

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: P643820

Luminaire Tested: GWS-SA6F-760-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643820  
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-SAGF-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

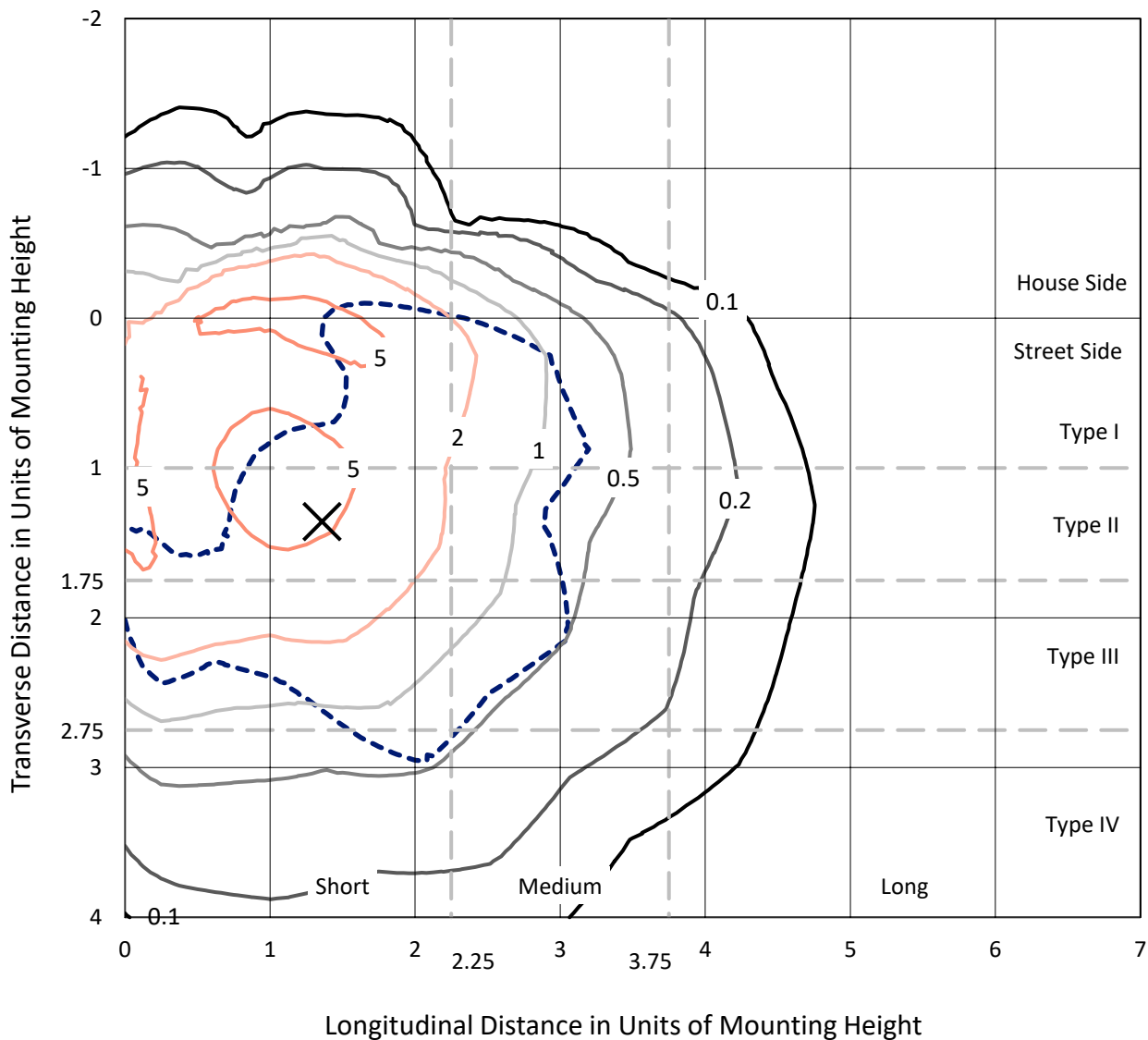
Lumens per Lamp: N/A  
Luminaire Lumens: 31161.9 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

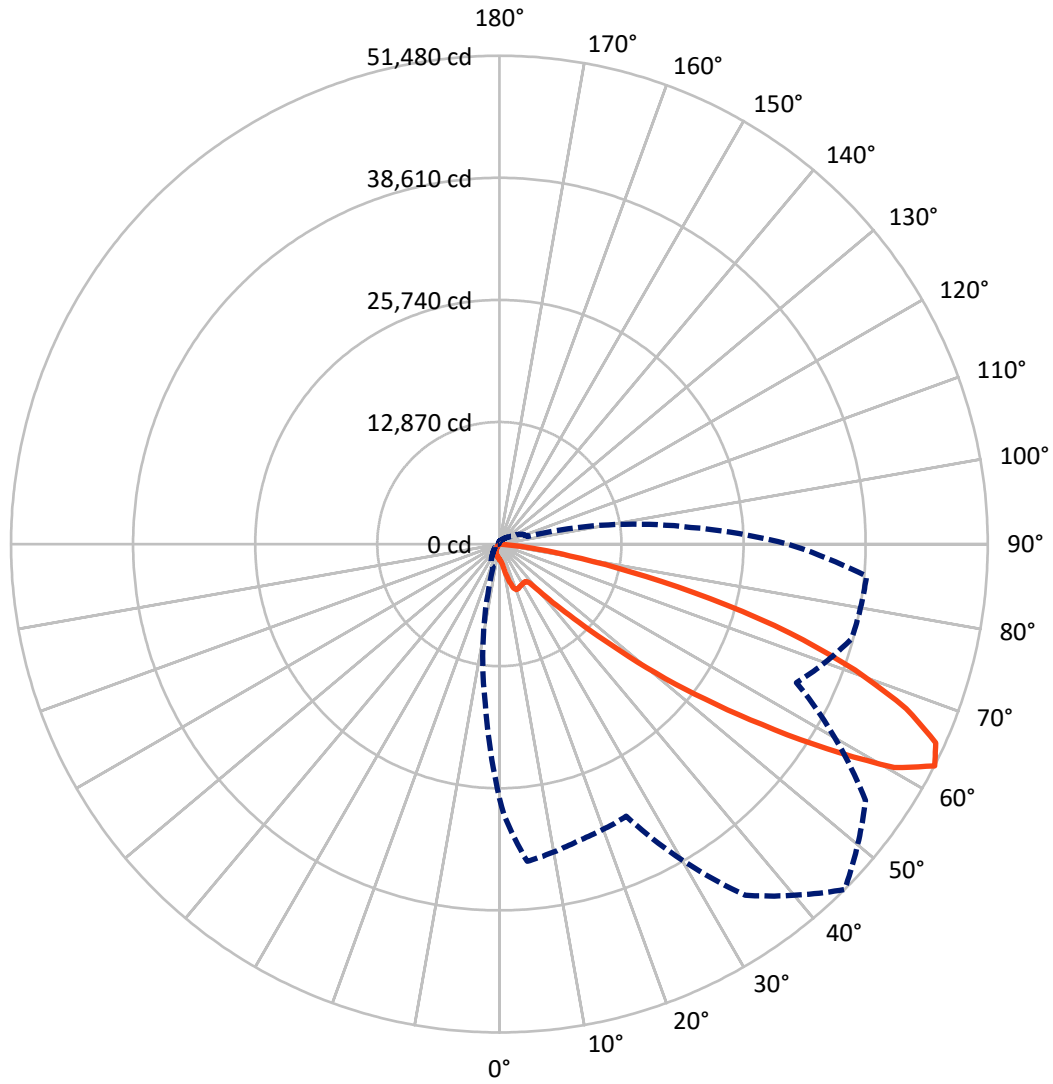
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3845.4	0.0	3845.4
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	27316.6	0.0	27316.6
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	31161.9	0.0	31161.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.7	0.5
10°-20°	543.3	1.7
20°-30°	1181.0	3.8
30°-40°	1938.5	6.2
40°-50°	3563.6	11.4
50°-60°	7652.9	24.6
60°-70°	10279.1	33.0
70°-80°	5352.4	17.2
80°-90°	507.5	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°	31161.9	100.0
0°-180°	31161.9	100.0

**Coefficient of Utilization**



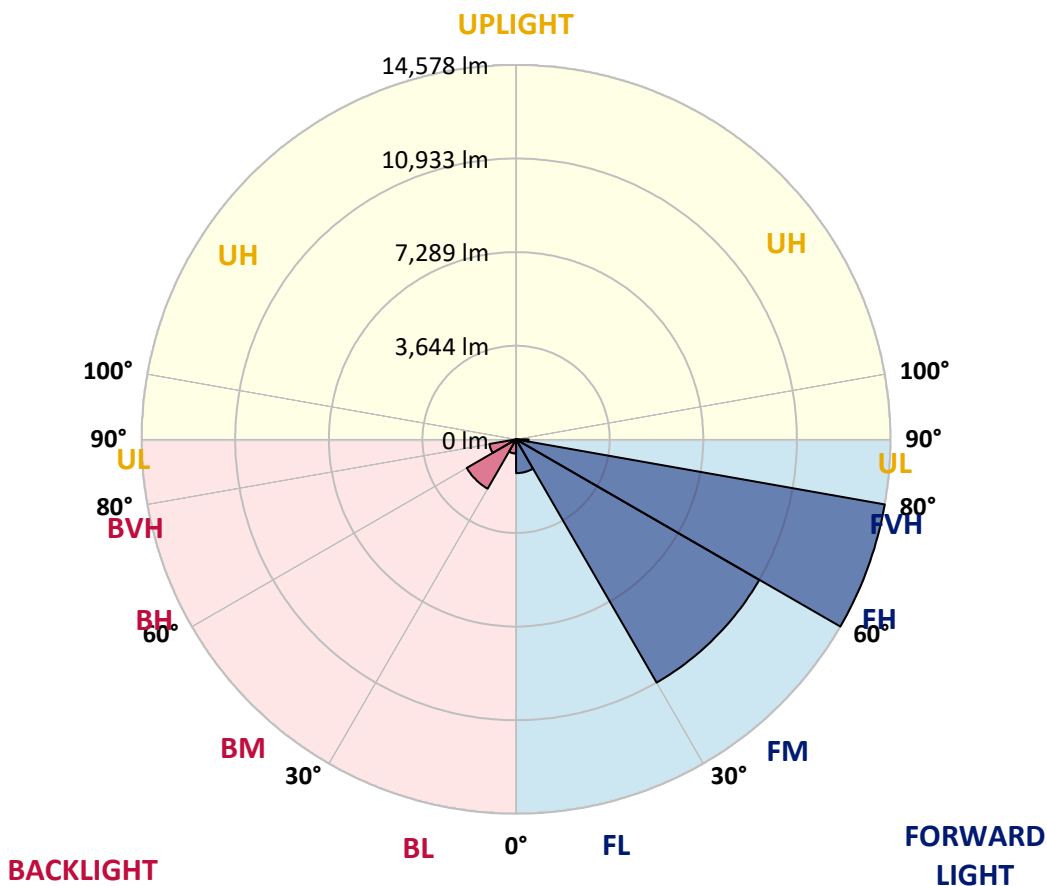
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1316.4	4.2			
FM (30°-60°)	10937.5	35.1			
FH (60°-80°)	14577.8	46.8			G5
FVH (80°-90°)	484.9	1.6			G3/500
BL (0°-30°)	551.6	1.8	B2/1000		
BM (30°-60°)	2217.5	7.1	B2/2500		
BH (60°-80°)	1053.7	3.4	B3/2500		G3/2500
BVH (80°-90°)	22.6	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-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8
2.5°	1652.2	1659.4	1666.6	1691.8	1709.8	1724.2	1727.8	1717.0	1691.8	1666.6	1630.6
5°	1601.8	1609.0	1634.2	1702.6	1770.9	1824.9	1842.9	1832.1	1770.9	1691.8	1609.0
7.5°	1598.2	1612.6	1673.8	1817.7	1965.3	2076.9	2105.7	2080.5	1965.3	1806.9	1637.8
10°	1727.8	1752.9	1842.9	2102.1	2372.1	2570.0	2649.2	2541.2	2357.7	2069.7	1792.5
12.5°	2066.1	2109.3	2282.1	2660.0	3077.6	3340.3	3448.3	3315.1	3027.2	2609.6	2170.5
15°	2598.8	2663.6	2922.8	3487.9	3981.0	4215.0	4251.0	4175.4	3840.6	3379.9	2789.6
17.5°	3351.1	3444.7	3847.8	4423.8	4780.1	4862.9	4852.1	4772.9	4528.1	4211.4	3653.5
20°	4251.0	4362.6	4758.5	5233.6	5269.6	5172.5	5118.5	5071.7	4988.9	4934.9	4499.4
22.5°	5158.1	5294.8	5708.8	5827.6	5503.6	5222.8	5089.7	5125.7	5248.0	5514.4	5338.0
25°	6061.5	6191.1	6579.9	6259.5	5611.6	5143.7	4974.5	5060.9	5352.4	5928.3	6155.1
27.5°	7116.2	7213.4	7443.7	6554.7	5629.6	5078.9	4913.3	5046.5	5402.8	6187.5	7051.4
30°	8214.0	8271.6	8160.0	6633.8	5568.4	4981.7	4852.1	5046.5	5489.2	6360.3	7724.5
32.5°	9020.3	9031.1	8667.6	6641.0	5536.0	4902.5	4794.5	5024.9	5572.0	6504.3	8376.0
35°	9851.8	9797.8	9153.5	6749.0	5622.4	4931.3	4837.7	5086.1	5701.6	6673.4	8948.3
37.5°	10694.1	10596.9	9697.0	6925.4	5845.6	5244.4	5186.9	5399.2	5910.3	6907.4	9578.2
40°	11557.9	11424.8	10262.1	7191.8	6342.3	6309.9	6507.9	6482.7	6482.7	7206.2	10226.1
42.5°	12612.6	12457.8	11097.2	7944.1	7501.3	8224.8	8764.7	8430.0	7810.9	7893.7	11068.4
45°	14005.6	13872.4	12544.2	9383.8	9319.1	10982.0	11709.1	11046.8	9506.2	9481.0	12475.8
47.5°	16233.7	16208.5	14851.5	11054.0	11543.5	14491.5	15895.3	14621.1	11439.2	11162.0	15139.4
50°	19365.2	19289.6	17727.4	13012.1	14189.2	18839.7	21344.9	19221.2	13775.2	13123.7	18706.5
52.5°	22892.7	22971.9	21755.3	15150.2	17000.3	23677.4	27165.3	24490.9	16312.8	15618.1	23195.1
55°	26215.0	26668.6	26348.2	17651.9	19746.8	29019.0	33558.0	30271.6	19455.2	18882.9	28227.1
57.5°	28813.8	30091.7	32337.7	21287.3	22975.5	35267.7	40695.7	36538.3	23123.1	24184.9	35076.9
60°	28957.8	30649.6	35865.2	28893.0	27129.3	40627.3	47822.7	42661.1	28889.4	33187.2	40443.8
62.5°	26787.3	28601.5	33568.8	32348.5	31653.8	45187.9	51479.8	47124.4	34562.2	38460.5	38852.8
65°	24303.7	26135.8	31005.9	28428.7	31128.3	44993.5	50551.1	47228.8	35076.9	34875.4	36005.6
67.5°	20549.4	22194.4	26603.8	25164.0	28691.5	42823.0	46260.5	44252.0	32316.1	32618.5	33122.4
70°	14999.0	16582.8	20675.4	20747.4	25056.0	38910.4	39749.1	39471.9	29760.5	30080.9	28641.1
72.5°	10834.4	12169.8	15700.9	17014.7	20002.3	32629.3	32049.8	33118.8	25534.7	26790.9	23004.3
75°	7789.3	8789.9	11518.3	14801.1	15855.7	24231.7	22943.1	25649.9	20488.2	23069.1	17295.5
77.5°	3160.3	3513.1	4531.7	9970.6	10420.5	16302.1	14045.2	18630.9	14606.7	15157.4	8383.2
80°	129.6	144.0	187.2	5147.3	7145.0	9171.5	7515.7	9959.8	9646.6	6104.7	1979.7
82.5°	14.4	14.4	32.4	1483.0	3127.9	5060.9	3541.9	5737.6	4884.5	2588.0	899.9
85°	3.6	3.6	7.2	169.2	734.3	809.9	478.7	1760.1	2271.3	1058.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	32.4	36.0	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°	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8
2.5°	1630.6	1612.6	1591.0	1569.4	1558.6	1529.8	1519.0	1511.8	1504.6	1508.2	1508.2
5°	1576.6	1537.0	1490.2	1443.4	1418.2	1389.4	1375.0	1367.8	1371.4	1385.8	1385.8
7.5°	1569.4	1493.8	1393.0	1331.8	1303.0	1281.4	1267.0	1259.8	1263.4	1281.4	1288.6
10°	1688.2	1555.0	1375.0	1270.6	1238.2	1216.6	1202.2	1191.4	1184.2	1198.6	1202.2
12.5°	1943.7	1760.1	1461.4	1263.4	1205.8	1177.0	1166.2	1144.6	1133.8	1141.0	1144.6
15°	2472.8	2156.1	1634.2	1292.2	1177.0	1144.6	1126.6	1108.6	1090.6	1087.0	1090.6
17.5°	3163.9	2710.4	1896.9	1360.6	1155.4	1115.8	1090.6	1065.4	1040.3	1036.7	1033.1
20°	4020.6	3390.7	2264.1	1468.6	1137.4	1090.6	1054.6	1018.7	986.3	975.5	975.5
22.5°	4801.7	4211.4	2735.6	1601.8	1112.2	1054.6	1011.5	968.3	932.3	914.3	910.7
25°	5755.6	5082.5	3300.7	1756.5	1076.2	1007.9	961.1	917.9	881.9	860.3	853.1
27.5°	6716.6	6000.3	3941.4	1958.1	1033.1	961.1	917.9	878.3	838.7	813.5	806.3
30°	7648.9	6990.2	4661.3	2210.1	1000.7	914.3	878.3	838.7	802.7	763.1	752.3
32.5°	8649.6	8001.6	5467.6	2490.8	975.5	881.9	842.3	806.3	759.5	723.5	705.5
35°	9614.2	9045.5	6356.7	2764.4	950.3	853.1	809.9	773.9	723.5	683.9	658.7
37.5°	10586.1	10107.3	7285.3	2930.0	914.3	813.5	773.9	745.1	687.5	640.7	611.9
40°	11615.5	11205.2	8289.6	2861.6	881.9	770.3	748.7	716.3	651.5	597.5	561.5
42.5°	12745.8	12252.6	9311.9	2598.8	853.1	734.3	712.7	680.3	619.1	554.3	507.5
45°	14167.6	13400.9	10150.5	2202.9	867.5	698.3	655.1	647.9	590.3	507.5	449.9
47.5°	16611.6	15164.6	10802.0	1947.3	964.7	658.7	608.3	626.3	565.1	460.7	395.9
50°	20351.5	18087.4	11410.4	1929.3	1112.2	640.7	565.1	611.9	539.9	413.9	349.1
52.5°	23915.0	21057.0	11799.1	2087.7	1241.8	687.5	521.9	593.9	521.9	381.5	316.8
55°	27323.7	22770.3	11104.4	2202.9	1364.2	827.9	489.5	565.1	500.3	363.5	306.0
57.5°	30998.7	23533.4	8743.1	2436.8	1450.6	946.7	496.7	521.9	471.5	352.7	302.4
60°	32096.6	22557.9	5276.8	2742.8	1403.8	982.7	550.7	464.3	431.9	331.2	291.6
62.5°	30390.4	20243.5	3113.6	2498.0	1364.2	928.7	629.9	428.3	392.3	302.4	270.0
65°	27838.4	17101.1	2030.1	2109.3	1447.0	827.9	669.5	410.3	356.3	273.6	237.6
67.5°	24922.8	13775.2	1421.8	1245.4	1335.4	745.1	565.1	406.7	320.4	230.4	194.4
70°	20992.2	10316.1	1000.7	824.3	1112.2	662.3	439.1	395.9	280.8	187.2	151.2
72.5°	16219.3	6457.5	745.1	532.7	791.9	539.9	349.1	334.8	226.8	154.8	115.2
75°	11961.1	3682.3	525.5	385.1	521.9	410.3	259.2	237.6	194.4	147.6	104.4
77.5°	6245.1	1842.9	327.6	295.2	298.8	255.6	187.2	172.8	180.0	147.6	97.2
80°	1198.6	367.1	198.0	216.0	162.0	162.0	136.8	144.0	158.4	118.8	82.8
82.5°	500.3	79.2	108.0	122.4	100.8	111.6	111.6	115.2	111.6	86.4	61.2
85°	0.0	0.0	46.8	50.4	68.4	68.4	57.6	57.6	57.6	50.4	36.0
87.5°	0.0	0.0	0.0	0.0	3.6	10.8	21.6	25.2	28.8	21.6	14.4
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°	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8
2.5°	1504.6	1497.4	1508.2	1515.4	1522.6	1522.6	1515.4	1508.2	1497.4	1508.2	1497.4
5°	1389.4	1400.2	1418.2	1425.4	1432.6	1418.2	1411.0	1389.4	1371.4	1375.0	1367.8
7.5°	1299.4	1310.2	1331.8	1346.2	1346.2	1339.0	1317.4	1295.8	1267.0	1267.0	1263.4
10°	1216.6	1231.0	1256.2	1274.2	1281.4	1274.2	1252.6	1223.8	1198.6	1198.6	1187.8
12.5°	1148.2	1166.2	1195.0	1220.2	1227.4	1220.2	1198.6	1169.8	1141.0	1141.0	1133.8
15°	1090.6	1112.2	1144.6	1173.4	1184.2	1173.4	1148.2	1112.2	1083.4	1087.0	1076.2
17.5°	1036.7	1054.6	1097.8	1130.2	1141.0	1130.2	1097.8	1051.0	1022.3	1029.5	1022.3
20°	975.5	997.1	1040.3	1076.2	1087.0	1076.2	1040.3	989.9	961.1	961.1	964.7
22.5°	910.7	932.3	975.5	1000.7	1015.1	1004.3	968.3	921.5	892.7	892.7	896.3
25°	853.1	863.9	896.3	921.5	925.1	914.3	885.5	849.5	827.9	838.7	842.3
27.5°	799.1	799.1	813.5	827.9	824.3	813.5	802.7	773.9	770.3	781.1	791.9
30°	741.5	723.5	716.3	705.5	701.9	698.3	709.1	709.1	716.3	730.7	741.5
32.5°	691.1	655.1	622.7	590.3	572.3	586.7	615.5	640.7	665.9	687.5	698.3
35°	633.5	575.9	521.9	478.7	449.9	471.5	518.3	565.1	608.3	637.1	655.1
37.5°	575.9	493.1	428.3	374.3	352.7	370.7	421.1	485.9	550.7	586.7	611.9
40°	514.7	410.3	334.8	291.6	270.0	288.0	338.4	403.1	489.5	536.3	568.7
42.5°	453.5	338.4	270.0	226.8	216.0	226.8	266.4	331.2	424.7	482.3	525.5
45°	392.3	280.8	216.0	183.6	172.8	183.6	216.0	270.0	363.5	428.3	478.7
47.5°	338.4	237.6	180.0	151.2	144.0	154.8	180.0	226.8	306.0	370.7	428.3
50°	295.2	208.8	154.8	129.6	122.4	133.2	154.8	190.8	259.2	316.8	377.9
52.5°	266.4	194.4	136.8	111.6	108.0	115.2	133.2	162.0	219.6	270.0	327.6
55°	259.2	194.4	126.0	100.8	97.2	104.4	118.8	140.4	190.8	234.0	284.4
57.5°	266.4	208.8	118.8	86.4	82.8	90.0	104.4	122.4	165.6	201.6	248.4
60°	266.4	212.4	104.4	68.4	64.8	72.0	86.4	108.0	147.6	176.4	216.0
62.5°	241.2	194.4	86.4	54.0	46.8	54.0	72.0	90.0	129.6	158.4	190.8
65°	208.8	165.6	72.0	39.6	32.4	39.6	57.6	75.6	111.6	136.8	172.8
67.5°	169.2	126.0	54.0	28.8	21.6	28.8	43.2	61.2	93.6	118.8	154.8
70°	126.0	90.0	43.2	25.2	21.6	25.2	39.6	57.6	82.8	108.0	144.0
72.5°	93.6	61.2	36.0	25.2	18.0	25.2	36.0	54.0	79.2	104.4	136.8
75°	79.2	50.4	32.4	21.6	18.0	21.6	32.4	50.4	72.0	97.2	129.6
77.5°	75.6	46.8	28.8	18.0	14.4	18.0	28.8	43.2	64.8	90.0	126.0
80°	64.8	39.6	25.2	14.4	10.8	14.4	25.2	36.0	50.4	68.4	97.2
82.5°	50.4	32.4	18.0	7.2	3.6	7.2	18.0	21.6	32.4	39.6	57.6
85°	32.4	18.0	7.2	0.0	0.0	0.0	7.2	14.4	14.4	18.0	28.8
87.5°	14.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.2	10.8
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: P643820

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8
2.5°	1519.0	1522.6	1529.8	1540.6	1565.8	1587.4	1609.0	1637.8	1652.2	1652.2
5°	1375.0	1378.6	1382.2	1396.6	1432.6	1461.4	1508.2	1565.8	1594.6	1601.8
7.5°	1263.4	1270.6	1277.8	1288.6	1324.6	1364.2	1425.4	1533.4	1587.4	1598.2
10°	1198.6	1209.4	1223.8	1245.4	1277.8	1321.0	1425.4	1619.8	1709.8	1727.8
12.5°	1148.2	1166.2	1180.6	1205.8	1245.4	1313.8	1522.6	1864.5	2022.9	2066.1
15°	1097.8	1119.4	1141.0	1166.2	1209.4	1339.0	1709.8	2303.7	2566.4	2598.8
17.5°	1047.4	1072.6	1101.4	1130.2	1184.2	1400.2	2004.9	2912.0	3279.1	3351.1
20°	989.9	1022.3	1061.8	1097.8	1159.0	1497.4	2415.3	3635.5	4096.2	4251.0
22.5°	928.7	968.3	1015.1	1061.8	1130.2	1616.2	2912.0	4413.0	5057.3	5158.1
25°	878.3	917.9	961.1	1007.9	1083.4	1760.1	3513.1	5377.6	5964.3	6061.5
27.5°	831.5	871.1	910.7	953.9	1036.7	1947.3	4236.6	6403.5	7015.4	7116.2
30°	781.1	827.9	867.5	910.7	993.5	2177.7	5071.7	7540.9	8120.4	8214.0
32.5°	737.9	784.7	824.3	867.5	961.1	2429.6	5949.9	8548.8	9020.3	9020.3
35°	701.9	752.3	781.1	838.7	935.9	2591.6	6781.4	9509.8	9866.2	9851.8
37.5°	662.3	723.5	745.1	784.7	903.5	2609.6	7562.5	10524.9	10787.6	10694.1
40°	622.7	687.5	719.9	741.5	867.5	2462.0	8419.2	11457.1	11680.3	11557.9
42.5°	586.7	637.1	683.9	709.1	845.9	2202.9	9106.7	12454.2	12720.6	12612.6
45°	550.7	593.9	622.7	669.5	860.3	2022.9	9697.0	13616.8	14084.8	14005.6
47.5°	514.7	550.7	568.7	640.7	957.5	1940.1	10057.0	15416.6	16298.5	16233.7
50°	475.1	518.3	518.3	633.5	1101.4	1968.9	10370.1	18022.6	19386.8	19365.2
52.5°	435.5	482.3	475.1	687.5	1213.0	2102.1	10726.5	20322.7	22694.7	22892.7
55°	395.9	439.1	446.3	795.5	1277.8	2217.3	9347.9	21290.9	25520.3	26215.0
57.5°	352.7	377.9	464.3	878.3	1256.2	2552.0	6403.5	21467.3	27323.7	28813.8
60°	306.0	327.6	525.5	860.3	1187.8	2357.7	4031.4	19883.5	27068.1	28957.8
62.5°	266.4	302.4	554.3	759.5	1209.4	2044.5	2570.0	16946.4	24631.2	26787.3
65°	234.0	291.6	503.9	687.5	1223.8	1385.8	1734.9	13786.0	22252.0	24303.7
67.5°	208.8	324.0	413.9	611.9	1051.0	975.5	1191.4	10712.1	18710.1	20549.4
70°	190.8	331.2	338.4	525.5	813.5	626.3	784.7	7209.8	12896.9	14999.0
72.5°	172.8	244.8	255.6	421.1	525.5	381.5	507.5	4125.0	9401.8	10834.4
75°	165.6	165.6	176.4	273.6	291.6	277.2	327.6	2462.0	6741.8	7789.3
77.5°	154.8	126.0	111.6	176.4	158.4	198.0	194.4	1094.2	2922.8	3160.3
80°	122.4	90.0	75.6	111.6	108.0	133.2	115.2	90.0	133.2	129.6
82.5°	75.6	57.6	54.0	68.4	61.2	68.4	54.0	14.4	14.4	14.4
85°	36.0	32.4	28.8	28.8	32.4	28.8	21.6	7.2	3.6	3.6
87.5°	18.0	18.0	14.4	10.8	14.4	14.4	10.8	3.6	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)