

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: P382640

Luminaire Tested: **GLEON-SA0B-735-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382640  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0B-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39059.8 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

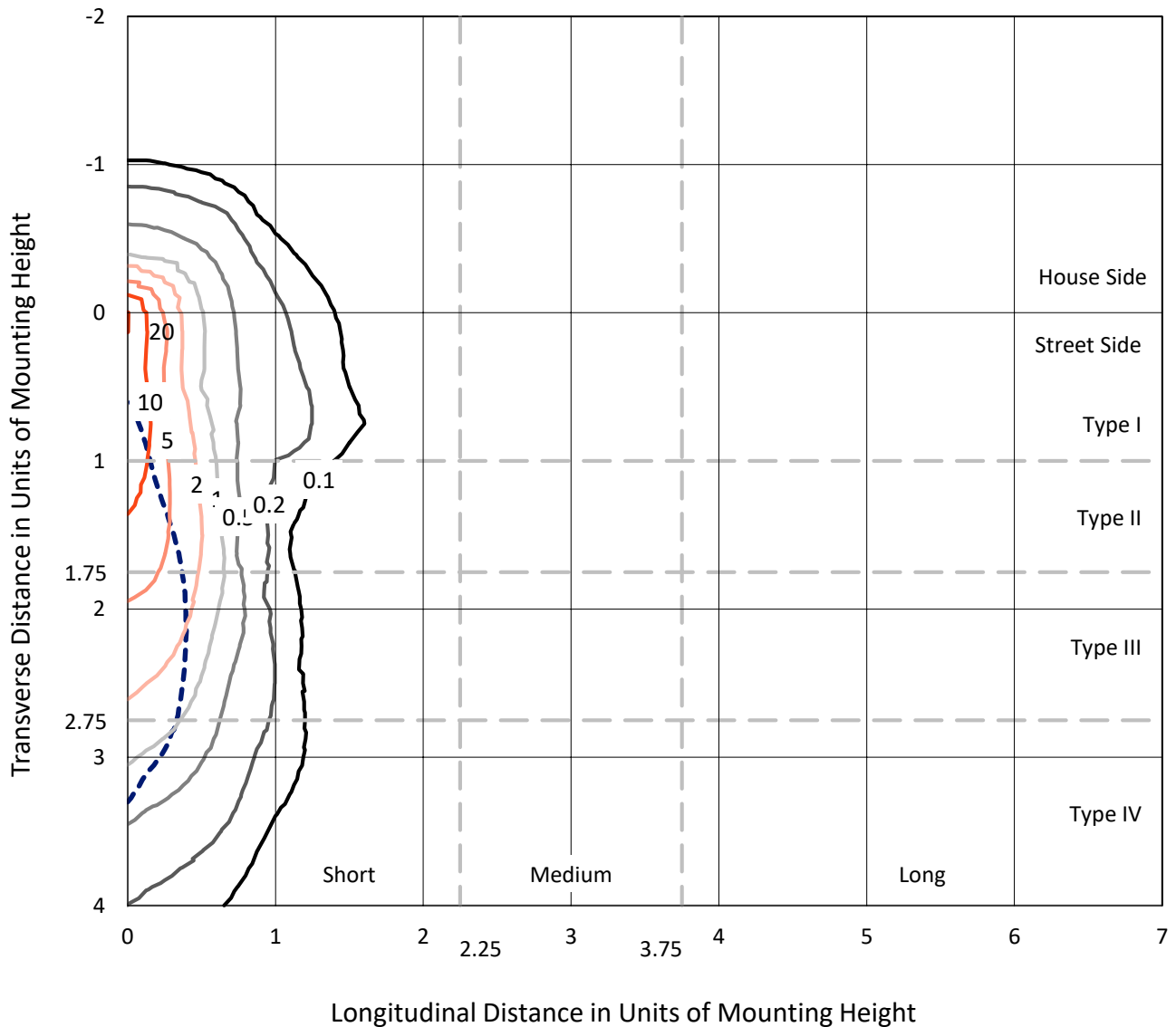
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

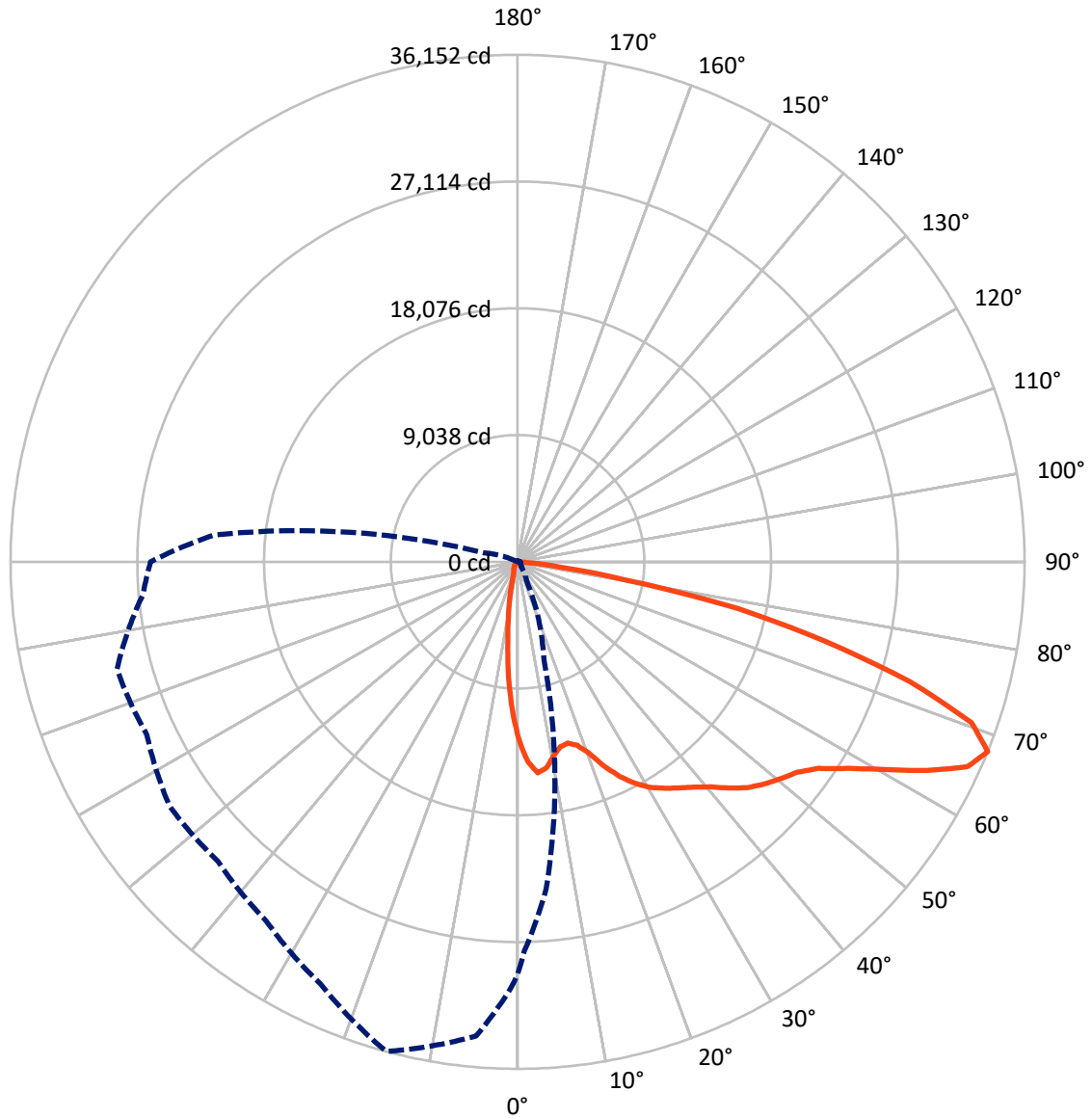
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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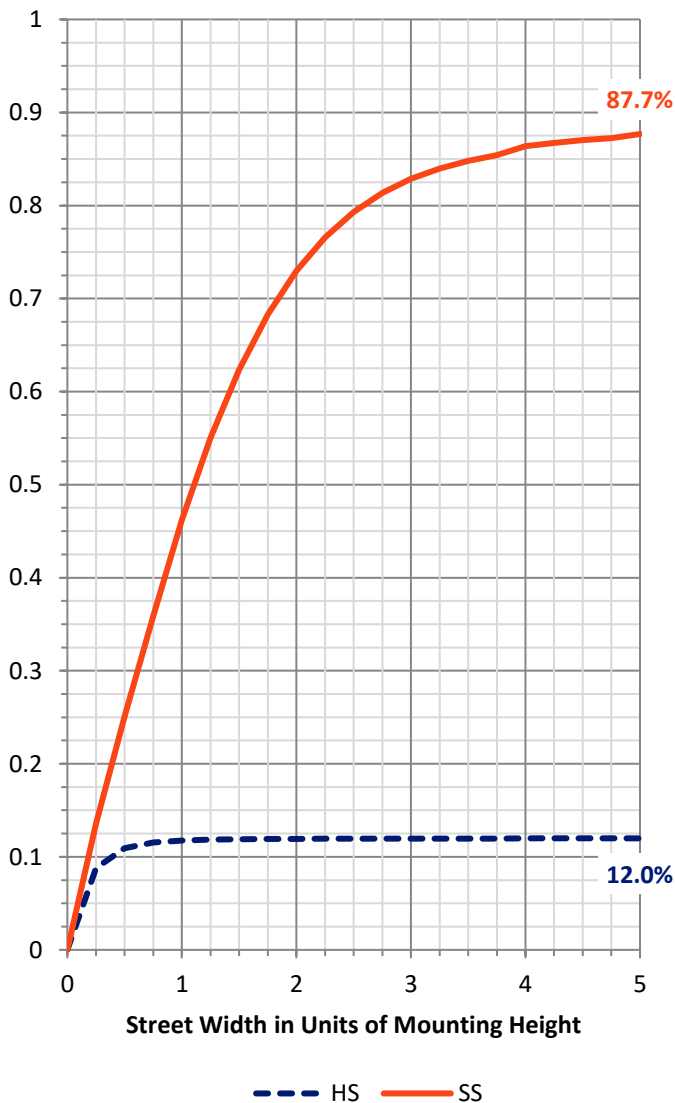
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4727.5	0.0	4727.5
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	34332.3	0.0	34332.3
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	39059.8	0.0	39059.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	976.5	2.5
10°-20°	1943.8	5.0
20°-30°	2760.1	7.1
30°-40°	4076.9	10.4
40°-50°	5879.8	15.1
50°-60°	8254.0	21.1
60°-70°	9621.7	24.6
70°-80°	4918.8	12.6
80°-90°	628.2	1.6
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°	39059.8	100.0
0°-180°	39059.8	100.0

**Coefficient of Utilization**

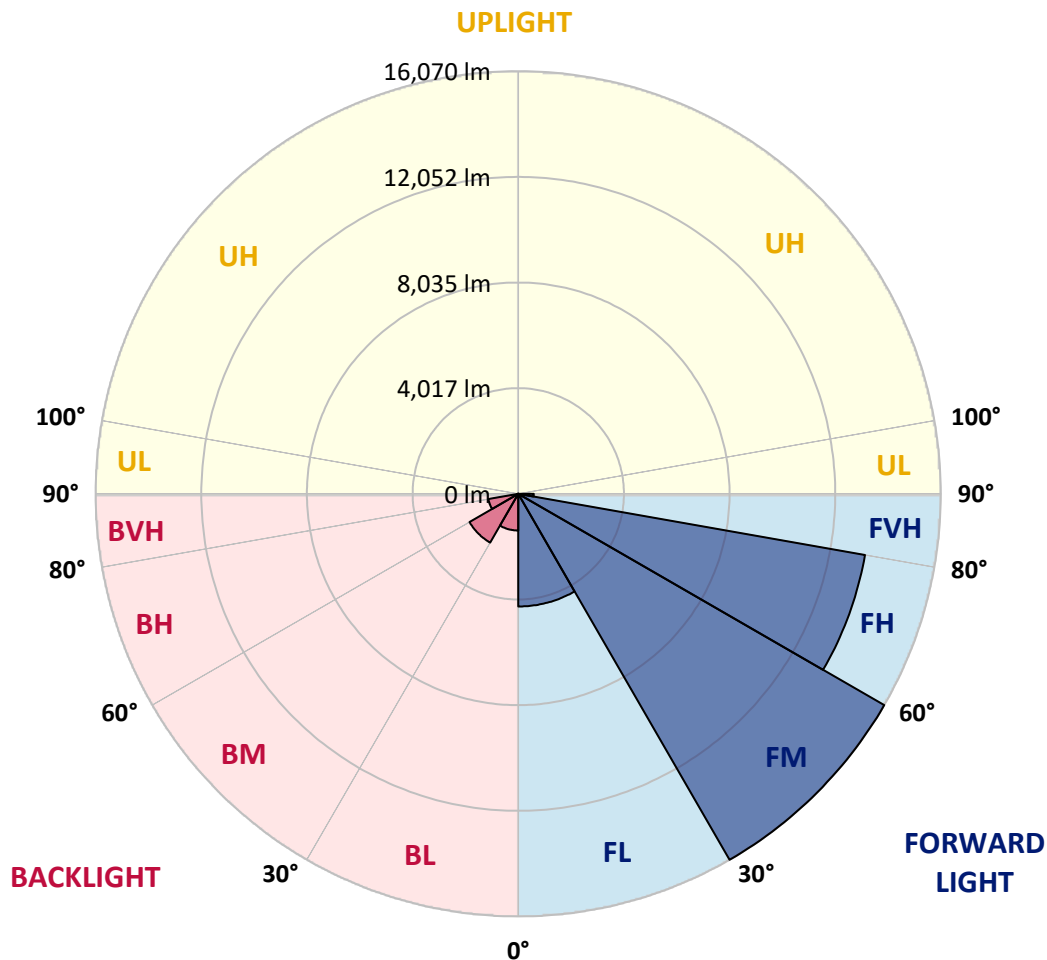


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4284.1	11.0			
FM (30°-60°)	16069.8	41.1			
FH (60°-80°)	13388.3	34.3			G5
FVH (80°-90°)	590.0	1.5			G4/750
BL (0°-30°)	1396.3	3.6	B3/2500		
BM (30°-60°)	2140.8	5.5	B2/2500		
BH (60°-80°)	1152.2	2.9	B3/2500		G3/2500
BVH (80°-90°)	38.2	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-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6
2.5°	13932.0	13824.6	13706.2	13319.5	12960.5	12549.7	12214.8	11981.7	11689.2	11309.9	11213.7
5°	13832.1	13717.3	13345.4	12485.0	11731.8	10999.1	10292.2	9877.7	9363.3	8841.4	8711.9
7.5°	12827.3	12707.0	12170.4	10991.6	9977.6	8919.1	8001.3	7433.2	6852.2	6374.8	6121.3
10°	11781.7	11650.4	11047.1	9616.7	8367.7	7411.0	6737.5	6195.3	5645.7	5135.0	4727.9
12.5°	11061.9	10889.9	10234.8	8613.8	7525.8	6876.2	6247.1	5597.6	4853.7	4306.0	3858.2
15°	10760.3	10564.2	9872.1	8227.1	7227.9	6465.4	5645.7	4848.1	3976.6	3349.3	2938.5
17.5°	10993.5	10738.1	9996.1	8201.2	6854.0	5815.9	4779.7	3843.4	2897.8	2263.1	1970.7
20°	11785.5	11450.6	10508.7	8193.8	6400.7	5044.3	3730.5	2672.1	1909.7	1535.8	1382.3
22.5°	13032.7	12590.4	11245.2	8253.0	5932.6	4233.8	2694.2	1815.3	1434.1	1239.8	1149.2
25°	14538.9	14026.4	12305.5	8462.1	5521.7	3445.5	1957.7	1434.1	1210.2	1067.7	991.8
27.5°	15971.2	15554.8	13645.2	8763.7	5203.4	2809.0	1589.5	1215.8	1034.4	940.0	878.9
30°	17401.6	16877.9	15020.1	9122.6	4820.4	2377.8	1397.0	1108.4	927.1	827.1	788.3
32.5°	18441.6	18006.6	16097.0	9381.7	4411.4	2096.5	1249.0	1014.1	866.0	764.2	706.9
35°	19664.7	19172.5	17020.4	9439.1	4148.7	1918.9	1123.3	912.3	751.3	660.7	599.5
37.5°	20985.9	20373.4	18086.3	9313.2	3943.3	1832.0	1028.8	866.0	701.4	608.8	544.0
40°	22447.8	21755.6	19109.6	9132.0	3741.6	1802.4	956.7	830.8	662.4	568.1	501.5
42.5°	23987.4	23171.2	19995.9	8941.4	3613.9	1700.5	949.2	795.7	632.9	531.1	464.5
45°	25280.8	24453.6	20906.4	8878.4	3523.2	1589.5	980.7	771.6	612.5	501.5	436.7
47.5°	26311.5	25528.7	21838.9	9019.1	3471.4	1487.8	893.7	803.1	601.4	475.6	412.7
50°	27542.0	26655.7	23152.8	9439.1	3395.6	1386.0	808.7	919.7	601.4	458.9	392.3
52.5°	29085.2	28208.2	24618.3	10090.4	3243.8	1245.4	727.3	921.5	606.9	436.7	366.4
55°	31026.4	30389.9	26711.2	10804.7	3001.4	1038.1	629.2	792.0	584.7	396.0	342.3
57.5°	32887.9	32367.9	28619.0	11293.2	2677.5	810.5	547.7	638.4	534.8	347.8	305.4
59°	33396.8	32828.8	29318.4	11315.5	2435.2	706.9	507.0	527.3	523.7	325.7	283.1
60°	33396.8	32793.5	29520.1	11197.0	2259.4	649.5	481.1	470.1	545.9	310.9	270.1
62.5°	32791.7	31944.3	28865.1	10395.8	1843.1	553.2	420.0	388.5	490.4	279.4	238.7
65°	31533.4	30299.1	26633.4	8946.9	1643.2	507.0	362.7	318.3	340.5	246.1	209.1
67.5°	29435.0	27762.3	23415.6	7227.9	1563.6	494.1	312.7	270.1	257.2	211.0	183.2
70°	25739.7	23883.7	19509.2	5682.7	1495.1	488.5	262.8	227.6	207.3	177.6	155.5
72.5°	18733.9	16798.3	13850.5	4442.9	1454.4	499.6	211.0	190.6	170.3	138.8	120.3
75°	10716.0	9448.4	7784.9	2934.8	1239.8	477.4	162.8	159.1	122.1	100.0	83.3
77.5°	5536.6	5368.1	4665.0	1126.9	594.0	209.1	107.3	92.5	72.2	61.1	49.9
80°	2389.0	2363.1	2044.7	325.7	157.2	116.5	61.1	38.8	33.3	25.9	20.4
82.5°	825.3	825.3	727.3	109.2	70.3	57.4	7.4	0.0	0.0	0.0	0.0
85°	166.6	186.9	131.3	0.0	24.0	0.0	0.0	0.0	0.0	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°	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6
2.5°	11097.2	10873.2	10858.4	10717.7	10542.0	10462.4	10416.2	10497.6	10597.5	10608.6	10758.4
5°	8613.8	8378.8	8476.9	8227.1	8277.1	8227.1	8145.6	8160.5	8204.9	8066.1	8238.1
7.5°	6049.1	5871.5	5984.4	5917.7	6006.5	6041.7	5991.7	5917.7	5699.4	5673.5	5823.4
10°	4559.5	4357.8	4237.5	4111.7	4139.4	4196.8	4178.3	4124.6	3985.8	3993.3	4137.6
12.5°	3663.9	3438.2	3199.4	2890.4	2814.5	2857.1	2814.5	2783.1	2649.9	2661.0	2788.6
15°	2779.4	2594.4	2344.5	2096.5	1961.5	1974.4	1856.0	1772.7	1689.5	1589.5	1667.3
17.5°	1876.3	1763.5	1689.5	1615.4	1454.4	1417.4	1267.6	1106.6	1043.6	997.4	1030.7
20°	1328.6	1267.6	1237.9	1234.2	1141.7	1095.5	949.2	849.4	817.9	808.7	829.0
22.5°	1110.3	1065.9	1023.3	999.3	953.0	899.3	788.3	738.3	716.1	705.0	719.8
25°	965.9	932.7	888.2	847.5	829.0	771.6	692.0	655.1	640.3	629.2	636.5
27.5°	858.6	829.0	777.2	751.3	736.5	686.6	618.1	588.5	575.5	571.8	569.9
30°	773.5	745.7	697.6	668.0	642.1	597.7	557.0	527.3	514.4	510.8	507.0
32.5°	688.3	666.1	634.7	605.1	577.4	536.7	501.5	477.4	457.0	453.4	451.5
35°	581.0	558.8	542.2	540.3	514.4	475.6	449.7	418.2	401.6	396.0	397.9
37.5°	516.3	486.6	449.7	462.6	455.2	427.5	392.3	360.9	344.2	340.5	340.5
40°	475.6	444.1	401.6	379.3	401.6	396.0	340.5	309.0	292.4	290.5	286.8
42.5°	436.7	405.2	357.2	320.2	331.3	347.8	294.2	264.7	248.0	244.3	238.7
45°	408.9	375.6	321.9	279.4	257.2	292.4	251.7	214.6	205.4	198.0	194.3
47.5°	383.1	351.6	290.5	242.4	205.4	211.0	201.7	175.8	164.7	157.2	155.5
50°	360.9	327.5	262.8	207.3	170.3	155.5	162.8	138.8	129.5	122.1	118.4
52.5°	334.9	303.5	233.2	179.5	142.5	122.1	124.0	109.2	100.0	94.4	92.5
55°	314.6	283.1	209.1	157.2	125.9	100.0	88.8	85.1	79.6	75.8	74.1
57.5°	286.8	257.2	185.0	133.2	107.3	81.4	68.5	68.5	66.6	62.9	61.1
59°	270.1	244.3	170.3	120.3	98.1	70.3	61.1	62.9	61.1	57.4	55.5
60°	257.2	233.2	159.1	111.0	92.5	64.7	55.5	59.2	57.4	53.7	51.8
62.5°	227.6	211.0	136.9	92.5	81.4	51.8	46.3	49.9	49.9	48.1	46.3
65°	199.8	181.4	116.5	77.7	75.8	44.4	37.0	44.4	46.3	42.6	38.8
67.5°	173.9	155.5	101.8	62.9	70.3	35.1	27.8	37.0	49.9	38.8	35.1
70°	148.0	129.5	79.6	49.9	74.1	24.0	22.2	33.3	59.2	42.6	33.3
72.5°	114.8	100.0	55.5	37.0	79.6	16.7	16.7	27.8	66.6	46.3	31.5
75°	79.6	64.7	33.3	22.2	64.7	11.1	11.1	25.9	62.9	42.6	29.6
77.5°	46.3	35.1	11.1	1.9	33.3	0.0	1.9	18.5	44.4	25.9	12.9
80°	16.7	7.4	0.0	0.0	20.4	0.0	0.0	0.0	3.7	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6
2.5°	10797.4	11047.1	11271.1	11609.7	12011.2	12473.9	12871.7	13299.1	13700.6	13867.2	13982.0
5°	8273.4	8582.3	8943.2	9441.0	10103.4	10919.5	11683.7	12547.9	13476.8	13941.3	14378.0
7.5°	5849.3	6163.9	6611.7	7140.9	7942.1	8913.6	9912.8	11106.4	12364.7	13099.3	13822.9
10°	4206.0	4592.8	5011.0	5734.5	6548.7	7470.3	8499.1	9831.4	11234.1	12048.3	12919.8
12.5°	2862.6	3303.1	3935.9	4746.4	5703.0	6606.1	7499.9	8771.1	10399.5	11206.3	12140.8
15°	1717.2	1961.5	2631.3	3569.5	4742.7	5867.7	6846.7	8121.6	9857.4	10845.4	11817.0
17.5°	1058.4	1171.3	1535.8	2305.7	3538.0	4961.0	6302.6	7901.4	9935.0	11137.9	12177.7
20°	843.8	888.2	1004.8	1361.9	2344.5	3961.8	5690.1	7857.0	10569.7	12050.1	13165.9
22.5°	732.8	775.3	853.0	990.0	1474.8	2966.2	5109.1	7897.7	11480.1	13417.5	14720.3
25°	645.8	682.8	756.8	869.7	1080.7	2089.2	4487.4	8079.0	12666.3	15114.5	16498.5
27.5°	577.4	608.8	677.2	780.9	927.1	1458.2	3782.3	8299.3	14072.6	16850.1	18215.8
30°	514.4	542.2	603.3	699.5	805.0	1121.4	3008.8	8449.1	15480.8	18215.8	19442.6
32.5°	460.7	481.1	536.7	618.1	699.5	893.7	2287.1	8425.1	16526.3	19352.0	20325.3
35°	405.2	425.6	473.7	544.0	608.8	738.3	1798.6	7975.4	17436.7	20530.7	21335.6
37.5°	344.2	370.1	416.3	479.3	523.7	649.5	1454.4	7433.2	18360.2	21877.8	22462.5
40°	292.4	318.3	359.0	427.5	455.2	616.2	1117.7	6772.6	19398.2	23384.1	23698.7
42.5°	242.4	266.4	309.0	368.2	429.3	531.1	827.1	6017.6	20395.6	24671.9	24825.6
45°	196.2	220.2	264.7	323.8	458.9	440.4	640.3	5209.0	21200.5	25743.4	25793.3
47.5°	155.5	177.6	223.9	305.4	427.5	351.6	457.0	4574.3	21876.0	26579.8	26448.4
50°	120.3	138.8	186.9	349.7	373.8	290.5	346.1	4363.4	22481.0	27097.9	26757.4
52.5°	94.4	111.0	153.6	327.5	290.5	240.5	290.5	4561.3	23310.0	27527.2	26931.3
55°	75.8	92.5	120.3	186.9	198.0	203.5	248.0	4746.4	24740.4	28533.9	27958.4
57.5°	62.9	79.6	98.1	131.3	149.9	172.1	220.2	4766.7	26426.2	30206.6	29662.6
59°	57.4	72.2	88.8	116.5	131.3	157.2	207.3	4655.7	27020.2	30815.4	30543.4
60°	53.7	68.5	83.3	107.3	122.1	148.0	199.8	4550.2	27046.1	30793.2	30919.1
62.5°	46.3	61.1	74.1	90.6	103.6	125.9	179.5	4159.8	25950.6	29784.7	30693.3
65°	40.7	53.7	66.6	77.7	88.8	112.9	162.8	3447.4	24079.9	28158.2	29148.2
67.5°	37.0	46.3	61.1	68.5	79.6	100.0	144.3	2457.4	21742.7	26168.9	26811.1
70°	33.3	44.4	55.5	62.9	72.2	87.0	124.0	1411.9	18360.2	23256.4	23713.5
72.5°	31.5	42.6	49.9	59.2	64.7	77.7	112.9	664.3	13443.4	18630.3	19823.8
75°	27.8	38.8	46.3	55.5	61.1	70.3	96.2	318.3	8941.4	13482.4	14838.7
77.5°	16.7	31.5	42.6	49.9	53.7	61.1	79.6	183.2	5706.8	9331.8	10991.6
80°	0.0	11.1	31.5	42.6	46.3	51.8	61.1	144.3	3053.2	5331.2	6398.8
82.5°	0.0	0.0	22.2	33.3	31.5	35.1	46.3	90.6	1376.7	3484.4	3926.7
85°	0.0	0.0	7.4	25.9	22.2	16.7	31.5	31.5	301.6	1763.5	2200.2
87.5°	0.0	0.0	0.0	1.9	11.1	7.4	12.9	3.7	1.9	131.3	532.9
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: P382640

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6	12723.6
2.5°	14383.5	14520.4	14751.7	14860.9	14807.2	14579.7	14307.6	14030.0	13867.2	13932.0
5°	15268.0	15973.1	16380.1	16515.2	16289.4	15778.7	15110.7	14229.9	13917.2	13832.1
7.5°	15268.0	16594.8	17434.8	17583.0	17079.6	16078.5	14825.8	13450.9	12993.8	12827.3
10°	14731.4	16537.4	17708.7	17943.7	17240.6	15743.6	14065.3	12496.1	11953.9	11781.7
12.5°	14126.3	16071.2	17305.4	17629.2	17051.9	15410.5	13537.8	11850.2	11211.8	11061.9
15°	13754.4	15497.5	16518.9	16753.9	16509.6	15216.2	13412.0	11656.0	10904.7	10760.3
17.5°	13887.6	15053.3	15421.6	15558.5	15723.2	15147.7	13754.4	12081.5	11130.4	10993.5
20°	14389.1	14585.2	14394.6	14566.7	15010.8	15214.3	14570.4	13110.4	11968.7	11785.5
22.5°	15240.3	14342.8	13808.1	13876.5	14416.8	15434.5	15817.6	14579.7	13262.2	13032.7
25°	16232.1	14538.9	13482.4	13421.3	13976.4	15725.1	16957.4	16178.5	14792.4	14538.9
27.5°	17479.3	14979.4	13415.7	13354.7	13822.9	15997.1	17904.9	17758.7	16404.2	15971.2
30°	18441.6	15412.4	13613.7	13473.1	13976.4	16185.8	18665.4	19100.3	17688.4	17401.6
32.5°	19131.8	15923.0	13935.7	13732.1	14409.4	16511.5	19252.0	20329.0	18876.4	18441.6
35°	19657.2	16478.2	14455.7	14120.8	15005.3	17005.6	19801.6	21637.2	20140.2	19664.7
37.5°	20149.5	17257.2	15268.0	14868.3	15939.7	17801.3	20382.6	23121.3	21554.0	20985.9
40°	20836.0	18139.9	16520.8	16165.5	17510.8	18885.6	21108.0	24668.3	23162.0	22447.8
42.5°	21522.5	19087.3	17803.1	17899.3	19470.4	20203.1	22044.3	26304.1	24749.7	23987.4
45°	22149.8	20064.3	19629.5	20073.6	21289.4	21648.3	22975.1	27249.6	26017.3	25280.8
47.5°	22708.6	21285.7	21444.8	22627.2	23358.2	22956.6	23670.9	28065.7	26960.9	26311.5
50°	23358.2	22866.0	23837.5	25510.2	25739.7	24140.9	24303.7	29031.6	28063.8	27542.0
52.5°	24068.8	24531.4	26487.3	27962.1	27888.0	25427.0	24940.3	30114.1	29575.6	29085.2
55°	24875.5	25876.6	28820.7	30256.6	30193.7	26862.9	25995.0	31452.0	31470.5	31026.4
57.5°	26072.7	27035.0	30404.7	32112.6	32218.0	28520.9	27782.6	32950.9	33184.1	32887.9
59°	26931.3	27786.3	31032.0	32887.9	33317.3	29803.3	29089.0	33820.6	33667.0	33396.8
60°	27567.9	28263.7	31342.9	33293.2	33955.7	30673.0	30053.0	34331.3	33724.4	33396.8
62.5°	29142.6	29303.6	31903.5	33752.1	34690.3	32604.8	32765.8	35201.0	33326.5	32791.7
65°	29877.2	29960.5	31896.1	32930.5	33979.7	34109.3	35226.9	35226.9	32355.0	31533.4
67.5°	29570.1	29168.5	30314.0	30206.6	31254.0	33215.4	36152.2	33935.3	30497.2	29435.0
70°	27072.0	25526.9	25018.0	25064.3	25865.5	28891.0	34320.2	30134.4	26981.3	25739.7
72.5°	22525.5	18819.0	17562.6	18996.7	19205.7	22203.4	29248.1	22693.8	19897.9	18733.9
75°	18117.7	13265.8	11222.9	12736.6	13091.9	16248.7	22625.3	14133.7	11622.6	10716.0
77.5°	13016.0	9522.4	8053.1	7947.7	8406.6	10305.2	16054.5	7113.1	5932.6	5536.6
80°	7394.3	6267.5	6748.6	6367.4	6598.7	6443.2	7627.5	3119.8	2555.4	2389.0
82.5°	4463.2	3704.6	4011.8	3340.1	4226.4	3680.5	2938.5	999.3	867.8	825.3
85°	2903.4	2024.3	1054.8	706.9	1456.3	2351.9	656.9	272.0	209.1	166.6
87.5°	1001.1	516.3	51.8	22.2	155.5	438.6	24.0	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)