

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: P643160

Luminaire Tested: GWS-SA6E-735-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643160  
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-SAGE-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

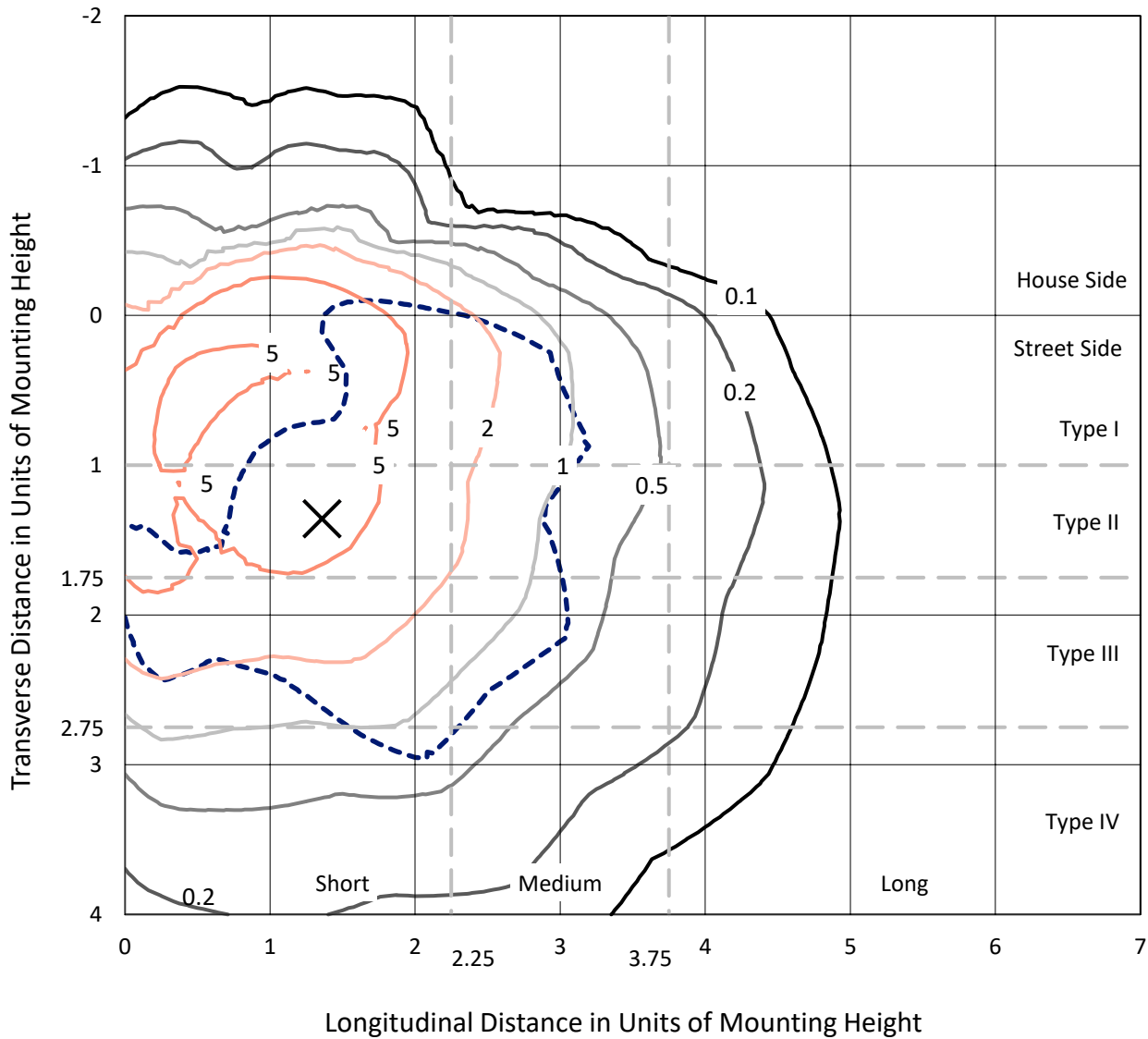
Lumens per Lamp: N/A  
Luminaire Lumens: 27399.9 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

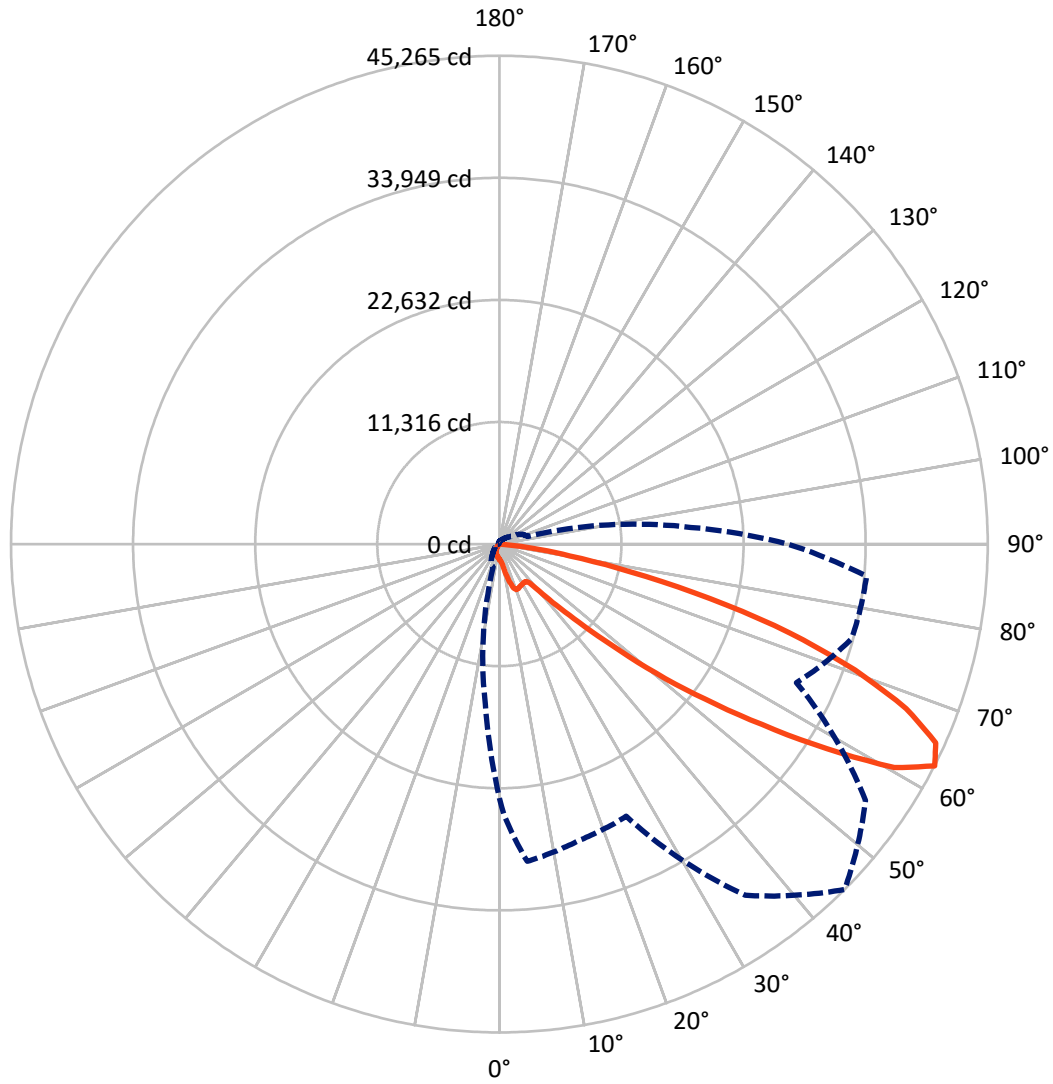
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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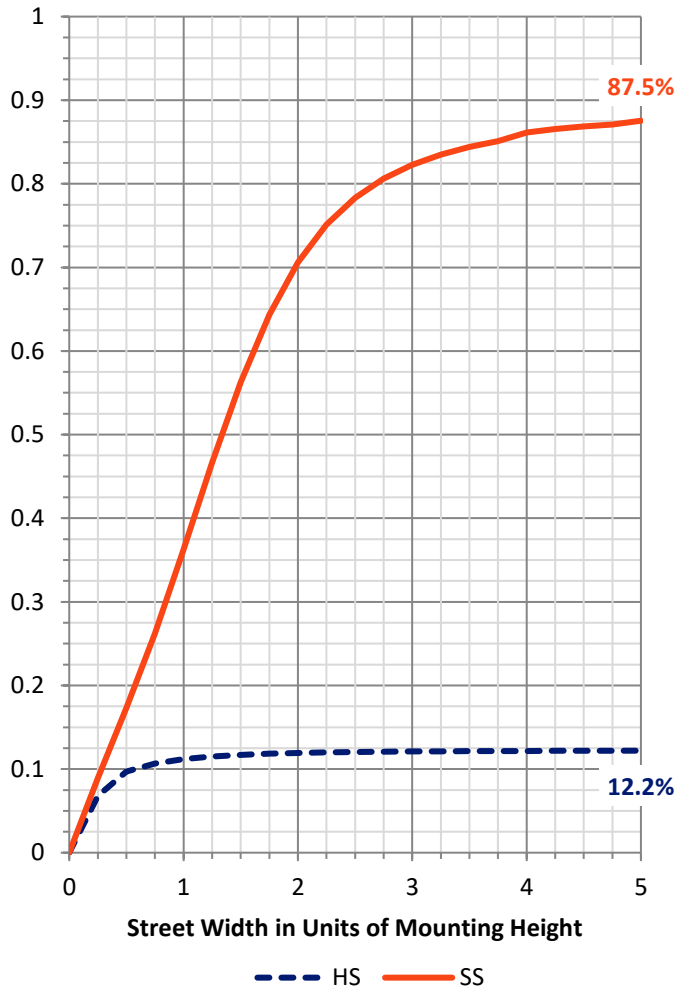
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3381.1	0.0	3381.1
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	24018.8	0.0	24018.8
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	27399.9	0.0	27399.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.4	0.5
10°-20°	477.7	1.7
20°-30°	1038.4	3.8
30°-40°	1704.4	6.2
40°-50°	3133.4	11.4
50°-60°	6729.0	24.6
60°-70°	9038.1	33.0
70°-80°	4706.2	17.2
80°-90°	446.2	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°	27399.9	100.0
0°-180°	27399.9	100.0

**Coefficient of Utilization**



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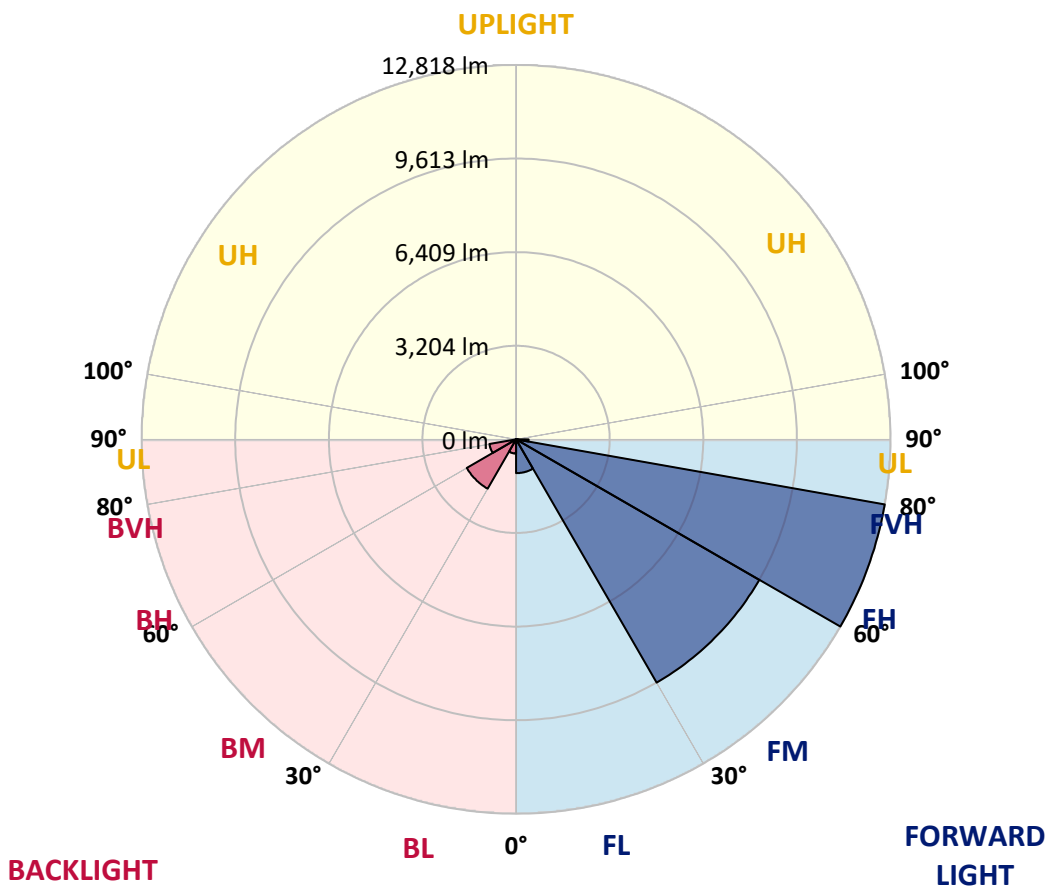
CATALOG NUMBER: GWS-SA6E-735-U-SLR-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1157.5	4.2			
FM (30°-60°)	9617.0	35.1			
FH (60°-80°)	12817.9	46.8			G5
FVH (80°-90°)	426.3	1.6			G3/500
BL (0°-30°)	485.0	1.8	B1/500		
BM (30°-60°)	1949.8	7.1	B2/2500		
BH (60°-80°)	926.5	3.4	B2/1000		G2/1000
BVH (80°-90°)	19.9	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2
2.5°	1452.7	1459.0	1465.4	1487.5	1503.3	1516.0	1519.2	1509.7	1487.5	1465.4	1433.7
5°	1408.4	1414.7	1436.9	1497.0	1557.1	1604.6	1620.4	1611.0	1557.1	1487.5	1414.7
7.5°	1405.2	1417.9	1471.7	1598.3	1728.1	1826.2	1851.5	1829.3	1728.1	1588.8	1440.0
10°	1519.2	1541.3	1620.4	1848.3	2085.7	2259.8	2329.4	2234.4	2073.0	1819.8	1576.1
12.5°	1816.7	1854.7	2006.6	2338.9	2706.0	2937.1	3032.0	2914.9	2661.7	2294.6	1908.5
15°	2285.1	2342.1	2569.9	3066.8	3500.4	3706.1	3737.8	3671.3	3377.0	2971.9	2452.8
17.5°	2946.6	3028.8	3383.3	3889.7	4203.0	4275.8	4266.3	4196.7	3981.5	3703.0	3212.4
20°	3737.8	3835.9	4184.0	4601.8	4633.5	4548.0	4500.5	4459.4	4386.6	4339.1	3956.2
22.5°	4535.4	4655.6	5019.6	5124.0	4839.2	4592.3	4475.2	4506.9	4614.5	4848.7	4693.6
25°	5329.8	5443.7	5785.5	5503.8	4934.1	4522.7	4373.9	4449.9	4706.3	5212.6	5412.0
27.5°	6257.1	6342.5	6545.1	5763.3	4950.0	4465.7	4320.1	4437.2	4750.6	5440.5	6200.1
30°	7222.4	7273.0	7174.9	5833.0	4896.2	4380.3	4266.3	4437.2	4826.5	5592.4	6792.0
32.5°	7931.3	7940.8	7621.2	5839.3	4867.7	4310.6	4215.7	4418.3	4899.3	5719.0	7364.8
35°	8662.4	8615.0	8048.4	5934.3	4943.6	4336.0	4253.7	4472.1	5013.3	5867.8	7868.0
37.5°	9403.0	9317.6	8526.3	6089.3	5139.9	4611.3	4560.7	4747.4	5196.8	6073.5	8421.9
40°	10162.6	10045.5	9023.2	6323.5	5576.6	5548.1	5722.2	5700.1	5700.1	6336.2	8991.6
42.5°	11089.9	10953.8	9757.5	6985.0	6595.7	7231.9	7706.6	7412.3	6867.9	6940.7	9732.2
45°	12314.8	12197.7	11029.8	8251.0	8194.0	9656.2	10295.5	9713.2	8358.6	8336.4	10969.7
47.5°	14273.9	14251.7	13058.5	9719.5	10150.0	12742.0	13976.4	12856.0	10058.2	9814.5	13311.7
50°	17027.4	16960.9	15587.3	11441.2	12476.2	16565.3	18768.1	16900.8	12112.2	11539.4	16448.2
52.5°	20129.0	20198.6	19128.9	13321.2	14948.0	20819.0	23885.8	21534.2	14343.5	13732.7	20394.8
55°	23050.2	23449.0	23167.3	15520.8	17362.8	25515.7	29506.7	26617.1	17106.5	16603.3	24819.4
57.5°	25335.3	26458.9	28433.8	18717.4	20201.8	31010.0	35782.8	32127.3	20331.6	21265.2	30842.3
60°	25461.9	26949.4	31535.4	25404.9	23854.1	35722.6	42049.3	37510.8	25401.8	29180.7	35561.2
62.5°	23553.5	25148.6	29516.2	28443.3	27832.4	39732.6	45264.9	41435.3	30389.7	33817.3	34162.3
65°	21369.6	22980.6	27262.8	24996.7	27370.4	39561.7	44448.4	41527.1	30842.3	30665.1	31658.9
67.5°	18068.6	19515.0	23392.0	22126.1	25227.7	37653.2	40675.8	38909.7	28414.8	28680.7	29123.7
70°	13188.3	14580.9	18179.4	18242.7	22031.1	34213.0	34950.4	34706.7	26167.7	26449.4	25183.4
72.5°	9526.5	10700.6	13805.5	14960.7	17587.6	28690.1	28180.6	29120.6	22452.1	23556.6	20227.1
75°	6848.9	7728.8	10127.8	13014.2	13941.5	21306.4	20173.3	22553.3	18014.8	20284.1	15207.5
77.5°	2778.8	3089.0	3984.7	8766.9	9162.5	14334.0	12349.6	16381.7	12843.3	13327.5	7371.1
80°	113.9	126.6	164.6	4525.9	6282.4	8064.3	6608.4	8757.4	8482.0	5367.7	1740.7
82.5°	12.7	12.7	28.5	1304.0	2750.3	4449.9	3114.3	5044.9	4294.8	2275.6	791.2
85°	3.2	3.2	6.3	148.8	645.6	712.1	420.9	1547.7	1997.1	930.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	28.5	31.6	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°	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2
2.5°	1433.7	1417.9	1398.9	1379.9	1370.4	1345.1	1335.6	1329.3	1322.9	1326.1	1326.1
5°	1386.2	1351.4	1310.3	1269.1	1247.0	1221.7	1209.0	1202.7	1205.8	1218.5	1218.5
7.5°	1379.9	1313.4	1224.8	1171.0	1145.7	1126.7	1114.1	1107.7	1110.9	1126.7	1133.0
10°	1484.4	1367.3	1209.0	1117.2	1088.7	1069.7	1057.1	1047.6	1041.3	1053.9	1057.1
12.5°	1709.1	1547.7	1285.0	1110.9	1060.3	1034.9	1025.4	1006.4	997.0	1003.3	1006.4
15°	2174.3	1895.8	1436.9	1136.2	1034.9	1006.4	990.6	974.8	959.0	955.8	959.0
17.5°	2782.0	2383.2	1667.9	1196.3	1015.9	981.1	959.0	936.8	914.7	911.5	908.3
20°	3535.2	2981.4	1990.7	1291.3	1000.1	959.0	927.3	895.7	867.2	857.7	857.7
22.5°	4222.0	3703.0	2405.4	1408.4	978.0	927.3	889.3	851.4	819.7	803.9	800.7
25°	5060.7	4468.9	2902.2	1544.5	946.3	886.2	845.0	807.1	775.4	756.4	750.1
27.5°	5905.8	5275.9	3465.6	1721.7	908.3	845.0	807.1	772.2	737.4	715.3	708.9
30°	6725.5	6146.3	4098.6	1943.3	879.9	803.9	772.2	737.4	705.8	671.0	661.5
32.5°	7605.3	7035.7	4807.5	2190.1	857.7	775.4	740.6	708.9	667.8	636.2	620.3
35°	8453.5	7953.5	5589.3	2430.7	835.5	750.1	712.1	680.5	636.2	601.3	579.2
37.5°	9308.1	8887.1	6405.8	2576.3	803.9	715.3	680.5	655.1	604.5	563.4	538.0
40°	10213.2	9852.4	7288.8	2516.1	775.4	677.3	658.3	629.8	572.9	525.4	493.7
42.5°	11207.0	10773.4	8187.7	2285.1	750.1	645.6	626.7	598.2	544.4	487.4	446.3
45°	12457.2	11783.1	8925.1	1936.9	762.7	614.0	576.0	569.7	519.0	446.3	395.6
47.5°	14606.2	13333.9	9498.0	1712.2	848.2	579.2	534.9	550.7	496.9	405.1	348.1
50°	17894.5	15903.8	10032.8	1696.4	978.0	563.4	496.9	538.0	474.7	364.0	307.0
52.5°	21027.8	18514.9	10374.7	1835.7	1091.9	604.5	458.9	522.2	458.9	335.5	278.5
55°	24025.0	20021.4	9763.8	1936.9	1199.5	727.9	430.4	496.9	439.9	319.7	269.0
57.5°	27256.4	20692.4	7687.6	2142.7	1275.5	832.4	436.8	458.9	414.6	310.2	265.9
60°	28221.7	19834.7	4639.8	2411.7	1234.3	864.0	484.2	408.3	379.8	291.2	256.4
62.5°	26721.6	17799.6	2737.7	2196.5	1199.5	816.6	553.9	376.6	345.0	265.9	237.4
65°	24477.6	15036.6	1785.0	1854.7	1272.3	727.9	588.7	360.8	313.3	240.5	208.9
67.5°	21914.0	12112.2	1250.1	1095.1	1174.2	655.1	496.9	357.6	281.7	202.6	170.9
70°	18457.9	9070.7	879.9	724.8	978.0	582.3	386.1	348.1	246.9	164.6	132.9
72.5°	14261.2	5677.9	655.1	468.4	696.3	474.7	307.0	294.3	199.4	136.1	101.3
75°	10517.1	3237.7	462.1	338.6	458.9	360.8	227.9	208.9	170.9	129.8	91.8
77.5°	5491.2	1620.4	288.0	259.5	262.7	224.7	164.6	151.9	158.2	129.8	85.5
80°	1053.9	322.8	174.1	189.9	142.4	142.4	120.3	126.6	139.3	104.4	72.8
82.5°	439.9	69.6	94.9	107.6	88.6	98.1	98.1	101.3	98.1	76.0	53.8
85°	0.0	0.0	41.1	44.3	60.1	60.1	50.6	50.6	50.6	44.3	31.6
87.5°	0.0	0.0	0.0	0.0	3.2	9.5	19.0	22.2	25.3	19.0	12.7
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°	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2
2.5°	1322.9	1316.6	1326.1	1332.4	1338.8	1338.8	1332.4	1326.1	1316.6	1326.1	1316.6
5°	1221.7	1231.2	1247.0	1253.3	1259.6	1247.0	1240.7	1221.7	1205.8	1209.0	1202.7
7.5°	1142.5	1152.0	1171.0	1183.7	1183.7	1177.4	1158.4	1139.4	1114.1	1114.1	1110.9
10°	1069.7	1082.4	1104.6	1120.4	1126.7	1120.4	1101.4	1076.1	1053.9	1053.9	1044.4
12.5°	1009.6	1025.4	1050.8	1072.9	1079.2	1072.9	1053.9	1028.6	1003.3	1003.3	997.0
15°	959.0	978.0	1006.4	1031.8	1041.3	1031.8	1009.6	978.0	952.6	955.8	946.3
17.5°	911.5	927.3	965.3	993.8	1003.3	993.8	965.3	924.2	898.8	905.2	898.8
20°	857.7	876.7	914.7	946.3	955.8	946.3	914.7	870.4	845.0	845.0	848.2
22.5°	800.7	819.7	857.7	879.9	892.5	883.0	851.4	810.2	784.9	784.9	788.1
25°	750.1	759.6	788.1	810.2	813.4	803.9	778.6	746.9	727.9	737.4	740.6
27.5°	702.6	702.6	715.3	727.9	724.8	715.3	705.8	680.5	677.3	686.8	696.3
30°	652.0	636.2	629.8	620.3	617.2	614.0	623.5	623.5	629.8	642.5	652.0
32.5°	607.7	576.0	547.5	519.0	503.2	515.9	541.2	563.4	585.5	604.5	614.0
35°	557.0	506.4	458.9	420.9	395.6	414.6	455.8	496.9	534.9	560.2	576.0
37.5°	506.4	433.6	376.6	329.2	310.2	326.0	370.3	427.3	484.2	515.9	538.0
40°	452.6	360.8	294.3	256.4	237.4	253.2	297.5	354.5	430.4	471.6	500.1
42.5°	398.8	297.5	237.4	199.4	189.9	199.4	234.2	291.2	373.5	424.1	462.1
45°	345.0	246.9	189.9	161.4	151.9	161.4	189.9	237.4	319.7	376.6	420.9
47.5°	297.5	208.9	158.2	132.9	126.6	136.1	158.2	199.4	269.0	326.0	376.6
50°	259.5	183.6	136.1	113.9	107.6	117.1	136.1	167.7	227.9	278.5	332.3
52.5°	234.2	170.9	120.3	98.1	94.9	101.3	117.1	142.4	193.1	237.4	288.0
55°	227.9	170.9	110.8	88.6	85.5	91.8	104.4	123.4	167.7	205.7	250.0
57.5°	234.2	183.6	104.4	76.0	72.8	79.1	91.8	107.6	145.6	177.2	218.4
60°	234.2	186.7	91.8	60.1	57.0	63.3	76.0	94.9	129.8	155.1	189.9
62.5°	212.1	170.9	76.0	47.5	41.1	47.5	63.3	79.1	113.9	139.3	167.7
65°	183.6	145.6	63.3	34.8	28.5	34.8	50.6	66.5	98.1	120.3	151.9
67.5°	148.8	110.8	47.5	25.3	19.0	25.3	38.0	53.8	82.3	104.4	136.1
70°	110.8	79.1	38.0	22.2	19.0	22.2	34.8	50.6	72.8	94.9	126.6
72.5°	82.3	53.8	31.6	22.2	15.8	22.2	31.6	47.5	69.6	91.8	120.3
75°	69.6	44.3	28.5	19.0	15.8	19.0	28.5	44.3	63.3	85.5	113.9
77.5°	66.5	41.1	25.3	15.8	12.7	15.8	25.3	38.0	57.0	79.1	110.8
80°	57.0	34.8	22.2	12.7	9.5	12.7	22.2	31.6	44.3	60.1	85.5
82.5°	44.3	28.5	15.8	6.3	3.2	6.3	15.8	19.0	28.5	34.8	50.6
85°	28.5	15.8	6.3	0.0	0.0	0.0	6.3	12.7	12.7	15.8	25.3
87.5°	12.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.3	9.5
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2	1424.2
2.5°	1335.6	1338.8	1345.1	1354.6	1376.7	1395.7	1414.7	1440.0	1452.7	1452.7
5°	1209.0	1212.2	1215.3	1228.0	1259.6	1285.0	1326.1	1376.7	1402.1	1408.4
7.5°	1110.9	1117.2	1123.6	1133.0	1164.7	1199.5	1253.3	1348.3	1395.7	1405.2
10°	1053.9	1063.4	1076.1	1095.1	1123.6	1161.5	1253.3	1424.2	1503.3	1519.2
12.5°	1009.6	1025.4	1038.1	1060.3	1095.1	1155.2	1338.8	1639.4	1778.7	1816.7
15°	965.3	984.3	1003.3	1025.4	1063.4	1177.4	1503.3	2025.6	2256.6	2285.1
17.5°	921.0	943.2	968.5	993.8	1041.3	1231.2	1762.9	2560.4	2883.3	2946.6
20°	870.4	898.8	933.7	965.3	1019.1	1316.6	2123.7	3196.6	3601.7	3737.8
22.5°	816.6	851.4	892.5	933.7	993.8	1421.1	2560.4	3880.2	4446.7	4535.4
25°	772.2	807.1	845.0	886.2	952.6	1547.7	3089.0	4728.4	5244.3	5329.8
27.5°	731.1	765.9	800.7	838.7	911.5	1712.2	3725.1	5630.4	6168.5	6257.1
30°	686.8	727.9	762.7	800.7	873.5	1914.8	4459.4	6630.5	7140.1	7222.4
32.5°	648.8	690.0	724.8	762.7	845.0	2136.3	5231.6	7516.7	7931.3	7931.3
35°	617.2	661.5	686.8	737.4	822.9	2278.8	5962.7	8361.8	8675.1	8662.4
37.5°	582.3	636.2	655.1	690.0	794.4	2294.6	6649.5	9254.3	9485.3	9403.0
40°	547.5	604.5	633.0	652.0	762.7	2164.8	7402.8	10074.0	10270.2	10162.6
42.5°	515.9	560.2	601.3	623.5	743.8	1936.9	8007.3	10950.7	11184.9	11089.9
45°	484.2	522.2	547.5	588.7	756.4	1778.7	8526.3	11973.0	12384.4	12314.8
47.5°	452.6	484.2	500.1	563.4	841.9	1705.9	8842.8	13555.4	14330.8	14273.9
50°	417.8	455.8	455.8	557.0	968.5	1731.2	9118.2	15846.8	17046.3	17027.4
52.5°	383.0	424.1	417.8	604.5	1066.6	1848.3	9431.5	17869.2	19954.9	20129.0
55°	348.1	386.1	392.5	699.5	1123.6	1949.6	8219.3	18720.6	22439.4	23050.2
57.5°	310.2	332.3	408.3	772.2	1104.6	2243.9	5630.4	18875.7	24025.0	25335.3
60°	269.0	288.0	462.1	756.4	1044.4	2073.0	3544.7	17483.1	23800.3	25461.9
62.5°	234.2	265.9	487.4	667.8	1063.4	1797.7	2259.8	14900.5	21657.7	23553.5
65°	205.7	256.4	443.1	604.5	1076.1	1218.5	1525.5	12121.7	19565.6	21369.6
67.5°	183.6	284.8	364.0	538.0	924.2	857.7	1047.6	9418.9	16451.3	18068.6
70°	167.7	291.2	297.5	462.1	715.3	550.7	690.0	6339.4	11340.0	13188.3
72.5°	151.9	215.2	224.7	370.3	462.1	335.5	446.3	3627.0	8266.8	9526.5
75°	145.6	145.6	155.1	240.5	256.4	243.7	288.0	2164.8	5927.9	6848.9
77.5°	136.1	110.8	98.1	155.1	139.3	174.1	170.9	962.1	2569.9	2778.8
80°	107.6	79.1	66.5	98.1	94.9	117.1	101.3	79.1	117.1	113.9
82.5°	66.5	50.6	47.5	60.1	53.8	60.1	47.5	12.7	12.7	12.7
85°	31.6	28.5	25.3	25.3	28.5	25.3	19.0	6.3	3.2	3.2
87.5°	15.8	15.8	12.7	9.5	12.7	12.7	9.5	3.2	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)