

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: P649151

Luminaire Tested: **GLAN-SA9C-835-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649151  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9C-835-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35838.7 lumens  
Efficiency: N/A  
Efficacy: 74.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

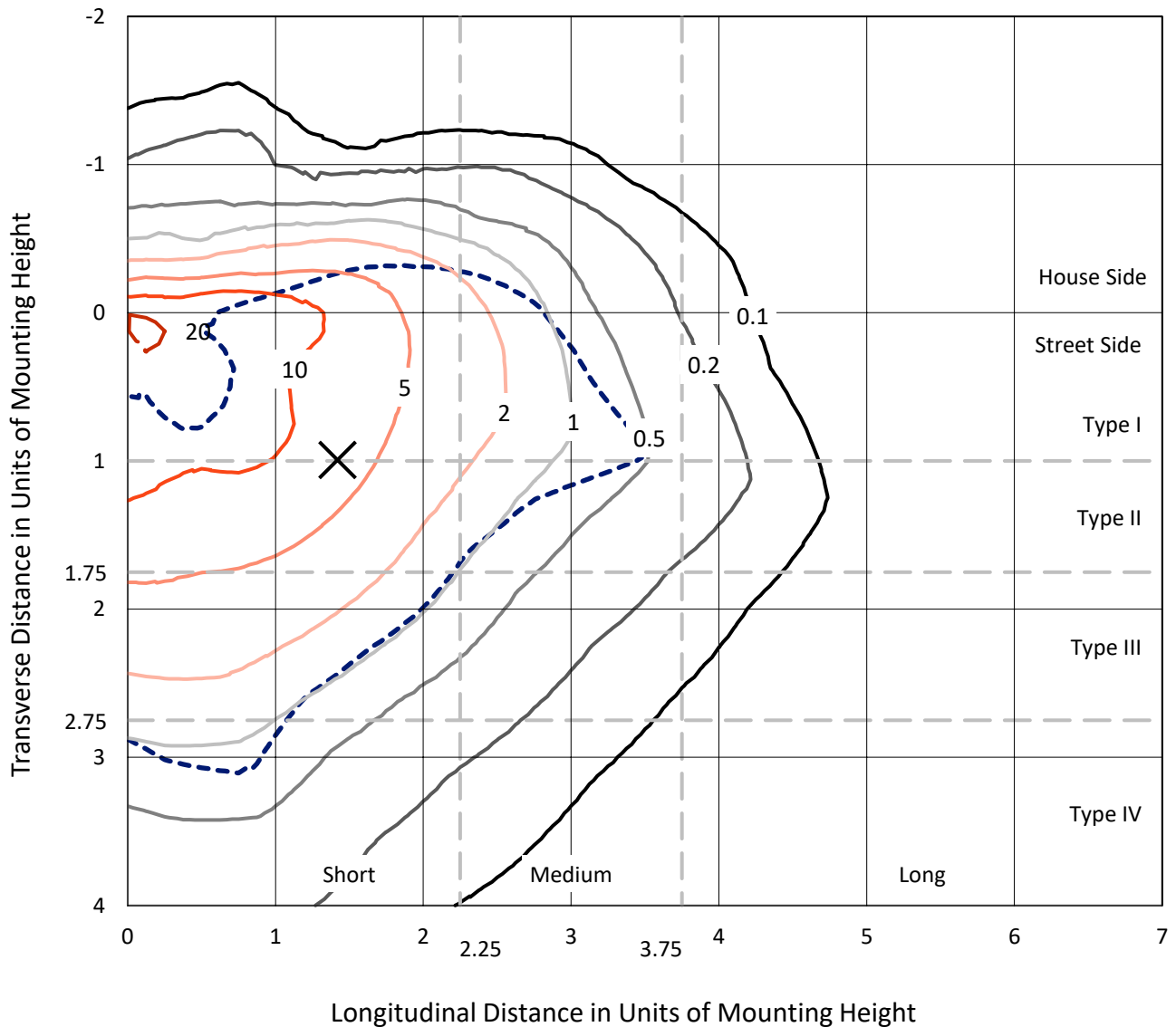
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

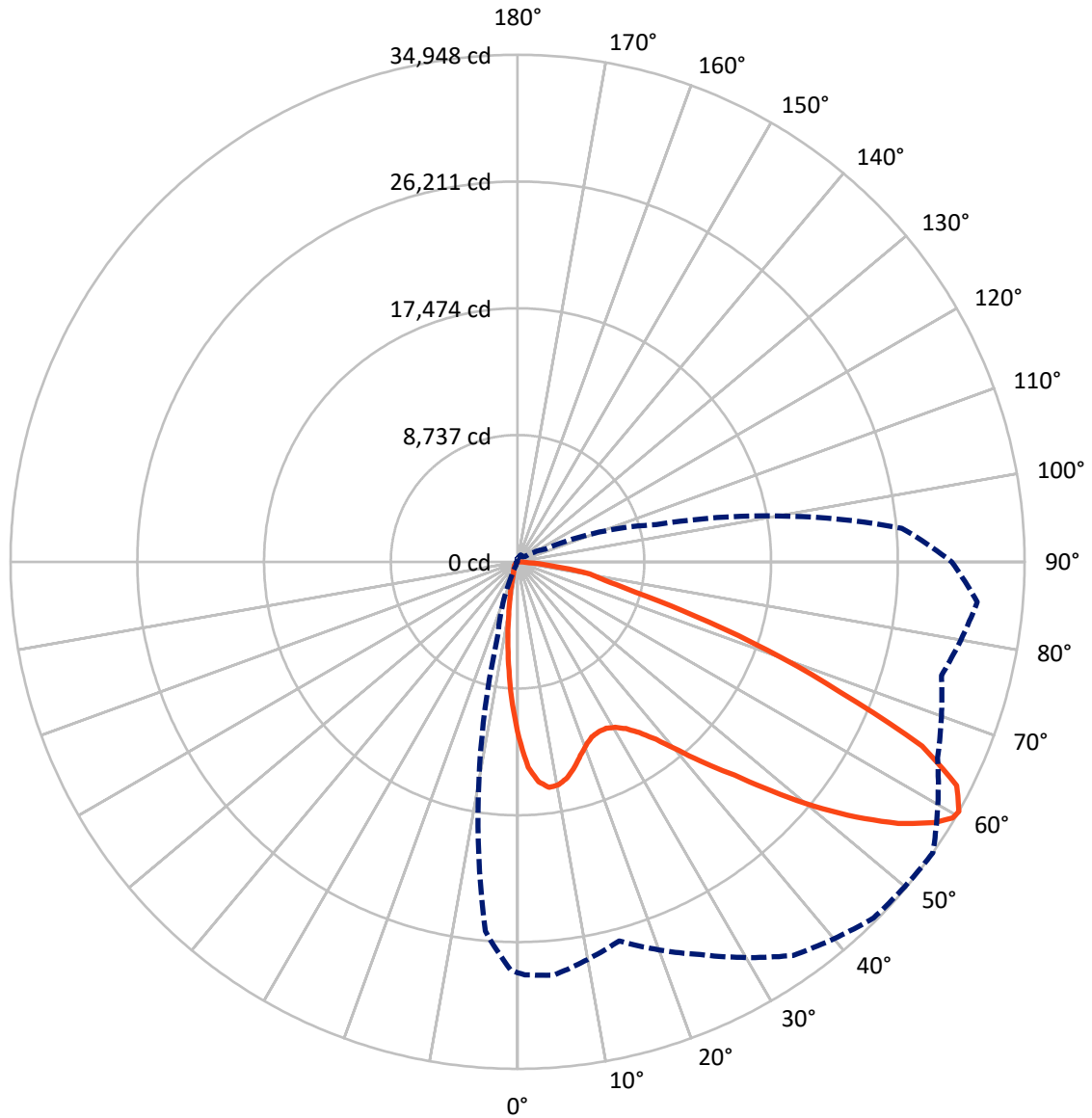
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5318.8	0.0	5318.8
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	30519.9	0.0	30519.9
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	35838.7	0.0	35838.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	898.6	2.5
10°-20°	1769.6	4.9
20°-30°	2619.3	7.3
30°-40°	3904.3	10.9
40°-50°	5717.9	16.0
50°-60°	8254.8	23.0
60°-70°	8683.7	24.2
70°-80°	3572.2	10.0
80°-90°	418.4	1.2
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°	35838.7	100.0
0°-180°	35838.7	100.0

**Coefficient of Utilization**

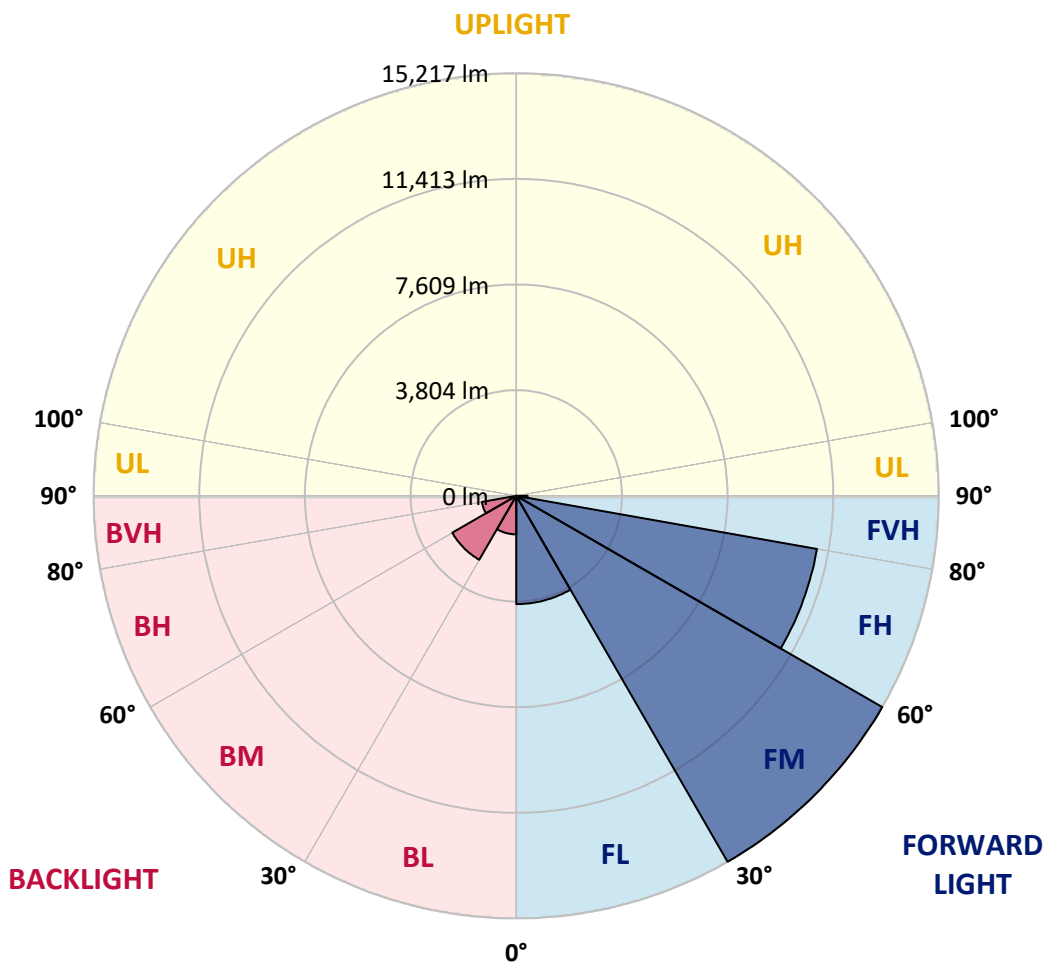


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3899.8	10.9			
FM (30°-60°)	15217.2	42.5			
FH (60°-80°)	10996.9	30.7			G4/12000
FVH (80°-90°)	406.1	1.1			G3/500
BL (0°-30°)	1387.7	3.9	B3/2500		
BM (30°-60°)	2659.9	7.4	B3/5000		
BH (60°-80°)	1258.9	3.5	B3/2500		G3/2500
BVH (80°-90°)	12.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9
2.5°	13257.6	13235.5	13431.4	13751.4	14074.1	14242.5	14209.3	14195.6	13927.9	13732.1	13321.0
5°	13230.0	13343.1	13693.5	14559.7	15216.2	15533.4	15627.2	15232.7	14711.4	13955.6	13023.2
7.5°	12438.3	12579.0	13150.0	14504.4	15671.4	16361.0	16336.2	15704.5	14628.6	13459.0	12129.4
10°	11456.3	11621.8	12292.1	13936.2	15450.7	16361.0	16410.7	15610.7	14272.8	12772.1	11373.5
12.5°	10763.9	10959.7	11701.8	13406.6	14882.4	15778.9	15836.9	15257.5	14005.2	12507.3	10962.5
15°	10529.4	10714.3	11467.3	13139.0	14278.3	14761.0	14747.3	14686.6	13900.4	12570.8	10984.6
17.5°	10932.2	11083.8	11933.5	13260.3	13712.8	13663.1	13734.8	14027.3	13922.4	13103.1	11679.7
20°	11972.1	12126.6	13039.7	13632.8	13279.7	12965.2	12998.3	13486.5	14126.6	14104.5	12766.6
22.5°	13403.8	13665.9	14493.4	14355.5	13221.7	12532.1	12463.2	13097.6	14474.1	15257.5	14234.2
25°	15216.2	15481.0	16126.5	15508.6	13505.9	12430.0	12366.6	12979.0	14896.2	16383.0	15886.5
27.5°	16738.9	16940.3	17583.0	16631.3	13925.2	12474.2	12369.4	12995.5	15238.3	17340.2	17279.6
30°	17958.2	18107.2	18485.1	17155.5	14286.5	12667.3	12545.9	13238.3	15389.9	17806.4	18407.9
32.5°	18940.2	19191.3	19309.9	17715.5	14805.2	13031.4	12824.5	13704.5	15759.6	18383.0	19591.3
35°	20063.0	20352.6	20200.9	18250.6	15489.3	13599.7	13345.9	14460.4	16319.6	18915.4	20965.0
37.5°	21486.4	21820.2	21227.1	18813.4	16212.0	14454.8	14336.2	15522.3	17169.2	19676.8	22438.1
40°	22959.4	23152.5	22222.9	19497.5	17100.3	15698.9	15812.1	17100.3	18280.9	20589.8	24005.0
42.5°	24109.7	24291.9	23246.3	20071.3	18007.8	17174.8	17646.5	19003.6	19555.4	21525.0	25174.5
45°	24989.8	25144.2	23955.3	20697.4	19232.7	19312.6	20203.7	20965.0	20832.6	22096.0	26076.6
47.5°	25673.9	25806.3	24501.5	21370.5	21067.1	21927.8	23290.5	23613.2	22156.7	22714.0	26893.2
50°	25955.3	25993.9	24672.5	22228.4	23149.8	25260.0	26680.7	26484.9	23673.9	23400.8	27762.1
52.5°	26322.1	26313.9	25160.8	23044.9	25108.4	28239.3	29657.2	29213.1	25389.7	24429.8	28738.6
55°	27284.9	27295.9	26206.3	24203.5	26777.3	30644.8	32162.0	31839.2	27199.4	26167.6	29877.9
57.5°	28454.5	28495.9	27693.1	25558.0	28371.8	32388.2	34032.3	33908.1	29646.2	28101.4	30953.7
59°	28606.2	28689.0	28396.6	26512.5	29317.9	32923.3	34672.3	34793.6	30956.5	29375.8	31535.8
60°	28330.3	28468.3	28600.7	27053.1	29872.4	33116.4	34710.9	34948.1	31941.3	30242.0	31800.6
62.5°	27127.7	27345.6	28010.3	28716.5	30564.8	32515.1	33477.8	33974.4	33160.6	32517.8	31825.4
65°	25552.5	25665.6	26625.6	29011.7	29221.4	29706.9	30004.8	30642.0	31695.8	33395.0	30686.2
67.5°	22970.5	23304.3	24479.4	27298.7	25257.3	24683.5	24609.1	23974.6	26711.1	31304.1	27877.9
70°	18976.1	19125.1	20573.3	22380.2	19061.6	18178.9	18532.0	18294.7	20705.7	26948.4	22438.1
72.5°	14350.0	14686.6	16101.7	17839.6	12970.7	11826.0	12799.7	12711.5	15552.7	21657.4	15414.8
75°	10209.4	10427.4	12231.4	13961.0	9083.9	7696.3	8046.7	8375.0	10857.7	17100.3	9108.7
77.5°	7015.0	7202.6	8557.0	9232.9	6626.1	6347.5	5806.7	6124.0	7114.3	10146.0	4957.1
80°	4231.6	4223.3	5114.4	5279.8	4615.1	5359.9	4496.5	5048.2	4300.5	4342.0	1919.9
82.5°	2747.5	2719.9	3128.2	3409.6	2568.2	2700.6	1812.3	2612.3	2802.7	1211.0	606.9
85°	1230.3	1282.7	1503.4	1983.4	1125.5	598.6	369.7	802.7	1194.5	609.6	0.0
87.5°	126.9	99.3	264.8	482.7	154.5	16.5	55.2	27.6	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°	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9
2.5°	13130.8	12970.7	12493.5	12046.6	11663.2	11194.2	10890.7	10413.5	10123.9	10035.6	10049.4
5°	12603.9	12143.2	11235.6	10510.1	9701.8	9241.1	8540.5	7867.4	7503.3	7368.1	7307.4
7.5°	11500.4	11006.6	9911.4	8772.2	7906.0	7097.7	6576.4	5983.3	5577.8	5244.0	5186.0
10°	10681.1	10032.9	8675.6	7450.9	6766.8	6159.9	5638.5	5045.4	4568.2	4187.5	4082.6
12.5°	10190.1	9464.6	7950.2	6924.0	6275.7	5652.2	4973.7	4286.8	3798.6	3387.5	3197.1
15°	10101.8	9260.5	7746.0	6546.0	5746.0	4993.0	4090.9	3348.9	2846.8	2457.8	2339.3
17.5°	10634.2	9627.4	7715.7	6151.6	5053.6	3986.1	3048.2	2433.0	1867.5	1649.6	1564.1
20°	11583.2	10275.6	7712.9	5693.7	4342.0	3070.3	2140.6	1586.2	1357.2	1252.4	1202.8
22.5°	12876.9	11158.4	7859.1	5299.2	3602.7	2264.7	1528.3	1263.4	1131.0	1045.5	1026.2
25°	14457.5	12465.9	8217.7	5031.6	3037.2	1776.5	1260.6	1081.3	971.0	932.4	915.9
27.5°	15861.7	13718.3	8612.2	4755.8	2631.7	1572.3	1169.6	990.3	902.0	871.7	846.9
30°	17072.7	14854.8	8802.6	4391.6	2306.2	1439.9	1186.2	1059.3	943.4	852.4	811.0
32.5°	18082.3	15726.6	8926.7	4060.6	2030.3	1177.9	937.9	819.3	766.9	733.7	706.2
35°	19345.7	16669.9	8852.2	3873.0	1889.6	1073.1	855.1	706.2	617.9	551.7	524.1
37.5°	20669.9	17613.4	8722.5	3718.5	1826.2	995.8	813.8	670.3	573.8	504.8	468.9
40°	22040.8	18487.8	8570.8	3575.1	1768.2	946.2	789.0	639.9	543.4	468.9	430.3
42.5°	23296.0	19340.3	8510.1	3481.3	1674.4	954.5	769.6	626.2	513.1	435.8	402.8
45°	24311.1	20148.5	8592.9	3431.7	1572.3	940.7	775.2	609.6	488.3	413.8	380.7
47.5°	25395.3	21290.6	8860.5	3382.0	1473.1	874.5	816.5	606.9	477.2	400.0	364.1
50°	26655.9	22752.6	9472.9	3260.6	1351.7	802.7	869.0	604.1	463.5	383.4	347.6
52.5°	28335.9	24413.2	10104.6	3048.2	1175.1	733.7	830.3	595.9	435.8	364.1	328.2
55°	29844.8	26162.1	10639.7	2797.2	951.7	634.5	747.5	560.0	389.0	331.1	297.9
57.5°	30468.3	27149.7	10623.2	2449.6	761.4	557.3	615.1	513.1	339.3	292.4	264.8
59°	30239.3	27025.6	10267.3	2193.0	695.1	515.8	510.4	507.5	317.3	264.8	242.7
60°	29916.6	26573.1	9883.9	2066.2	653.8	488.3	468.9	502.1	297.9	248.3	226.2
62.5°	28680.7	24697.3	8612.2	1851.0	598.6	413.8	375.1	424.9	264.8	215.2	195.8
65°	26890.4	21814.6	7290.8	1790.3	582.1	342.1	311.7	303.4	226.2	182.0	165.5
67.5°	23398.1	18460.2	5906.1	1748.9	587.6	286.9	273.1	228.9	187.6	151.7	140.7
70°	18733.4	14394.1	4835.7	1702.0	593.1	234.5	228.9	182.0	151.7	126.9	115.9
72.5°	11381.8	8532.2	3806.8	1478.6	576.5	187.6	204.1	138.0	110.3	91.1	85.5
75°	7037.1	5839.8	2361.3	1150.3	380.7	138.0	143.4	85.5	74.5	57.9	57.9
77.5°	4077.2	3688.2	844.2	413.8	168.3	82.8	63.4	44.2	41.3	24.8	24.8
80°	1691.0	1354.4	292.4	140.7	91.1	38.6	13.8	2.7	0.0	0.0	0.0
82.5°	493.8	438.6	80.0	63.4	27.6	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°	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9
2.5°	9814.9	9723.9	9682.5	9823.2	9693.5	9859.1	9732.2	9787.3	9950.1	10021.9	10206.6
5°	7346.0	7252.2	7208.1	7420.5	7409.5	7514.3	7503.3	7599.8	7682.6	7497.8	7688.1
7.5°	5117.1	5053.6	5158.5	5324.0	5500.6	5442.6	5442.6	5313.0	5357.1	5329.5	5321.3
10°	3892.3	3674.4	3619.3	3613.7	3679.9	3693.7	3619.3	3440.0	3506.1	3525.5	3641.3
12.5°	3062.0	2893.7	2637.1	2521.3	2491.0	2515.8	2270.3	2113.1	2187.5	2143.4	2256.5
15°	2195.8	2057.9	1906.1	1776.5	1740.6	1691.0	1423.4	1235.8	1213.7	1222.0	1241.4
17.5°	1566.9	1473.1	1473.1	1335.2	1260.6	1111.7	976.6	893.8	885.5	893.8	907.6
20°	1155.9	1106.1	1100.7	1064.8	982.0	882.8	789.0	772.4	766.9	780.7	786.2
22.5°	995.8	943.4	899.3	896.5	819.3	736.6	692.4	670.3	673.1	678.6	692.4
25°	891.0	835.9	789.0	761.4	706.2	648.2	606.9	595.9	595.9	604.1	606.9
27.5°	816.5	747.5	706.2	667.6	617.9	568.3	532.4	524.1	518.6	524.1	537.9
30°	764.1	695.1	642.8	584.8	546.2	499.3	468.9	457.9	455.2	457.9	468.9
32.5°	653.8	612.4	571.0	518.6	471.7	441.4	408.3	389.0	389.0	394.5	405.5
35°	493.8	471.7	468.9	455.2	416.6	383.4	344.8	325.5	325.5	336.5	342.1
37.5°	435.8	394.5	389.0	383.4	366.9	322.8	286.9	270.4	267.6	275.9	286.9
40°	397.2	350.3	325.5	320.0	322.8	273.1	234.5	217.9	217.9	220.6	231.7
42.5°	366.9	311.7	267.6	262.1	273.1	228.9	190.3	173.8	173.8	173.8	187.6
45°	342.1	278.6	226.2	198.6	215.2	187.6	154.5	138.0	132.4	138.0	143.4
47.5°	325.5	253.8	198.6	160.0	160.0	148.9	124.1	104.8	99.3	102.1	110.3
50°	311.7	231.7	168.3	129.7	115.9	118.6	93.8	80.0	74.5	74.5	82.8
52.5°	289.6	209.7	146.2	110.3	88.2	80.0	69.0	57.9	55.2	57.9	63.4
55°	262.1	190.3	126.9	91.1	69.0	55.2	49.6	41.3	38.6	41.3	49.6
57.5°	231.7	160.0	102.1	71.7	46.9	35.9	33.1	27.6	22.1	24.8	30.4
59°	212.4	143.4	88.2	57.9	35.9	24.8	24.8	19.3	13.8	16.5	24.8
60°	204.1	132.4	74.5	49.6	30.4	19.3	19.3	13.8	8.3	11.0	19.3
62.5°	173.8	110.3	57.9	30.4	13.8	2.7	8.3	2.7	0.0	2.7	8.3
65°	146.2	88.2	38.6	13.8	0.0	0.0	0.0	0.0	0.0	0.0	2.7
67.5°	121.4	66.2	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	96.5	44.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	66.2	24.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	41.3	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P649151  
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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9	12134.9
2.5°	10217.7	10612.2	10854.9	11312.9	11781.8	12143.2	12595.6	13001.1	13169.4	13257.6
5°	7881.2	8430.2	8896.4	9594.3	10242.5	11031.5	11831.4	12774.9	13136.2	13230.0
7.5°	5530.9	6090.9	6579.2	7387.4	8311.5	9368.0	10565.3	11762.5	12289.3	12438.3
10°	3994.4	4593.0	5188.9	5997.1	6860.5	8005.3	9252.2	10733.5	11340.4	11456.3
12.5°	2521.3	3164.0	4132.3	5130.9	6044.0	6965.3	8270.1	9881.1	10551.5	10763.9
15°	1462.0	1942.0	2673.0	3975.1	5136.4	6355.7	7779.1	9561.1	10311.5	10529.4
17.5°	979.3	1144.8	1646.9	2642.7	4176.4	5792.9	7655.0	9823.2	10653.6	10932.2
20°	824.8	899.3	1075.8	1611.0	3216.5	5290.9	7688.1	10535.0	11624.6	11972.1
22.5°	725.5	794.4	907.6	1158.6	2245.5	4667.5	7845.3	11552.9	12959.7	13403.8
25°	639.9	708.9	808.3	960.0	1508.9	3947.5	8190.2	13042.4	14727.9	15216.2
27.5°	568.3	631.7	717.2	846.9	1161.3	3144.8	8496.3	14493.4	16341.7	16738.9
30°	502.1	554.4	637.2	736.6	965.5	2424.8	8650.8	15762.4	17516.8	17958.2
32.5°	435.8	485.5	565.5	645.5	794.4	1848.2	8543.2	16694.7	18658.9	18940.2
35°	372.4	424.9	491.0	565.5	686.8	1492.4	8005.3	17743.0	19842.3	20063.0
37.5°	320.0	364.1	433.1	491.0	620.7	1194.5	7354.3	18686.5	21169.2	21486.4
40°	270.4	314.5	383.4	435.8	571.0	940.7	6766.8	19734.7	22567.7	22959.4
42.5°	220.6	273.1	333.8	419.3	491.0	717.2	6055.0	20584.4	23618.7	24109.7
45°	176.6	234.5	300.7	416.6	427.6	546.2	5368.2	21246.4	24548.4	24989.8
47.5°	140.7	198.6	289.6	389.0	350.3	433.1	4976.4	21938.8	25320.8	25673.9
50°	113.1	165.5	303.4	342.1	292.4	366.9	4965.4	22711.1	25720.8	25955.3
52.5°	91.1	135.1	256.5	262.1	248.3	322.8	5263.3	23580.1	26129.0	26322.1
55°	77.2	113.1	168.3	193.1	223.5	292.4	5486.8	24918.0	27102.8	27284.9
57.5°	60.7	96.5	129.7	154.5	198.6	267.6	5517.1	25949.7	28335.9	28454.5
59°	52.4	82.8	115.9	138.0	182.0	251.0	5393.0	26013.1	28415.9	28606.2
60°	44.2	74.5	102.1	129.7	168.3	237.2	5257.8	25552.5	28117.9	28330.3
62.5°	33.1	57.9	74.5	104.8	138.0	204.1	4617.8	23944.2	26978.7	27127.7
65°	22.1	41.3	55.2	77.2	107.6	176.6	3762.7	21858.8	25218.7	25552.5
67.5°	13.8	30.4	44.2	57.9	88.2	148.9	2681.3	18744.4	22755.3	22970.5
70°	8.3	19.3	33.1	46.9	69.0	118.6	1591.7	14816.2	18931.9	18976.1
72.5°	5.5	13.8	22.1	33.1	55.2	107.6	772.4	9657.7	13823.1	14350.0
75°	2.7	8.3	13.8	24.8	44.2	88.2	369.7	6452.2	10057.7	10209.4
77.5°	0.0	2.7	8.3	16.5	33.1	69.0	215.2	4237.1	6857.7	7015.0
80°	0.0	0.0	5.5	13.8	24.8	44.2	129.7	2499.3	4154.4	4231.6
82.5°	0.0	0.0	2.7	11.0	16.5	33.1	66.2	1097.9	2719.9	2747.5
85°	0.0	0.0	2.7	11.0	13.8	22.1	24.8	148.9	1208.2	1230.3
87.5°	0.0	0.0	2.7	13.8	13.8	13.8	13.8	8.3	102.1	126.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)