

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: STREETWORKS

Report Number: P654598

Luminaire Tested: **GLAN-SA9B-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P654598  
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: STREETWORKS  
Catalog Number: GLAN-SA9B-840-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 800mA 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: 23983.6 lumens  
Efficiency: N/A  
Efficacy: 65.9 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): 364  
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

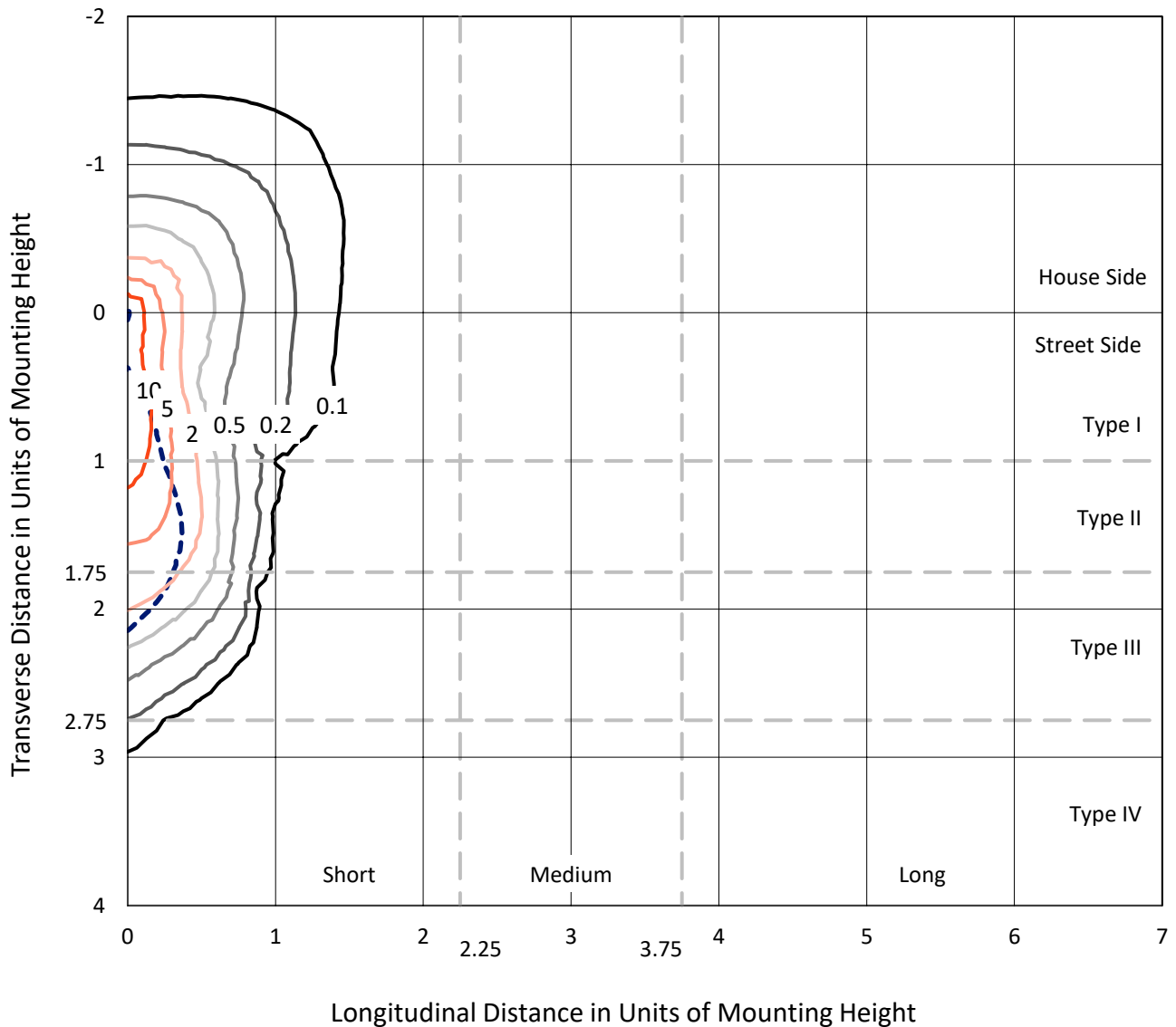




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### Iso-Footcandle Lines of Horizontal Illumination

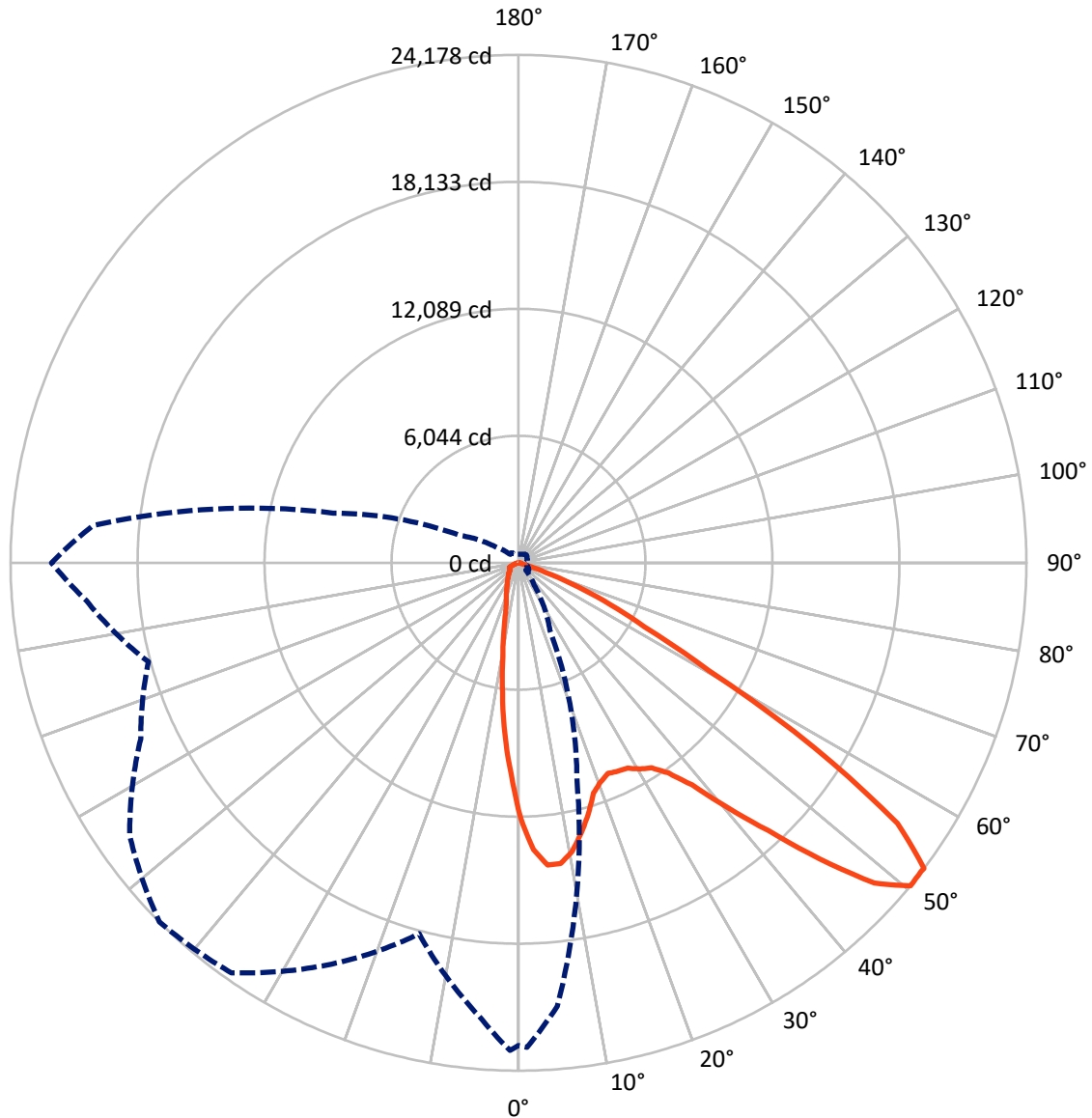
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 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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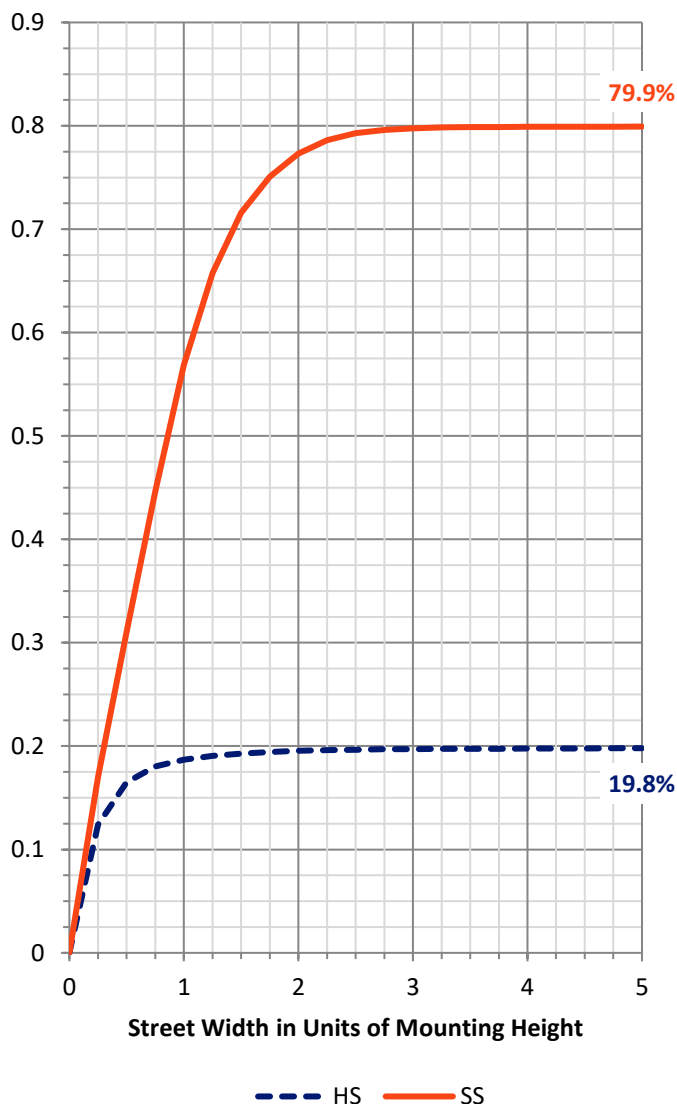
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4803.9	0.0	4803.9
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	19179.7	0.0	19179.7
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	23983.6	0.0	23983.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	886.5	3.7
10°-20°	1761.9	7.3
20°-30°	2647.0	11.0
30°-40°	3973.1	16.6
40°-50°	5583.8	23.3
50°-60°	6023.1	25.1
60°-70°	2796.5	11.7
70°-80°	263.1	1.1
80°-90°	48.5	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°	23983.6	100.0
0°-180°	23983.6	100.0

**Coefficient of Utilization**



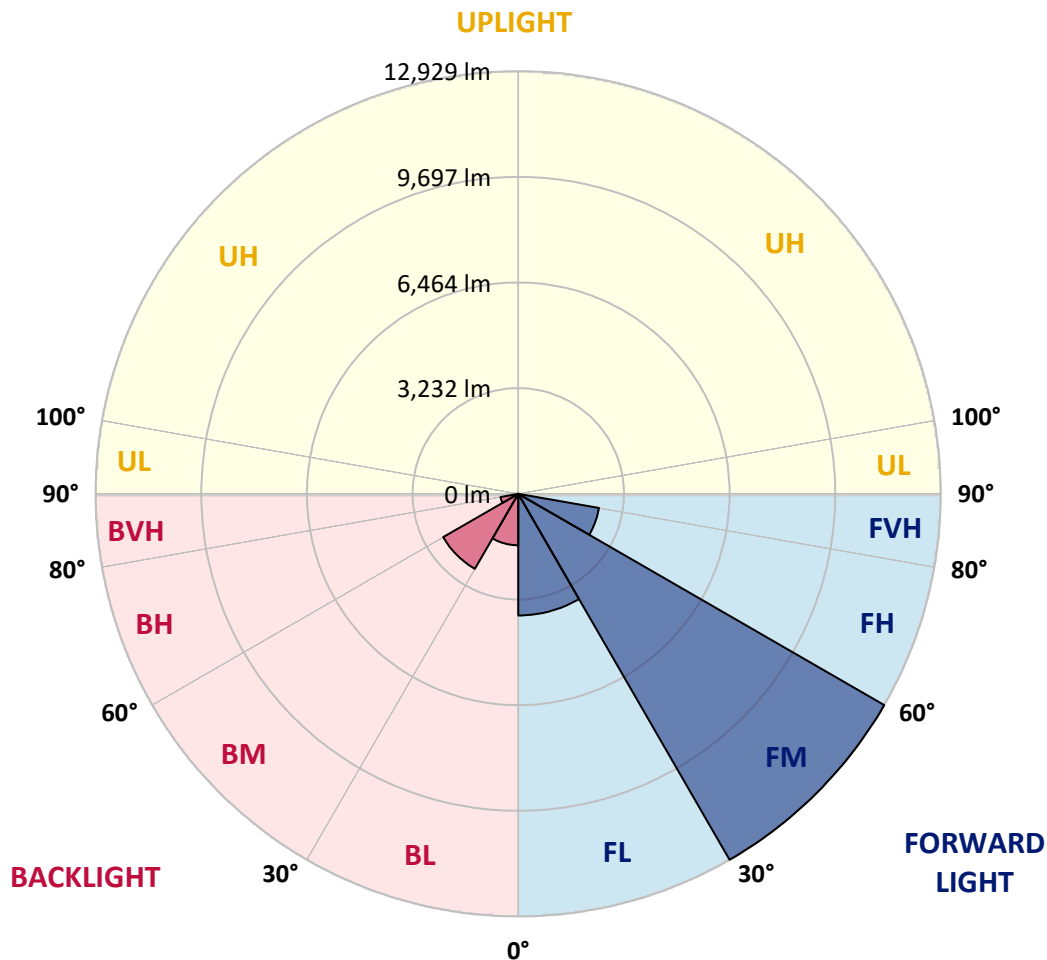
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3720.9	15.5			
FM (30°-60°)	12929.0	53.9			
FH (60°-80°)	2508.0	10.5			G2/5000
FVH (80°-90°)	21.8	0.1			G1/100
BL (0°-30°)	1574.6	6.6	B3/2500		
BM (30°-60°)	2651.0	11.1	B3/5000		
BH (60°-80°)	551.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	26.6	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°	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7
2.5°	12643.3	12448.2	12200.8	11996.2	11691.7	11077.8	10911.2	10711.4	10544.9	10321.2	10007.1
5°	11496.6	11434.7	11320.4	10549.6	9992.8	9250.5	8641.4	8384.5	8046.6	7770.7	7570.8
7.5°	10621.0	10373.6	10011.9	9236.3	8346.4	7551.8	6876.0	6481.1	6033.8	5881.5	5610.3
10°	9683.5	9740.6	9207.7	8118.0	7042.6	6400.2	5981.4	5600.7	5196.3	4929.8	4544.3
12.5°	9383.8	9198.2	8789.0	7442.3	6523.9	5924.3	5415.2	4944.1	4515.8	4087.5	3716.4
15°	9578.8	9293.4	8722.3	7299.5	6124.2	5377.1	4739.5	4101.8	3706.9	3159.6	2774.2
17.5°	10278.4	10049.9	9283.8	7451.8	5919.5	4853.7	3906.7	3250.0	2645.7	2150.9	1955.7
20°	11444.2	11120.6	10159.4	7646.9	5615.0	4220.8	3169.1	2360.2	1789.2	1579.8	1470.4
22.5°	12586.2	12410.1	11196.7	8022.8	5343.8	3659.3	2379.3	1589.3	1337.1	1299.1	1227.7
25°	14760.9	14232.7	12781.3	8703.3	5134.4	3131.1	1793.9	1280.0	1132.5	1104.0	1113.5
27.5°	16055.2	15612.7	14247.0	9155.4	4901.3	2726.6	1517.9	1175.4	1075.4	1013.6	989.8
30°	17297.2	16783.2	14975.0	9421.8	4401.6	2298.4	1346.7	1127.8	1104.0	1013.6	985.0
32.5°	18253.6	17749.2	16026.6	9821.5	4197.0	2022.4	1108.7	880.4	818.5	809.0	894.6
35°	19719.3	19181.5	16926.0	10040.4	4040.0	1879.6	961.2	785.2	713.8	685.2	690.0
37.5°	21084.9	20718.5	17758.7	10126.1	3873.4	1836.7	861.3	704.3	642.4	623.3	618.6
40°	22227.0	21408.5	18548.7	10216.5	3802.1	1755.9	799.5	642.4	599.5	571.0	571.0
42.5°	22750.4	21917.6	19433.7	10164.2	3783.0	1627.4	799.5	590.0	556.7	528.2	523.4
45°	22636.2	22298.4	19828.7	10140.4	3783.0	1498.9	728.1	575.7	528.2	490.1	480.6
47.5°	22931.2	22488.7	20323.5	10240.3	3706.9	1408.5	613.8	604.3	499.6	452.0	442.5
50°	22983.5	23069.2	21184.9	10759.0	3540.4	1294.3	480.6	594.8	480.6	409.2	399.7
52°	23326.1	22793.2	21446.6	11034.9	3364.3	1208.7	404.4	509.1	461.5	380.7	371.1
52.5°	22855.1	23202.4	21508.4	11134.9	3383.3	1151.6	390.2	499.6	452.0	380.7	356.9
55°	22326.9	22660.0	21256.2	11349.0	3102.5	904.1	304.5	361.6	409.2	333.1	318.8
57.5°	19405.1	19743.0	18472.5	10392.6	2526.8	637.6	252.2	271.2	361.6	309.3	295.0
60°	17249.6	17006.9	15503.2	8670.0	1793.9	356.9	199.8	209.4	394.9	285.5	280.7
62.5°	15764.9	15246.2	12957.4	6695.2	1094.5	237.9	157.0	161.8	304.5	266.5	266.5
65°	11663.1	11082.5	8608.1	4049.5	537.7	166.5	119.0	128.5	190.3	228.4	228.4
67.5°	6657.1	6433.5	4158.9	1827.2	223.6	104.7	90.4	99.9	147.5	185.6	176.1
70°	3059.7	2745.7	1598.8	385.4	104.7	71.4	71.4	80.9	119.0	138.0	128.5
72.5°	894.6	847.0	390.2	61.9	42.8	42.8	47.6	61.9	90.4	104.7	95.2
75°	66.6	42.8	28.5	19.0	19.0	28.5	38.1	61.9	90.4	99.9	80.9
77.5°	4.8	9.5	4.8	4.8	14.3	28.5	42.8	76.1	119.0	123.7	90.4
80°	4.8	4.8	0.0	4.8	14.3	28.5	47.6	85.6	133.2	142.7	76.1
82.5°	0.0	0.0	0.0	4.8	19.0	38.1	57.1	90.4	123.7	152.3	80.9
85°	0.0	0.0	0.0	4.8	28.5	52.3	66.6	23.8	14.3	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°	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7
2.5°	10230.8	10107.1	10059.5	10102.3	10088.0	10073.8	10335.5	10278.4	10268.9	10354.5	10335.5
5°	7680.2	7461.4	8060.9	7818.2	8070.4	8222.7	8251.2	8265.5	8441.6	8256.0	8498.6
7.5°	5472.3	5529.4	5524.6	5686.4	5976.7	6233.7	6385.9	6267.0	6257.5	6233.7	6129.0
10°	4373.0	4273.1	4254.1	4216.0	4306.4	4525.3	4710.9	4563.4	4458.7	4601.4	4558.6
12.5°	3573.7	3435.7	3359.5	3207.2	3211.9	3359.5	3359.5	3359.5	3464.2	3545.1	3607.0
15°	2740.9	2626.7	2626.7	2474.4	2441.1	2445.9	2522.0	2531.5	2698.1	2745.7	2769.4
17.5°	1917.6	1855.8	1927.2	1989.0	1951.0	1960.5	1989.0	1998.6	2022.4	2003.3	2050.9
20°	1475.1	1465.6	1484.6	1594.1	1675.0	1722.5	1689.2	1641.7	1613.1	1546.5	1546.5
22.5°	1251.5	1270.5	1303.8	1394.2	1498.9	1527.5	1489.4	1380.0	1294.3	1284.8	1289.6
25°	1113.5	1132.5	1184.9	1242.0	1299.1	1346.7	1308.6	1227.7	1180.1	1137.3	1137.3
27.5°	1027.9	1037.4	1065.9	1108.7	1156.3	1194.4	1180.1	1137.3	1085.0	1065.9	1023.1
30°	961.2	975.5	1008.8	1018.3	1061.2	1080.2	1056.4	1046.9	1013.6	989.8	975.5
32.5°	927.9	923.2	947.0	956.5	961.2	975.5	947.0	961.2	956.5	918.4	904.1
35°	699.5	737.6	799.5	851.8	866.1	885.1	880.4	861.3	809.0	766.2	713.8
37.5°	628.1	651.9	685.2	728.1	785.2	809.0	799.5	751.9	690.0	661.4	651.9
40°	580.5	594.8	623.3	651.9	709.0	751.9	718.6	675.7	628.1	604.3	590.0
42.5°	537.7	542.4	556.7	585.3	628.1	694.8	637.6	580.5	561.5	547.2	537.7
45°	490.1	490.1	509.1	523.4	571.0	632.9	575.7	523.4	513.9	504.4	499.6
47.5°	452.0	456.8	466.3	485.3	523.4	566.2	528.2	485.3	461.5	456.8	447.3
50°	404.4	409.2	428.2	447.3	494.8	518.6	494.8	447.3	423.5	409.2	409.2
52°	366.4	380.7	399.7	437.7	471.1	509.1	480.6	428.2	399.7	385.4	375.9
52.5°	361.6	371.1	390.2	433.0	471.1	504.4	475.8	423.5	390.2	380.7	371.1
55°	323.6	337.8	371.1	423.5	466.3	504.4	466.3	418.7	371.1	347.3	337.8
57.5°	309.3	318.8	361.6	428.2	461.5	504.4	466.3	418.7	371.1	328.3	318.8
60°	295.0	314.0	361.6	414.0	456.8	509.1	471.1	414.0	361.6	309.3	309.3
62.5°	280.7	295.0	356.9	404.4	437.7	490.1	452.0	404.4	347.3	295.0	290.2
65°	242.7	266.5	314.0	337.8	375.9	423.5	385.4	352.1	304.5	261.7	256.9
67.5°	185.6	195.1	233.1	261.7	285.5	328.3	309.3	266.5	233.1	199.8	199.8
70°	128.5	138.0	166.5	180.8	204.6	228.4	214.1	180.8	157.0	138.0	133.2
72.5°	90.4	95.2	104.7	114.2	123.7	133.2	128.5	104.7	90.4	85.6	80.9
75°	71.4	80.9	85.6	80.9	76.1	71.4	71.4	61.9	52.3	47.6	47.6
77.5°	71.4	76.1	71.4	61.9	52.3	47.6	42.8	38.1	28.5	23.8	28.5
80°	61.9	61.9	61.9	52.3	47.6	42.8	38.1	33.3	28.5	23.8	23.8
82.5°	66.6	66.6	61.9	52.3	52.3	42.8	42.8	38.1	33.3	23.8	23.8
85°	0.0	0.0	0.0	9.5	23.8	42.8	42.8	38.1	33.3	28.5	28.5
87.5°	0.0	0.0	0.0	0.0	4.8	9.5	19.0	23.8	28.5	28.5	28.5
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°	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7
2.5°	10506.8	10687.6	11030.2	11372.8	11582.2	11829.7	12276.9	12514.8	12824.2	12976.5	13276.2
5°	8465.3	8893.7	9045.9	9436.1	9854.8	10273.6	10939.8	11672.6	12281.7	12700.4	13242.9
7.5°	6176.6	6276.5	6866.5	7128.2	7813.5	8574.8	9483.7	10406.9	11177.7	11863.0	12276.9
10°	4630.0	4996.5	5367.6	5867.2	6419.2	7204.3	8075.2	9093.5	10092.8	10778.0	11301.4
12.5°	3721.2	4011.4	4506.3	5044.0	5724.4	6243.2	7118.7	8127.5	9421.8	10092.8	10782.8
15°	2817.0	3188.2	3749.7	4306.4	5025.0	5572.2	6457.3	7727.8	9393.3	10316.5	10911.2
17.5°	2089.0	2341.2	2845.6	3469.0	4201.7	4972.7	6167.1	7685.0	9712.1	10811.3	11425.2
20°	1598.8	1684.5	2003.3	2560.1	3354.7	4363.5	5695.9	7870.6	10654.3	12015.2	12638.5
22.5°	1294.3	1332.4	1456.1	1841.5	2612.4	3830.6	5472.3	7999.0	11715.5	13457.0	14289.8
25°	1127.8	1118.3	1199.2	1365.7	2041.4	3330.9	5186.8	8484.4	13014.5	15151.0	15898.2
27.5°	1027.9	1027.9	1065.9	1184.9	1694.0	3007.3	5006.0	8831.8	14323.1	16640.4	17045.0
30°	975.5	985.0	1094.5	1132.5	1408.5	2621.9	4706.2	9183.9	15574.6	17592.2	18148.9
32.5°	904.1	866.1	842.3	937.5	1184.9	2274.6	4406.3	9331.4	16588.1	18758.0	19233.8
35°	694.8	675.7	704.3	775.7	1018.3	1979.5	4073.3	9498.0	17753.9	20109.4	20204.6
37.5°	628.1	623.3	642.4	704.3	856.6	1722.5	3835.4	9455.1	18643.8	21227.7	20970.7
40°	580.5	580.5	594.8	647.1	766.2	1541.7	3587.9	9417.1	19505.1	22483.9	21732.1
42.5°	542.4	542.4	566.2	599.5	728.1	1422.8	3402.3	9364.7	20228.4	23254.8	22179.4
45°	490.1	504.4	542.4	575.7	737.6	1341.9	3264.3	9164.9	20475.8	23245.2	21965.2
47.5°	452.0	471.1	509.1	556.7	666.2	1318.1	3169.1	8988.8	20390.2	22674.3	21294.3
50°	409.2	433.0	485.3	566.2	566.2	1270.5	3069.2	9145.9	20328.3	22231.8	20651.9
52°	380.7	399.7	466.3	551.9	494.8	1170.6	3007.3	9450.4	20580.5	22174.6	20366.4
52.5°	375.9	390.2	452.0	542.4	471.1	1151.6	2964.5	9521.7	20661.4	22031.8	20561.4
55°	333.1	352.1	414.0	423.5	385.4	947.0	2826.5	9683.5	20261.7	21751.1	20375.9
57.5°	314.0	323.6	366.4	347.3	333.1	713.8	2431.6	9431.3	17996.6	19319.5	18957.9
60°	290.2	299.8	342.6	271.2	280.7	499.6	1827.2	8189.4	14451.6	16098.0	16749.9
62.5°	280.7	276.0	323.6	218.9	237.9	361.6	1289.6	6657.1	11134.9	13252.4	14380.2
65°	247.4	242.7	233.1	185.6	204.6	280.7	770.9	4344.5	7846.8	10026.1	10644.8
67.5°	190.3	199.8	171.3	147.5	171.3	218.9	428.2	1946.2	4116.1	6014.7	6514.4
70°	133.2	142.7	138.0	128.5	152.3	180.8	247.4	666.2	1703.5	3159.6	3483.3
72.5°	80.9	99.9	104.7	109.4	133.2	157.0	176.1	214.1	452.0	1118.3	1389.5
75°	47.6	66.6	80.9	95.2	109.4	133.2	147.5	152.3	157.0	209.4	337.8
77.5°	33.3	47.6	71.4	90.4	109.4	133.2	157.0	166.5	157.0	147.5	157.0
80°	28.5	47.6	66.6	85.6	114.2	138.0	157.0	157.0	152.3	133.2	142.7
82.5°	28.5	47.6	71.4	90.4	109.4	133.2	152.3	157.0	142.7	133.2	138.0
85°	33.3	52.3	76.1	95.2	119.0	109.4	99.9	80.9	76.1	61.9	66.6
87.5°	33.3	47.6	47.6	52.3	57.1	57.1	57.1	52.3	42.8	38.1	38.1
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: P654598

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7	12162.7
2.5°	13290.5	13671.2	13656.9	13666.4	13609.3	13223.9	13038.3	12567.2	12700.4	12643.3
5°	13799.6	14175.6	14499.2	14461.1	14023.3	13499.9	12724.2	11991.4	11791.6	11496.6
7.5°	13290.5	14194.6	14494.4	14451.6	13804.4	13133.5	11896.3	11163.4	10816.1	10621.0
10°	12481.5	13528.4	13899.5	13975.7	13537.9	12519.6	11382.3	10207.0	10021.4	9683.5
12.5°	12020.0	12781.3	13009.8	13214.4	13062.1	12300.7	10992.1	9864.3	9607.4	9383.8
15°	11644.1	12096.1	12191.3	12424.4	12514.8	12105.6	11196.7	10235.6	9602.6	9578.8
17.5°	11991.4	11805.9	11458.5	11529.9	11815.4	12110.4	11725.0	10968.3	10354.5	10278.4
20°	12567.2	11748.8	10963.6	11139.6	11377.6	12281.7	12524.3	11991.4	11639.3	11444.2
22.5°	13228.6	11848.7	10806.5	10892.2	11344.2	12667.1	13818.7	13523.7	12867.0	12586.2
25°	14451.6	12124.7	10930.3	10987.4	11606.0	13204.9	14989.3	15208.1	14818.0	14760.9
27.5°	15646.0	12838.5	11201.5	11073.0	11739.2	13728.3	15698.3	16873.7	16188.4	16055.2
30°	16255.0	13419.0	11606.0	11387.1	12291.2	14047.1	16126.6	17958.5	17359.0	17297.2
32.5°	17187.7	13947.1	11920.1	11639.3	12600.5	14442.1	16926.0	19143.4	18562.9	18253.6
35°	17577.9	14523.0	12610.0	12281.7	13485.6	14994.0	17335.2	20199.8	20019.0	19719.3
37.5°	18329.8	15141.5	13423.7	13404.7	14556.3	15712.6	18072.8	21636.9	21603.6	21084.9
40°	18391.6	15817.3	14708.5	15308.1	16212.2	16964.1	18719.9	22036.6	22579.1	22227.0
42.5°	18486.8	17002.2	16930.8	17425.6	18201.3	18039.4	18743.7	22131.8	22959.8	22750.4
45°	18529.6	18187.0	19191.0	20104.7	20428.2	19448.0	18520.1	21950.9	23159.6	22636.2
47.5°	18187.0	19205.3	21018.3	22783.7	22878.9	20314.0	18424.9	21765.4	23278.5	22931.2
50°	18234.6	19843.0	22598.1	24177.9	23830.6	21080.2	18277.4	21651.2	23216.7	22983.5
52°	18120.4	19857.2	22821.8	24149.4	23906.7	20656.6	18025.2	21213.4	23159.6	23326.1
52.5°	18248.9	19771.6	22588.6	24168.4	23854.4	20866.1	17991.8	21456.1	23192.9	22855.1
55°	17806.3	18753.3	21222.9	21893.8	21846.2	18938.8	16968.8	20651.9	22322.2	22326.9
57.5°	16093.2	16255.0	16645.2	16630.9	16412.0	14889.3	14513.4	18991.2	19900.1	19405.1
60°	14180.4	11901.0	10849.4	10421.1	10178.5	9931.0	12838.5	17373.3	17458.9	17249.6
62.5°	12253.1	8251.2	6852.2	6733.3	6790.4	7694.5	12410.1	16730.9	16217.0	15764.9
65°	9888.1	6014.7	4977.4	4820.4	5377.1	6352.6	10045.2	12829.0	12039.0	11663.1
67.5°	6209.9	4387.3	3364.3	3069.2	3740.2	4373.0	6600.0	8060.9	7175.8	6657.1
70°	3683.1	2450.6	1522.7	1365.7	1537.0	2331.7	3697.4	4020.9	3326.2	3059.7
72.5°	1451.3	899.4	423.5	361.6	375.9	818.5	1360.9	1327.6	1004.1	894.6
75°	390.2	271.2	147.5	119.0	99.9	152.3	218.9	142.7	52.3	66.6
77.5°	180.8	161.8	128.5	99.9	76.1	57.1	28.5	9.5	9.5	4.8
80°	157.0	138.0	119.0	99.9	76.1	47.6	23.8	4.8	4.8	4.8
82.5°	147.5	128.5	109.4	90.4	71.4	47.6	23.8	4.8	0.0	0.0
85°	61.9	80.9	90.4	85.6	76.1	47.6	23.8	4.8	0.0	0.0
87.5°	33.3	28.5	23.8	19.0	14.3	9.5	9.5	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)