

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P642720

Luminaire Tested: GWS-SA6D-740-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642720  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-740-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

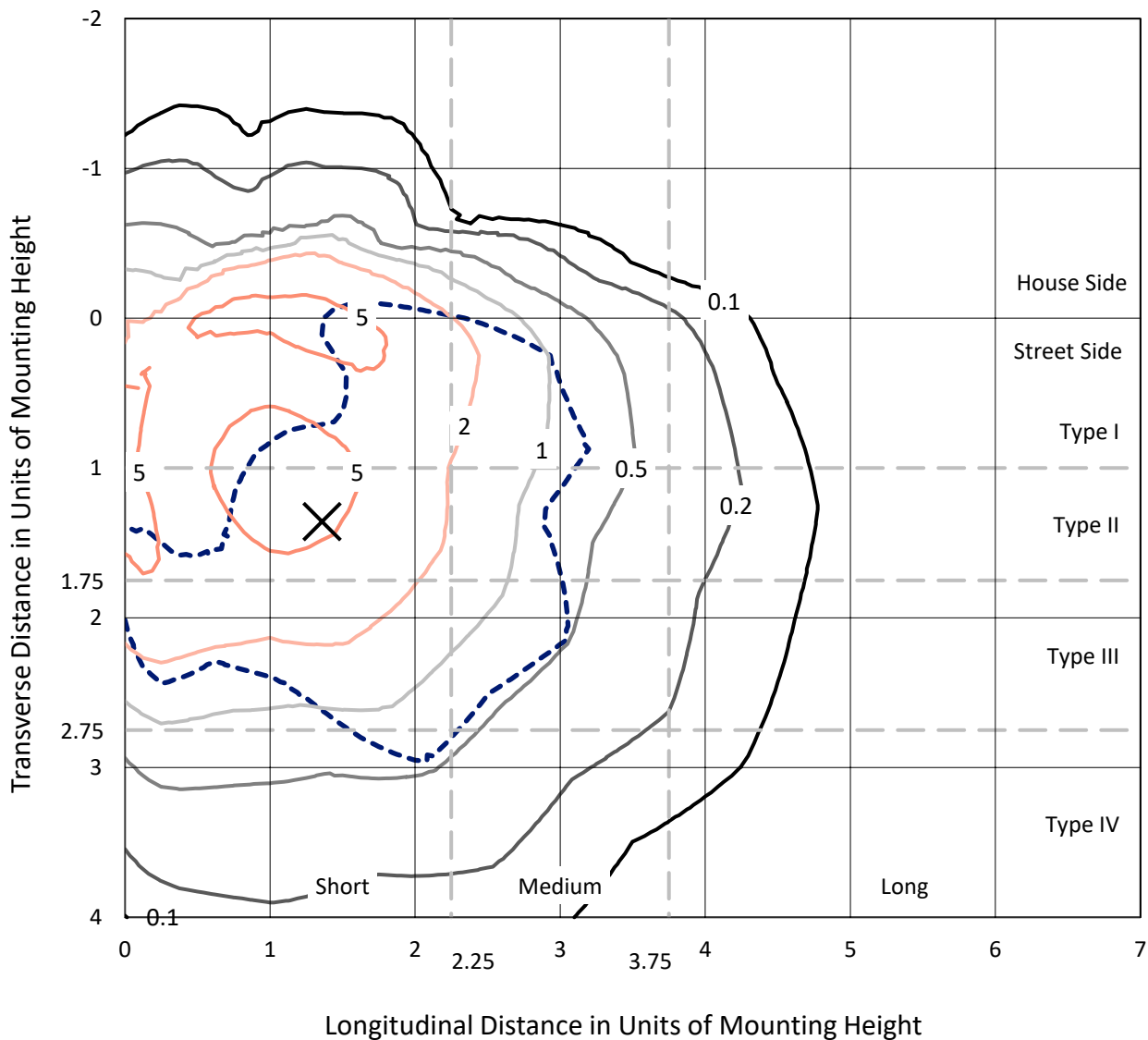
Lumens per Lamp: N/A  
Luminaire Lumens: 22230.8 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P642720  
 CATALOG NUMBER: GWS-SA6D-740-U-SLR-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

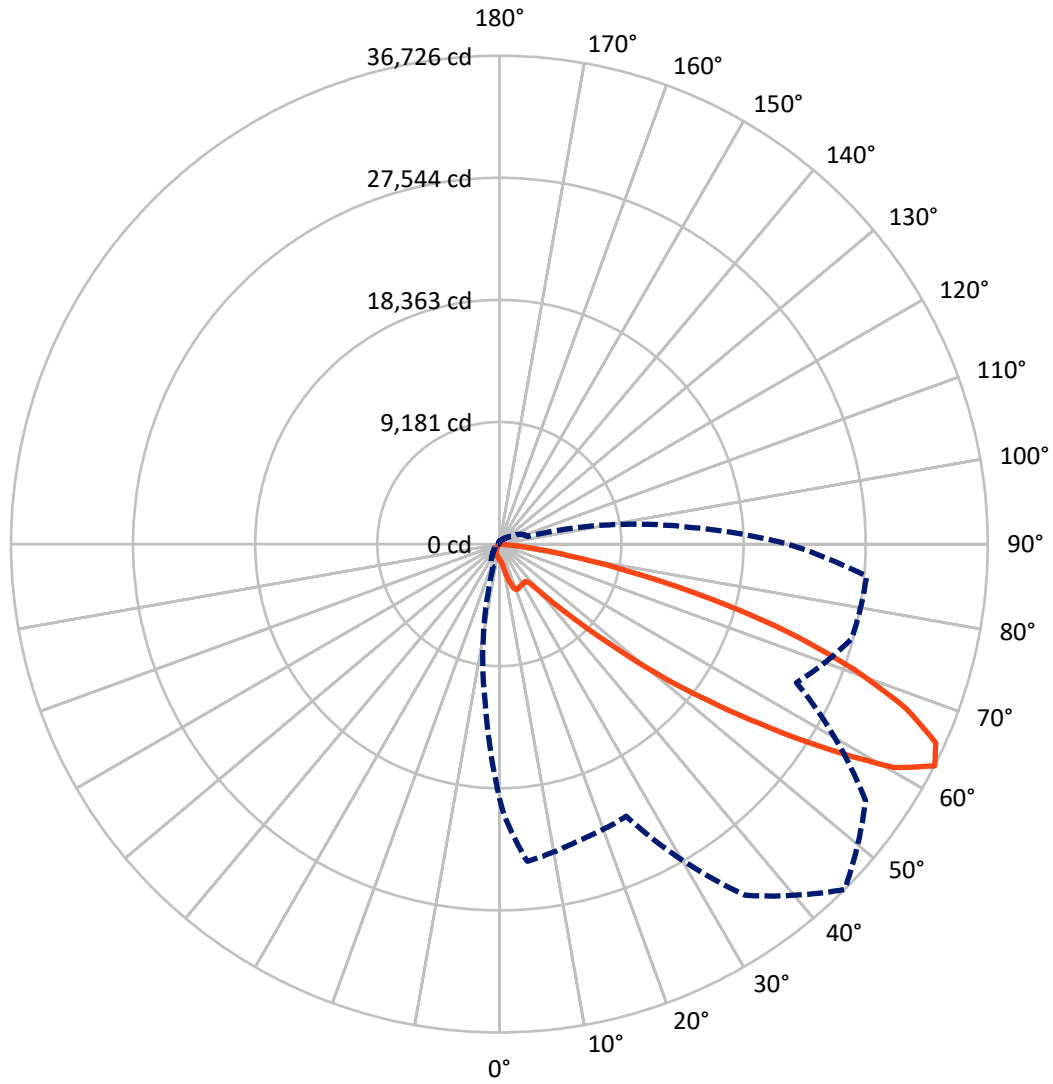
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P642720  
CATALOG NUMBER: GWS-SA6D-740-U-SLR-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P642720  
 CATALOG NUMBER: GWS-SA6D-740-U-SLR-W-HSS

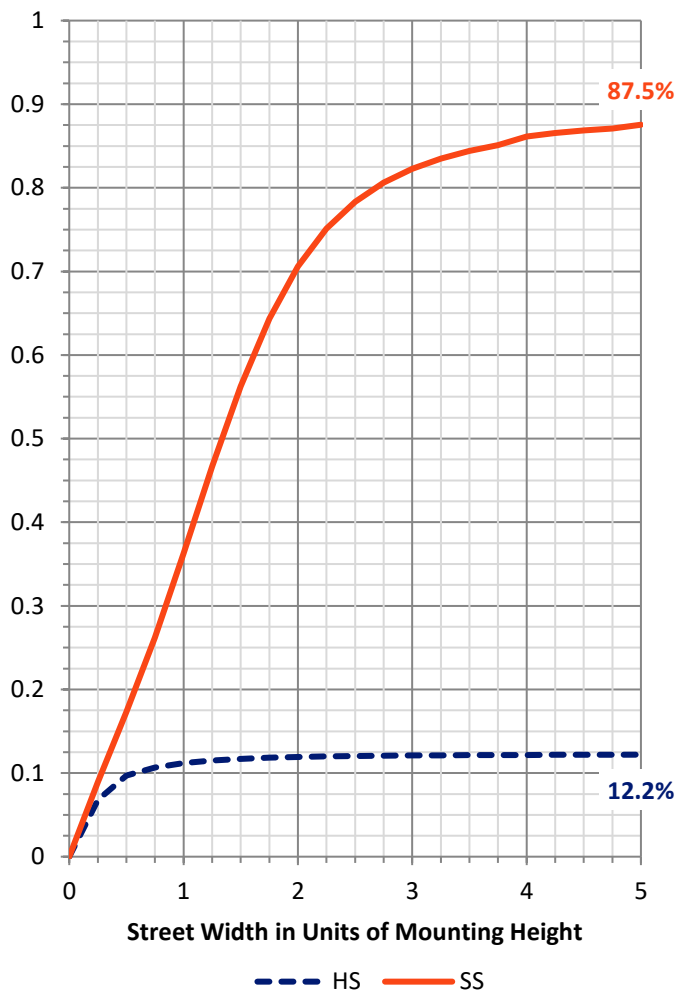
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2743.3	0.0	2743.3
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	19487.5	0.0	19487.5
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	22230.8	0.0	22230.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.5	0.5
10°-20°	387.6	1.7
20°-30°	842.5	3.8
30°-40°	1382.9	6.2
40°-50°	2542.2	11.4
50°-60°	5459.6	24.6
60°-70°	7333.0	33.0
70°-80°	3818.4	17.2
80°-90°	362.1	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°	22230.8	100.0
0°-180°	22230.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P642720

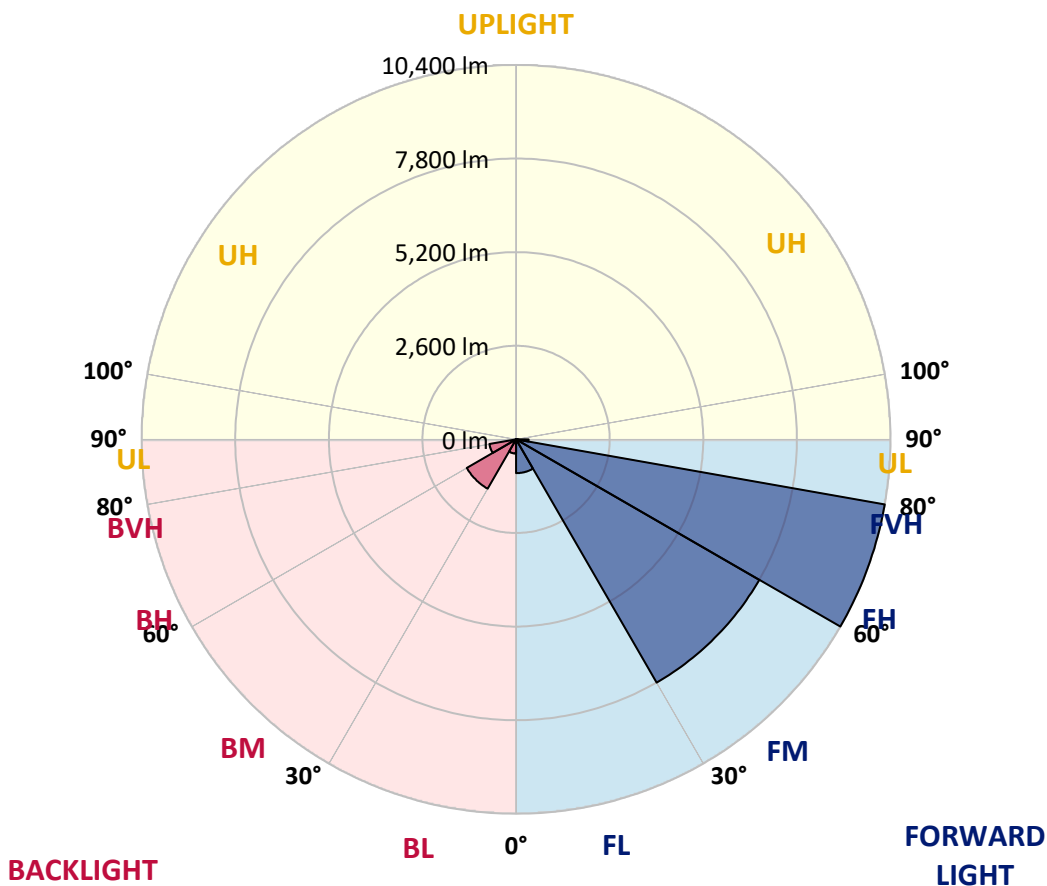
CATALOG NUMBER: GWS-SA6D-740-U-SLR-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	939.1	4.2			
FM (30°-60°)	7802.8	35.1			
FH (60°-80°)	10399.8	46.8			G4/12000
FVH (80°-90°)	345.9	1.6			G3/500
BL (0°-30°)	393.5	1.8	B1/500		
BM (30°-60°)	1581.9	7.1	B2/2500		
BH (60°-80°)	751.7	3.4	B2/1000		G2/1000
BVH (80°-90°)	16.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





REPORT NUMBER: P642720

CATALOG NUMBER: GWS-SA6D-740-U-SLR-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5
2.5°	1178.6	1183.8	1188.9	1206.9	1219.7	1230.0	1232.6	1224.9	1206.9	1188.9	1163.2
5°	1142.7	1147.8	1165.8	1214.6	1263.4	1301.9	1314.7	1307.0	1263.4	1206.9	1147.8
7.5°	1140.1	1150.4	1194.1	1296.8	1402.1	1481.7	1502.2	1484.2	1402.1	1289.1	1168.4
10°	1232.6	1250.5	1314.7	1499.6	1692.2	1833.5	1889.9	1812.9	1681.9	1476.5	1278.8
12.5°	1474.0	1504.8	1628.0	1897.6	2195.5	2383.0	2460.0	2365.0	2159.6	1861.7	1548.4
15°	1854.0	1900.2	2085.1	2488.3	2840.1	3007.0	3032.6	2978.7	2739.9	2411.2	1990.1
17.5°	2390.7	2457.4	2745.0	3155.9	3410.1	3469.2	3461.5	3405.0	3230.4	3004.4	2606.4
20°	3032.6	3112.2	3394.7	3733.7	3759.3	3690.0	3651.5	3618.1	3559.1	3520.5	3209.8
22.5°	3679.7	3777.3	4072.6	4157.4	3926.3	3726.0	3631.0	3656.6	3743.9	3934.0	3808.1
25°	4324.3	4416.7	4694.0	4465.5	4003.3	3669.5	3548.8	3610.4	3818.4	4229.3	4391.0
27.5°	5076.7	5146.0	5310.3	4676.1	4016.1	3623.2	3505.1	3600.1	3854.4	4414.1	5030.4
30°	5859.9	5900.9	5821.3	4732.6	3972.5	3553.9	3461.5	3600.1	3916.0	4537.4	5510.6
32.5°	6435.1	6442.8	6183.4	4737.7	3949.4	3497.4	3420.4	3584.7	3975.0	4640.1	5975.4
35°	7028.2	6989.7	6530.1	4814.7	4011.0	3518.0	3451.2	3628.4	4067.5	4760.8	6383.7
37.5°	7629.1	7559.8	6917.8	4940.6	4170.2	3741.4	3700.3	3851.8	4216.4	4927.7	6833.1
40°	8245.4	8150.4	7321.0	5130.6	4524.6	4501.5	4642.7	4624.7	4624.7	5140.9	7295.3
42.5°	8997.8	8887.4	7916.7	5667.3	5351.4	5867.6	6252.7	6013.9	5572.3	5631.3	7896.2
45°	9991.5	9896.5	8949.0	6694.4	6648.2	7834.5	8353.2	7880.8	6781.7	6763.7	8900.2
47.5°	11581.0	11563.1	10595.0	7885.9	8235.1	10338.2	11339.7	10430.6	8160.7	7962.9	10800.4
50°	13815.1	13761.2	12646.7	9282.8	10122.5	13440.2	15227.4	13712.4	9827.2	9362.4	13345.2
52.5°	16331.6	16388.1	15520.1	10808.1	12128.0	16891.4	19379.6	17471.7	11637.5	11141.9	16547.3
55°	18701.7	19025.3	18796.7	12592.8	14087.3	20702.1	23940.1	21595.7	13879.3	13471.0	20137.1
57.5°	20555.7	21467.3	23069.6	15186.3	16390.6	25159.9	29032.2	26066.3	16495.9	17253.4	25023.8
60°	20658.4	21865.3	25586.1	20612.2	19353.9	28983.4	34116.6	30434.3	20609.6	23675.7	28852.5
62.5°	19110.0	20404.2	23947.8	23077.3	22581.7	32236.9	36725.5	33618.4	24656.6	27437.6	27717.5
65°	17338.2	18645.2	22119.5	20280.9	22206.8	32098.2	36063.0	33692.9	25023.8	24880.0	25686.3
67.5°	14659.9	15833.4	18979.0	17951.9	20468.4	30549.8	33002.1	31569.3	23054.2	23269.9	23629.4
70°	10700.3	11830.1	14749.8	14801.1	17874.9	27758.5	28356.9	28159.1	21231.1	21459.6	20432.4
72.5°	7729.3	8681.9	11201.0	12138.3	14269.6	23277.6	22864.2	23626.9	18216.4	19112.6	16411.2
75°	5556.8	6270.7	8217.1	10559.0	11311.4	17286.8	16367.5	18298.6	14616.3	16457.4	12338.6
77.5°	2254.6	2506.2	3232.9	7113.0	7434.0	11629.8	10019.8	13291.2	10420.4	10813.3	5980.5
80°	92.4	102.7	133.5	3672.0	5097.2	6542.9	5361.7	7105.3	6881.9	4355.1	1412.3
82.5°	10.3	10.3	23.1	1058.0	2231.5	3610.4	2526.8	4093.2	3484.6	1846.3	642.0
85°	2.6	2.6	5.1	120.7	523.8	577.8	341.5	1255.7	1620.3	755.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	23.1	25.7	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: P642720

CATALOG NUMBER: GWS-SA6D-740-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5
2.5°	1163.2	1150.4	1135.0	1119.6	1111.9	1091.3	1083.6	1078.5	1073.4	1075.9	1075.9
5°	1124.7	1096.5	1063.1	1029.7	1011.7	991.2	980.9	975.8	978.4	988.6	988.6
7.5°	1119.6	1065.7	993.8	950.1	929.6	914.2	903.9	898.8	901.3	914.2	919.3
10°	1204.3	1109.3	980.9	906.5	883.3	867.9	857.7	850.0	844.8	855.1	857.7
12.5°	1386.6	1255.7	1042.6	901.3	860.2	839.7	832.0	816.6	808.9	814.0	816.6
15°	1764.1	1538.1	1165.8	921.9	839.7	816.6	803.7	790.9	778.1	775.5	778.1
17.5°	2257.1	1933.6	1353.3	970.7	824.3	796.0	778.1	760.1	742.1	739.5	737.0
20°	2868.3	2418.9	1615.2	1047.7	811.4	778.1	752.4	726.7	703.6	695.9	695.9
22.5°	3425.5	3004.4	1951.6	1142.7	793.5	752.4	721.6	690.8	665.1	652.2	649.7
25°	4106.0	3625.8	2354.7	1253.1	767.8	719.0	685.6	654.8	629.1	613.7	608.6
27.5°	4791.6	4280.6	2811.8	1396.9	737.0	685.6	654.8	626.6	598.3	580.3	575.2
30°	5456.7	4986.8	3325.4	1576.7	713.9	652.2	626.6	598.3	572.6	544.4	536.7
32.5°	6170.6	5708.3	3900.6	1777.0	695.9	629.1	600.9	575.2	541.8	516.1	503.3
35°	6858.7	6453.0	4534.8	1972.1	677.9	608.6	577.8	552.1	516.1	487.9	469.9
37.5°	7552.1	7210.5	5197.3	2090.2	652.2	580.3	552.1	531.5	490.5	457.1	436.5
40°	8286.5	7993.7	5913.8	2041.4	629.1	549.5	534.1	511.0	464.8	426.3	400.6
42.5°	9092.8	8741.0	6643.0	1854.0	608.6	523.8	508.4	485.3	441.7	395.5	362.1
45°	10107.1	9560.1	7241.4	1571.5	618.9	498.2	467.4	462.2	421.1	362.1	321.0
47.5°	11850.7	10818.4	7706.1	1389.2	688.2	469.9	434.0	446.8	403.2	328.7	282.5
50°	14518.7	12903.5	8140.1	1376.4	793.5	457.1	403.2	436.5	385.2	295.3	249.1
52.5°	17060.9	15022.0	8417.4	1489.4	885.9	490.5	372.3	423.7	372.3	272.2	226.0
55°	19492.6	16244.3	7921.8	1571.5	973.2	590.6	349.2	403.2	356.9	259.4	218.3
57.5°	22114.4	16788.7	6237.3	1738.4	1034.8	675.3	354.4	372.3	336.4	251.7	215.7
60°	22897.6	16092.8	3764.5	1956.7	1001.5	701.0	392.9	331.3	308.1	236.2	208.0
62.5°	21680.4	14441.6	2221.2	1782.1	973.2	662.5	449.4	305.6	279.9	215.7	192.6
65°	19859.8	12199.9	1448.3	1504.8	1032.3	590.6	477.6	292.7	254.2	195.2	169.5
67.5°	17779.9	9827.2	1014.3	888.5	952.7	531.5	403.2	290.2	228.5	164.3	138.7
70°	14975.8	7359.5	713.9	588.0	793.5	472.5	313.3	282.5	200.3	133.5	107.9
72.5°	11570.8	4606.7	531.5	380.0	564.9	385.2	249.1	238.8	161.8	110.4	82.2
75°	8533.0	2626.9	374.9	274.8	372.3	292.7	184.9	169.5	138.7	105.3	74.5
77.5°	4455.2	1314.7	233.7	210.6	213.1	182.3	133.5	123.3	128.4	105.3	69.3
80°	855.1	261.9	141.2	154.1	115.6	115.6	97.6	102.7	113.0	84.7	59.1
82.5°	356.9	56.5	77.0	87.3	71.9	79.6	79.6	82.2	79.6	61.6	43.7
85°	0.0	0.0	33.4	36.0	48.8	48.8	41.1	41.1	41.1	36.0	25.7
87.5°	0.0	0.0	0.0	0.0	2.6	7.7	15.4	18.0	20.5	15.4	10.3
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°	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5
2.5°	1073.4	1068.2	1075.9	1081.1	1086.2	1086.2	1081.1	1075.9	1068.2	1075.9	1068.2
5°	991.2	998.9	1011.7	1016.9	1022.0	1011.7	1006.6	991.2	978.4	980.9	975.8
7.5°	927.0	934.7	950.1	960.4	960.4	955.2	939.8	924.4	903.9	903.9	901.3
10°	867.9	878.2	896.2	909.0	914.2	909.0	893.6	873.1	855.1	855.1	847.4
12.5°	819.1	832.0	852.5	870.5	875.6	870.5	855.1	834.6	814.0	814.0	808.9
15°	778.1	793.5	816.6	837.1	844.8	837.1	819.1	793.5	772.9	775.5	767.8
17.5°	739.5	752.4	783.2	806.3	814.0	806.3	783.2	749.8	729.3	734.4	729.3
20°	695.9	711.3	742.1	767.8	775.5	767.8	742.1	706.2	685.6	685.6	688.2
22.5°	649.7	665.1	695.9	713.9	724.1	716.4	690.8	657.4	636.8	636.8	639.4
25°	608.6	616.3	639.4	657.4	659.9	652.2	631.7	606.0	590.6	598.3	600.9
27.5°	570.1	570.1	580.3	590.6	588.0	580.3	572.6	552.1	549.5	557.2	564.9
30°	529.0	516.1	511.0	503.3	500.7	498.2	505.9	505.9	511.0	521.3	529.0
32.5°	493.0	467.4	444.2	421.1	408.3	418.6	439.1	457.1	475.1	490.5	498.2
35°	451.9	410.9	372.3	341.5	321.0	336.4	369.8	403.2	434.0	454.5	467.4
37.5°	410.9	351.8	305.6	267.1	251.7	264.5	300.4	346.7	392.9	418.6	436.5
40°	367.2	292.7	238.8	208.0	192.6	205.4	241.4	287.6	349.2	382.6	405.7
42.5°	323.6	241.4	192.6	161.8	154.1	161.8	190.0	236.2	303.0	344.1	374.9
45°	279.9	200.3	154.1	131.0	123.3	131.0	154.1	192.6	259.4	305.6	341.5
47.5°	241.4	169.5	128.4	107.9	102.7	110.4	128.4	161.8	218.3	264.5	305.6
50°	210.6	148.9	110.4	92.4	87.3	95.0	110.4	136.1	184.9	226.0	269.6
52.5°	190.0	138.7	97.6	79.6	77.0	82.2	95.0	115.6	156.6	192.6	233.7
55°	184.9	138.7	89.9	71.9	69.3	74.5	84.7	100.1	136.1	166.9	202.9
57.5°	190.0	148.9	84.7	61.6	59.1	64.2	74.5	87.3	118.1	143.8	177.2
60°	190.0	151.5	74.5	48.8	46.2	51.4	61.6	77.0	105.3	125.8	154.1
62.5°	172.0	138.7	61.6	38.5	33.4	38.5	51.4	64.2	92.4	113.0	136.1
65°	148.9	118.1	51.4	28.2	23.1	28.2	41.1	53.9	79.6	97.6	123.3
67.5°	120.7	89.9	38.5	20.5	15.4	20.5	30.8	43.7	66.8	84.7	110.4
70°	89.9	64.2	30.8	18.0	15.4	18.0	28.2	41.1	59.1	77.0	102.7
72.5°	66.8	43.7	25.7	18.0	12.8	18.0	25.7	38.5	56.5	74.5	97.6
75°	56.5	36.0	23.1	15.4	12.8	15.4	23.1	36.0	51.4	69.3	92.4
77.5°	53.9	33.4	20.5	12.8	10.3	12.8	20.5	30.8	46.2	64.2	89.9
80°	46.2	28.2	18.0	10.3	7.7	10.3	18.0	25.7	36.0	48.8	69.3
82.5°	36.0	23.1	12.8	5.1	2.6	5.1	12.8	15.4	23.1	28.2	41.1
85°	23.1	12.8	5.1	0.0	0.0	0.0	5.1	10.3	10.3	12.8	20.5
87.5°	10.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.1	7.7
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: P642720  
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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5	1155.5
2.5°	1083.6	1086.2	1091.3	1099.0	1117.0	1132.4	1147.8	1168.4	1178.6	1178.6
5°	980.9	983.5	986.1	996.3	1022.0	1042.6	1075.9	1117.0	1137.6	1142.7
7.5°	901.3	906.5	911.6	919.3	945.0	973.2	1016.9	1093.9	1132.4	1140.1
10°	855.1	862.8	873.1	888.5	911.6	942.4	1016.9	1155.5	1219.7	1232.6
12.5°	819.1	832.0	842.3	860.2	888.5	937.3	1086.2	1330.2	1443.1	1474.0
15°	783.2	798.6	814.0	832.0	862.8	955.2	1219.7	1643.4	1830.9	1854.0
17.5°	747.2	765.2	785.8	806.3	844.8	998.9	1430.3	2077.4	2339.3	2390.7
20°	706.2	729.3	757.5	783.2	826.9	1068.2	1723.0	2593.5	2922.2	3032.6
22.5°	662.5	690.8	724.1	757.5	806.3	1153.0	2077.4	3148.2	3607.8	3679.7
25°	626.6	654.8	685.6	719.0	772.9	1255.7	2506.2	3836.4	4254.9	4324.3
27.5°	593.2	621.4	649.7	680.5	739.5	1389.2	3022.4	4568.2	5004.8	5076.7
30°	557.2	590.6	618.9	649.7	708.7	1553.6	3618.1	5379.7	5793.1	5859.9
32.5°	526.4	559.8	588.0	618.9	685.6	1733.3	4244.7	6098.7	6435.1	6435.1
35°	500.7	536.7	557.2	598.3	667.6	1848.9	4837.8	6784.3	7038.5	7028.2
37.5°	472.5	516.1	531.5	559.8	644.5	1861.7	5395.1	7508.4	7695.9	7629.1
40°	444.2	490.5	513.6	529.0	618.9	1756.4	6006.2	8173.5	8332.7	8245.4
42.5°	418.6	454.5	487.9	505.9	603.4	1571.5	6496.7	8884.8	9074.8	8997.8
45°	392.9	423.7	444.2	477.6	613.7	1443.1	6917.8	9714.2	10048.0	9991.5
47.5°	367.2	392.9	405.7	457.1	683.1	1384.1	7174.6	10998.1	11627.3	11581.0
50°	339.0	369.8	369.8	451.9	785.8	1404.6	7398.0	12857.3	13830.5	13815.1
52.5°	310.7	344.1	339.0	490.5	865.4	1499.6	7652.2	14498.1	16190.3	16331.6
55°	282.5	313.3	318.4	567.5	911.6	1581.8	6668.7	15188.9	18206.1	18701.7
57.5°	251.7	269.6	331.3	626.6	896.2	1820.6	4568.2	15314.7	19492.6	20555.7
60°	218.3	233.7	374.9	613.7	847.4	1681.9	2876.0	14184.8	19310.3	20658.4
62.5°	190.0	215.7	395.5	541.8	862.8	1458.5	1833.5	12089.5	17571.9	19110.0
65°	166.9	208.0	359.5	490.5	873.1	988.6	1237.7	9834.9	15874.5	17338.2
67.5°	148.9	231.1	295.3	436.5	749.8	695.9	850.0	7641.9	13347.7	14659.9
70°	136.1	236.2	241.4	374.9	580.3	446.8	559.8	5143.4	9200.6	10700.3
72.5°	123.3	174.6	182.3	300.4	374.9	272.2	362.1	2942.8	6707.2	7729.3
75°	118.1	118.1	125.8	195.2	208.0	197.7	233.7	1756.4	4809.6	5556.8
77.5°	110.4	89.9	79.6	125.8	113.0	141.2	138.7	780.6	2085.1	2254.6
80°	87.3	64.2	53.9	79.6	77.0	95.0	82.2	64.2	95.0	92.4
82.5°	53.9	41.1	38.5	48.8	43.7	48.8	38.5	10.3	10.3	10.3
85°	25.7	23.1	20.5	20.5	23.1	20.5	15.4	5.1	2.6	2.6
87.5°	12.8	12.8	10.3	7.7	10.3	10.3	7.7	2.6	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)