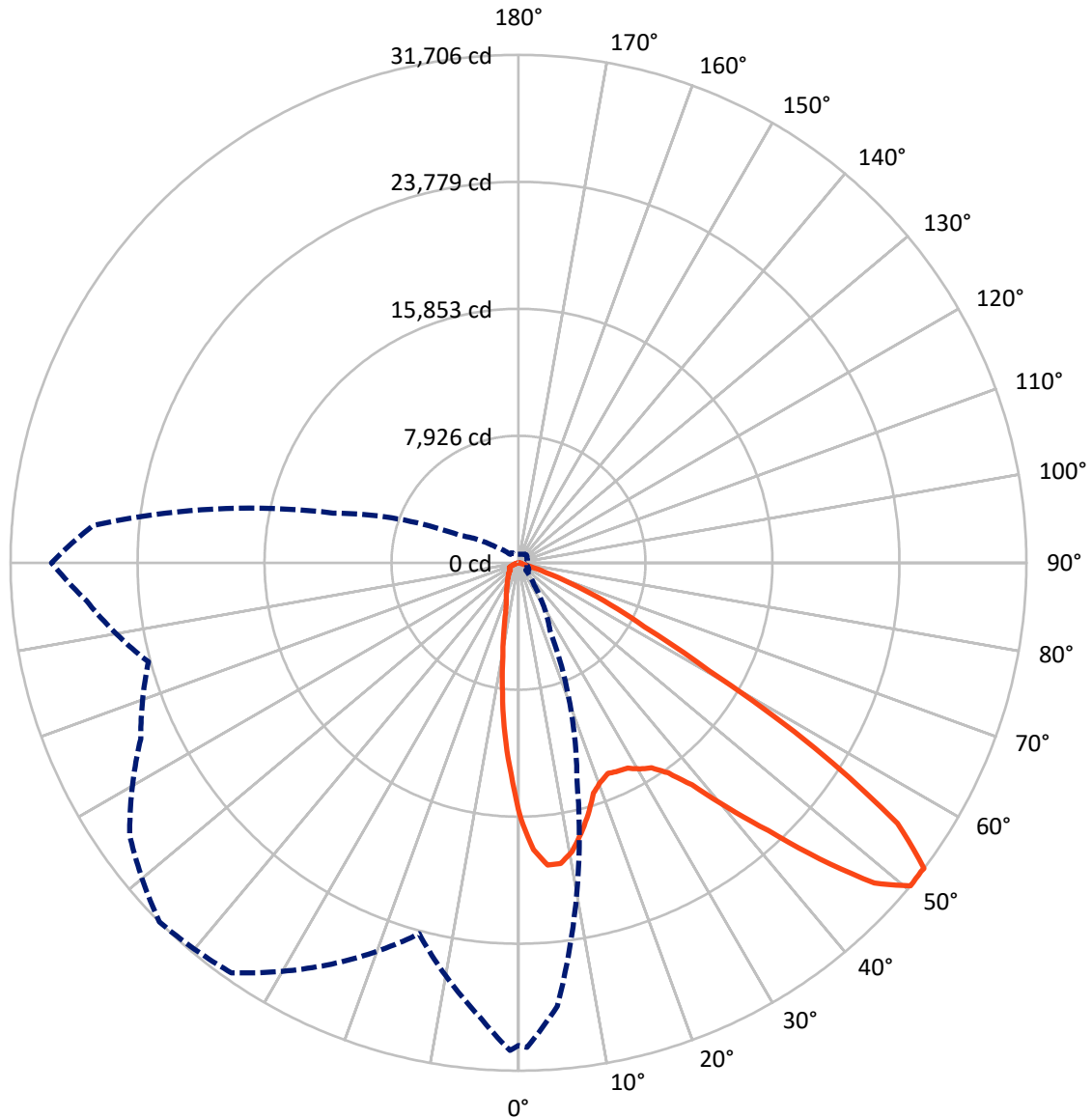
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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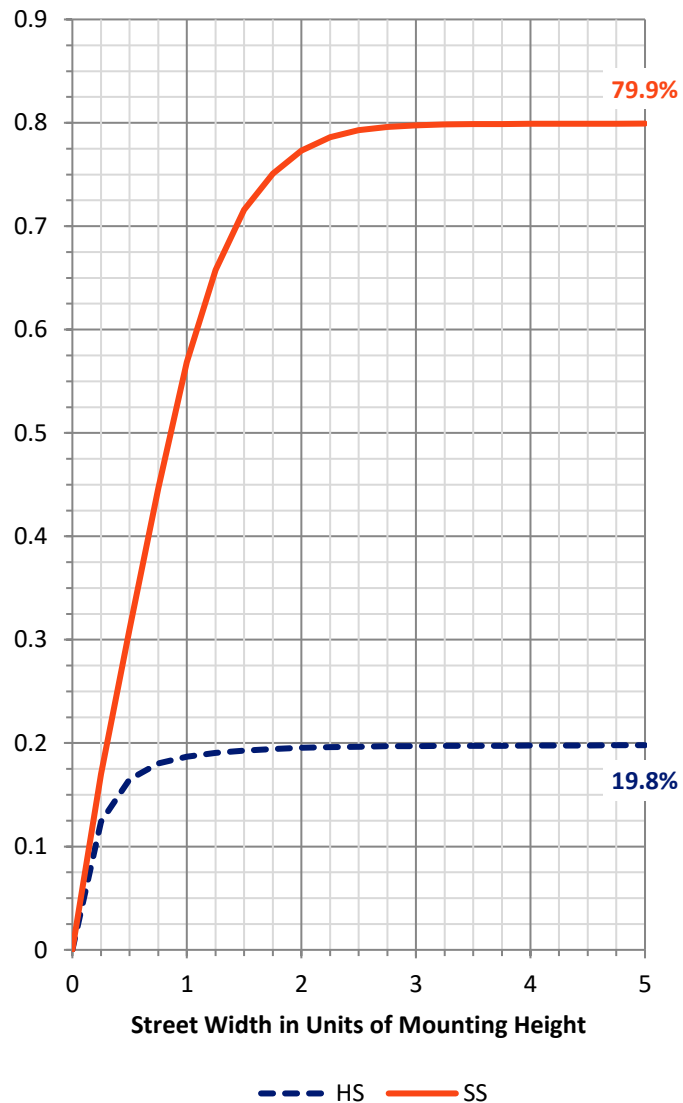
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6299.6	0.0	6299.6
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	25151.4	0.0	25151.4
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	31451.0	0.0	31451.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1162.5	3.7
10°-20°	2310.5	7.3
20°-30°	3471.1	11.0
30°-40°	5210.1	16.6
40°-50°	7322.4	23.3
50°-60°	7898.5	25.1
60°-70°	3667.2	11.7
70°-80°	345.0	1.1
80°-90°	63.6	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°	31451.0	100.0
0°-180°	31451.0	100.0

**Coefficient of Utilization**



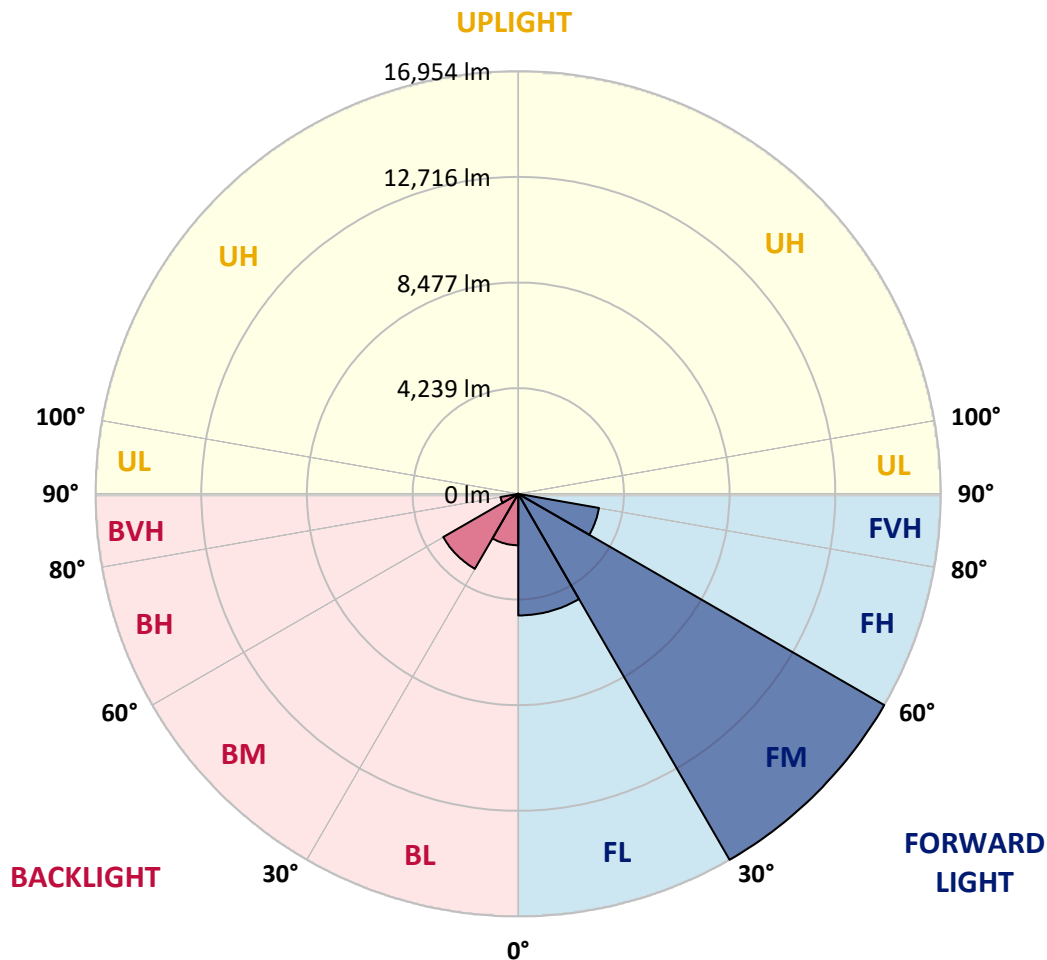
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4879.4	15.5			
FM (30°-60°)	16954.4	53.9			
FH (60°-80°)	3288.9	10.5			G2/5000
FVH (80°-90°)	28.6	0.1			G1/100
BL (0°-30°)	2064.9	6.6	B3/2500		
BM (30°-60°)	3476.5	11.1	B3/5000		
BH (60°-80°)	723.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	35.0	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°	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6
2.5°	16579.9	16324.0	15999.5	15731.2	15331.9	14526.9	14308.5	14046.4	13828.0	13534.7	13122.9
5°	15076.0	14994.9	14845.1	13834.2	13104.1	12130.7	11332.0	10995.0	10552.0	10190.0	9928.0
7.5°	13927.8	13603.4	13129.1	12112.0	10945.1	9903.0	9016.9	8499.0	7912.4	7712.7	7357.0
10°	12698.5	12773.4	12074.5	10645.6	9235.3	8392.9	7843.8	7344.6	6814.2	6464.7	5959.3
12.5°	12305.4	12062.1	11525.4	9759.5	8555.1	7768.9	7101.2	6483.4	5921.8	5360.2	4873.5
15°	12561.3	12186.9	11438.1	9572.3	8031.0	7051.3	6215.1	5378.9	4861.0	4143.4	3638.0
17.5°	13478.6	13179.0	12174.4	9772.0	7762.6	6364.9	5123.1	4262.0	3469.5	2820.5	2564.7
20°	15007.4	14583.0	13322.6	10027.8	7363.3	5534.9	4155.9	3095.1	2346.3	2071.7	1928.2
22.5°	16505.0	16274.1	14682.9	10520.8	7007.6	4798.6	3120.0	2084.2	1753.5	1703.5	1609.9
25°	19356.7	18664.1	16760.8	11413.1	6733.0	4106.0	2352.5	1678.6	1485.1	1447.7	1460.2
27.5°	21054.0	20473.7	18682.8	12005.9	6427.3	3575.6	1990.6	1541.3	1410.3	1329.1	1297.9
30°	22682.7	22008.7	19637.5	12355.3	5772.1	3014.0	1765.9	1478.9	1447.7	1329.1	1291.7
32.5°	23936.9	23275.5	21016.6	12879.5	5503.7	2652.0	1453.9	1154.4	1073.3	1060.8	1173.1
35°	25858.9	25153.7	22195.9	13166.5	5297.8	2464.8	1260.5	1029.6	936.0	898.6	904.8
37.5°	27649.8	27169.3	23287.9	13278.9	5079.4	2408.7	1129.5	923.5	842.4	817.4	811.2
40°	29147.4	28074.1	24323.8	13397.4	4985.8	2302.6	1048.3	842.4	786.2	748.8	748.8
42.5°	29833.8	28741.8	25484.4	13328.8	4960.9	2134.1	1048.3	773.8	730.1	692.6	686.4
45°	29684.0	29241.0	26002.4	13297.6	4960.9	1965.6	954.7	755.0	692.6	642.7	630.2
47.5°	30070.9	29490.6	26651.3	13428.6	4861.0	1847.1	805.0	792.5	655.2	592.8	580.3
50°	30139.5	30251.9	27780.8	14108.8	4642.6	1697.3	630.2	780.0	630.2	536.6	524.2
52°	30588.8	29889.9	28124.0	14470.7	4411.7	1585.0	530.4	667.7	605.3	499.2	486.7
52.5°	29971.1	30426.6	28205.1	14601.8	4436.7	1510.1	511.7	655.2	592.8	499.2	468.0
55°	29278.4	29715.2	27874.4	14882.6	4068.5	1185.6	399.4	474.2	536.6	436.8	418.1
57.5°	25447.0	25890.1	24224.0	13628.3	3313.5	836.2	330.7	355.7	474.2	405.6	386.9
60°	22620.3	22302.0	20330.2	11369.4	2352.5	468.0	262.1	274.6	517.9	374.4	368.2
62.5°	20673.4	19993.2	16991.7	8779.8	1435.2	312.0	205.9	212.2	399.4	349.4	349.4
65°	15294.4	14533.1	11288.3	5310.3	705.1	218.4	156.0	168.5	249.6	299.5	299.5
67.5°	8729.9	8436.6	5453.8	2396.2	293.3	137.3	118.6	131.0	193.4	243.4	230.9
70°	4012.4	3600.5	2096.7	505.4	137.3	93.6	93.6	106.1	156.0	181.0	168.5
72.5°	1173.1	1110.7	511.7	81.1	56.2	56.2	62.4	81.1	118.6	137.3	124.8
75°	87.4	56.2	37.4	25.0	25.0	37.4	49.9	81.1	118.6	131.0	106.1
77.5°	6.2	12.5	6.2	6.2	18.7	37.4	56.2	99.8	156.0	162.2	118.6
80°	6.2	6.2	0.0	6.2	18.7	37.4	62.4	112.3	174.7	187.2	99.8
82.5°	0.0	0.0	0.0	6.2	25.0	49.9	74.9	118.6	162.2	199.7	106.1
85°	0.0	0.0	0.0	6.2	37.4	68.6	87.4	31.2	18.7	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°	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6
2.5°	13416.2	13253.9	13191.5	13247.7	13229.0	13210.2	13553.4	13478.6	13466.1	13578.4	13553.4
5°	10071.5	9784.4	10570.7	10252.4	10583.2	10782.8	10820.3	10839.0	11069.9	10826.5	11144.8
7.5°	7176.1	7251.0	7244.7	7456.9	7837.5	8174.5	8374.2	8218.2	8205.7	8174.5	8037.2
10°	5734.6	5603.6	5578.6	5528.7	5647.3	5934.3	6177.7	5984.2	5846.9	6034.1	5978.0
12.5°	4686.3	4505.3	4405.5	4205.8	4212.0	4405.5	4405.5	4405.5	4542.8	4648.9	4730.0
15°	3594.3	3444.5	3444.5	3244.8	3201.2	3207.4	3307.2	3319.7	3538.1	3600.5	3631.7
17.5°	2514.7	2433.6	2527.2	2608.3	2558.4	2570.9	2608.3	2620.8	2652.0	2627.1	2689.5
20°	1934.4	1921.9	1946.9	2090.4	2196.5	2258.9	2215.2	2152.8	2115.4	2028.0	2028.0
22.5°	1641.1	1666.1	1709.8	1828.3	1965.6	2003.1	1953.1	1809.6	1697.3	1684.8	1691.1
25°	1460.2	1485.1	1553.8	1628.7	1703.5	1765.9	1716.0	1609.9	1547.5	1491.4	1491.4
27.5°	1347.9	1360.3	1397.8	1453.9	1516.3	1566.3	1547.5	1491.4	1422.7	1397.8	1341.6
30°	1260.5	1279.2	1322.9	1335.4	1391.5	1416.5	1385.3	1372.8	1329.1	1297.9	1279.2
32.5°	1216.8	1210.6	1241.8	1254.3	1260.5	1279.2	1241.8	1260.5	1254.3	1204.3	1185.6
35°	917.3	967.2	1048.3	1117.0	1135.7	1160.7	1154.4	1129.5	1060.8	1004.7	936.0
37.5°	823.7	854.9	898.6	954.7	1029.6	1060.8	1048.3	985.9	904.8	867.4	854.9
40°	761.3	780.0	817.4	854.9	929.8	985.9	942.3	886.1	823.7	792.5	773.8
42.5°	705.1	711.4	730.1	767.5	823.7	911.1	836.2	761.3	736.3	717.6	705.1
45°	642.7	642.7	667.7	686.4	748.8	829.9	755.0	686.4	673.9	661.4	655.2
47.5°	592.8	599.0	611.5	636.5	686.4	742.6	692.6	636.5	605.3	599.0	586.6
50°	530.4	536.6	561.6	586.6	649.0	680.2	649.0	586.6	555.4	536.6	536.6
52°	480.5	499.2	524.2	574.1	617.8	667.7	630.2	561.6	524.2	505.4	493.0
52.5°	474.2	486.7	511.7	567.8	617.8	661.4	624.0	555.4	511.7	499.2	486.7
55°	424.3	443.0	486.7	555.4	611.5	661.4	611.5	549.1	486.7	455.5	443.0
57.5°	405.6	418.1	474.2	561.6	605.3	661.4	611.5	549.1	486.7	430.6	418.1
60°	386.9	411.8	474.2	542.9	599.0	667.7	617.8	542.9	474.2	405.6	405.6
62.5°	368.2	386.9	468.0	530.4	574.1	642.7	592.8	530.4	455.5	386.9	380.6
65°	318.2	349.4	411.8	443.0	493.0	555.4	505.4	461.8	399.4	343.2	337.0
67.5°	243.4	255.8	305.8	343.2	374.4	430.6	405.6	349.4	305.8	262.1	262.1
70°	168.5	181.0	218.4	237.1	268.3	299.5	280.8	237.1	205.9	181.0	174.7
72.5°	118.6	124.8	137.3	149.8	162.2	174.7	168.5	137.3	118.6	112.3	106.1
75°	93.6	106.1	112.3	106.1	99.8	93.6	93.6	81.1	68.6	62.4	62.4
77.5°	93.6	99.8	93.6	81.1	68.6	62.4	56.2	49.9	37.4	31.2	37.4
80°	81.1	81.1	81.1	68.6	62.4	56.2	49.9	43.7	37.4	31.2	31.2
82.5°	87.4	87.4	81.1	68.6	68.6	56.2	56.2	49.9	43.7	31.2	31.2
85°	0.0	0.0	0.0	12.5	31.2	56.2	56.2	49.9	43.7	37.4	37.4
87.5°	0.0	0.0	0.0	0.0	6.2	12.5	25.0	31.2	37.4	37.4	37.4
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°	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6
2.5°	13778.1	14015.2	14464.5	14913.8	15188.3	15512.8	16099.4	16411.4	16817.0	17016.7	17409.8
5°	11101.1	11662.7	11862.4	12374.1	12923.2	13472.3	14345.9	15306.9	16105.6	16654.7	17366.1
7.5°	8099.6	8230.7	9004.4	9347.6	10246.2	11244.6	12436.5	13647.0	14657.9	15556.5	16099.4
10°	6071.6	6552.1	7038.8	7694.0	8417.9	9447.5	10589.4	11924.8	13235.2	14133.8	14820.2
12.5°	4879.7	5260.4	5909.3	6614.5	7506.8	8187.0	9335.1	10658.0	12355.3	13235.2	14140.0
15°	3694.1	4180.8	4917.2	5647.3	6589.5	7307.1	8467.8	10133.9	12317.9	13528.5	14308.5
17.5°	2739.4	3070.1	3731.6	4549.0	5510.0	6520.9	8087.1	10077.7	12736.0	14177.4	14982.4
20°	2096.7	2209.0	2627.1	3357.2	4399.3	5722.1	7469.4	10321.1	13971.5	15756.2	16573.6
22.5°	1697.3	1747.2	1909.5	2414.9	3425.8	5023.3	7176.1	10489.6	15363.1	17646.9	18738.9
25°	1478.9	1466.4	1572.5	1790.9	2677.0	4368.0	6801.7	11126.0	17066.6	19868.4	20848.1
27.5°	1347.9	1347.9	1397.8	1553.8	2221.5	3943.7	6564.6	11581.6	18782.6	21821.5	22351.9
30°	1279.2	1291.7	1435.2	1485.1	1847.1	3438.3	6171.4	12043.3	20423.8	23069.5	23799.6
32.5°	1185.6	1135.7	1104.5	1229.3	1553.8	2982.8	5778.3	12236.8	21752.9	24598.4	25222.4
35°	911.1	886.1	923.5	1017.1	1335.4	2595.9	5341.5	12455.2	23281.7	26370.5	26495.3
37.5°	823.7	817.4	842.4	923.5	1123.2	2258.9	5029.5	12399.0	24448.6	27837.0	27500.0
40°	761.3	761.3	780.0	848.6	1004.7	2021.8	4705.0	12349.1	25578.1	29484.3	28498.4
42.5°	711.4	711.4	742.6	786.2	954.7	1865.8	4461.7	12280.5	26526.5	30495.2	29085.0
45°	642.7	661.4	711.4	755.0	967.2	1759.7	4280.7	12018.4	26851.0	30482.7	28804.2
47.5°	592.8	617.8	667.7	730.1	873.6	1728.5	4155.9	11787.5	26738.7	29733.9	27924.3
50°	536.6	567.8	636.5	742.6	742.6	1666.1	4024.8	11993.4	26657.6	29153.6	27081.9
52°	499.2	524.2	611.5	723.8	649.0	1535.1	3943.7	12392.8	26988.3	29078.7	26707.5
52.5°	493.0	511.7	592.8	711.4	617.8	1510.1	3887.6	12486.4	27094.4	28891.5	26963.3
55°	436.8	461.8	542.9	555.4	505.4	1241.8	3706.6	12698.5	26570.2	28523.4	26720.0
57.5°	411.8	424.3	480.5	455.5	436.8	936.0	3188.7	12367.8	23599.9	25334.7	24860.4
60°	380.6	393.1	449.3	355.7	368.2	655.2	2396.2	10739.2	18951.1	21110.2	21965.0
62.5°	368.2	361.9	424.3	287.0	312.0	474.2	1691.1	8729.9	14601.8	17378.6	18857.5
65°	324.5	318.2	305.8	243.4	268.3	368.2	1010.9	5697.2	10289.9	13147.8	13959.0
67.5°	249.6	262.1	224.6	193.4	224.6	287.0	561.6	2552.2	5397.7	7887.4	8542.7
70°	174.7	187.2	181.0	168.5	199.7	237.1	324.5	873.6	2233.9	4143.4	4567.7
72.5°	106.1	131.0	137.3	143.5	174.7	205.9	230.9	280.8	592.8	1466.4	1822.1
75°	62.4	87.4	106.1	124.8	143.5	174.7	193.4	199.7	205.9	274.6	443.0
77.5°	43.7	62.4	93.6	118.6	143.5	174.7	205.9	218.4	205.9	193.4	205.9
80°	37.4	62.4	87.4	112.3	149.8	181.0	205.9	205.9	199.7	174.7	187.2
82.5°	37.4	62.4	93.6	118.6	143.5	174.7	199.7	205.9	187.2	174.7	181.0
85°	43.7	68.6	99.8	124.8	156.0	143.5	131.0	106.1	99.8	81.1	87.4
87.5°	43.7	62.4	62.4	68.6	74.9	74.9	74.9	68.6	56.2	49.9	49.9
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: P533333

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6	15949.6
2.5°	17428.5	17927.7	17909.0	17921.5	17846.6	17341.2	17097.8	16480.0	16654.7	16579.9
5°	18096.2	18589.2	19013.5	18963.6	18389.5	17703.1	16685.9	15725.0	15462.9	15076.0
7.5°	17428.5	18614.1	19007.3	18951.1	18102.4	17222.6	15600.2	14639.2	14183.7	13927.8
10°	16367.7	17740.5	18227.2	18327.1	17753.0	16417.6	14926.2	13385.0	13141.6	12698.5
12.5°	15762.4	16760.8	17060.4	17328.7	17129.0	16130.6	14414.6	12935.7	12598.7	12305.4
15°	15269.5	15862.3	15987.1	16292.8	16411.4	15874.7	14682.9	13422.4	12592.5	12561.3
17.5°	15725.0	15481.6	15026.1	15119.7	15494.1	15881.0	15375.5	14383.4	13578.4	13478.6
20°	16480.0	15406.7	14377.1	14608.0	14920.0	16105.6	16423.9	15725.0	15263.2	15007.4
22.5°	17347.4	15537.8	14171.2	14283.5	14876.3	16611.1	18121.2	17734.3	16873.2	16505.0
25°	18951.1	15899.7	14333.4	14408.3	15219.5	17316.2	19656.2	19943.3	19431.6	19356.7
27.5°	20517.4	16835.7	14689.1	14520.6	15394.3	18002.6	20586.0	22127.3	21228.7	21054.0
30°	21316.1	17597.0	15219.5	14932.5	16118.1	18420.7	21147.6	23550.0	22763.8	22682.7
32.5°	22539.1	18289.6	15631.4	15263.2	16523.7	18938.6	22195.9	25103.8	24342.5	23936.9
35°	23050.8	19044.7	16536.2	16105.6	17684.4	19662.5	22732.6	26489.1	26252.0	25858.9
37.5°	24036.8	19855.9	17603.2	17578.3	19088.4	20604.7	23699.8	28373.6	28329.9	27649.8
40°	24117.9	20742.0	19288.1	20074.3	21259.9	22245.9	24548.4	28897.8	29609.1	29147.4
42.5°	24242.7	22295.8	22202.2	22851.1	23868.3	23656.1	24579.6	29022.6	30108.3	29833.8
45°	24298.8	23849.6	25166.2	26364.3	26788.6	25503.2	24286.4	28785.4	30370.4	29684.0
47.5°	23849.6	25184.9	27562.4	29877.5	30002.3	26638.9	24161.6	28542.1	30526.4	30070.9
50°	23912.0	26021.1	29634.1	31705.8	31250.3	27643.5	23968.1	28392.3	30445.3	30139.5
52°	23762.2	26039.8	29927.4	31668.4	31350.1	27088.1	23637.4	27818.2	30370.4	30588.8
52.5°	23930.7	25927.5	29621.6	31693.3	31281.5	27362.7	23593.7	28136.5	30414.1	29971.1
55°	23350.3	24592.1	27830.7	28710.6	28648.2	24835.5	22252.1	27081.9	29272.2	29278.4
57.5°	21103.9	21316.1	21827.8	21809.0	21522.0	19525.2	19032.2	24904.1	26096.0	25447.0
60°	18595.4	15606.4	14227.4	13665.8	13347.5	13023.0	16835.7	22782.5	22894.8	22620.3
62.5°	16068.2	10820.3	8985.7	8829.7	8904.6	10090.2	16274.1	21940.1	21266.2	20673.4
65°	12966.9	7887.4	6527.1	6321.2	7051.3	8330.5	13172.8	16823.2	15787.4	15294.4
67.5°	8143.3	5753.3	4411.7	4024.8	4904.7	5734.6	8655.0	10570.7	9410.0	8729.9
70°	4829.8	3213.6	1996.8	1790.9	2015.5	3057.6	4848.5	5272.9	4361.8	4012.4
72.5°	1903.2	1179.4	555.4	474.2	493.0	1073.3	1784.7	1741.0	1316.7	1173.1
75°	511.7	355.7	193.4	156.0	131.0	199.7	287.0	187.2	68.6	87.4
77.5°	237.1	212.2	168.5	131.0	99.8	74.9	37.4	12.5	12.5	6.2
80°	205.9	181.0	156.0	131.0	99.8	62.4	31.2	6.2	6.2	6.2
82.5°	193.4	168.5	143.5	118.6	93.6	62.4	31.2	6.2	0.0	0.0
85°	81.1	106.1	118.6	112.3	99.8	62.4	31.2	6.2	0.0	0.0
87.5°	43.7	37.4	31.2	25.0	18.7	12.5	12.5	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)