

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: P640520

Luminaire Tested: GWS-SA5E-722-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640520  
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-SA5E-722-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

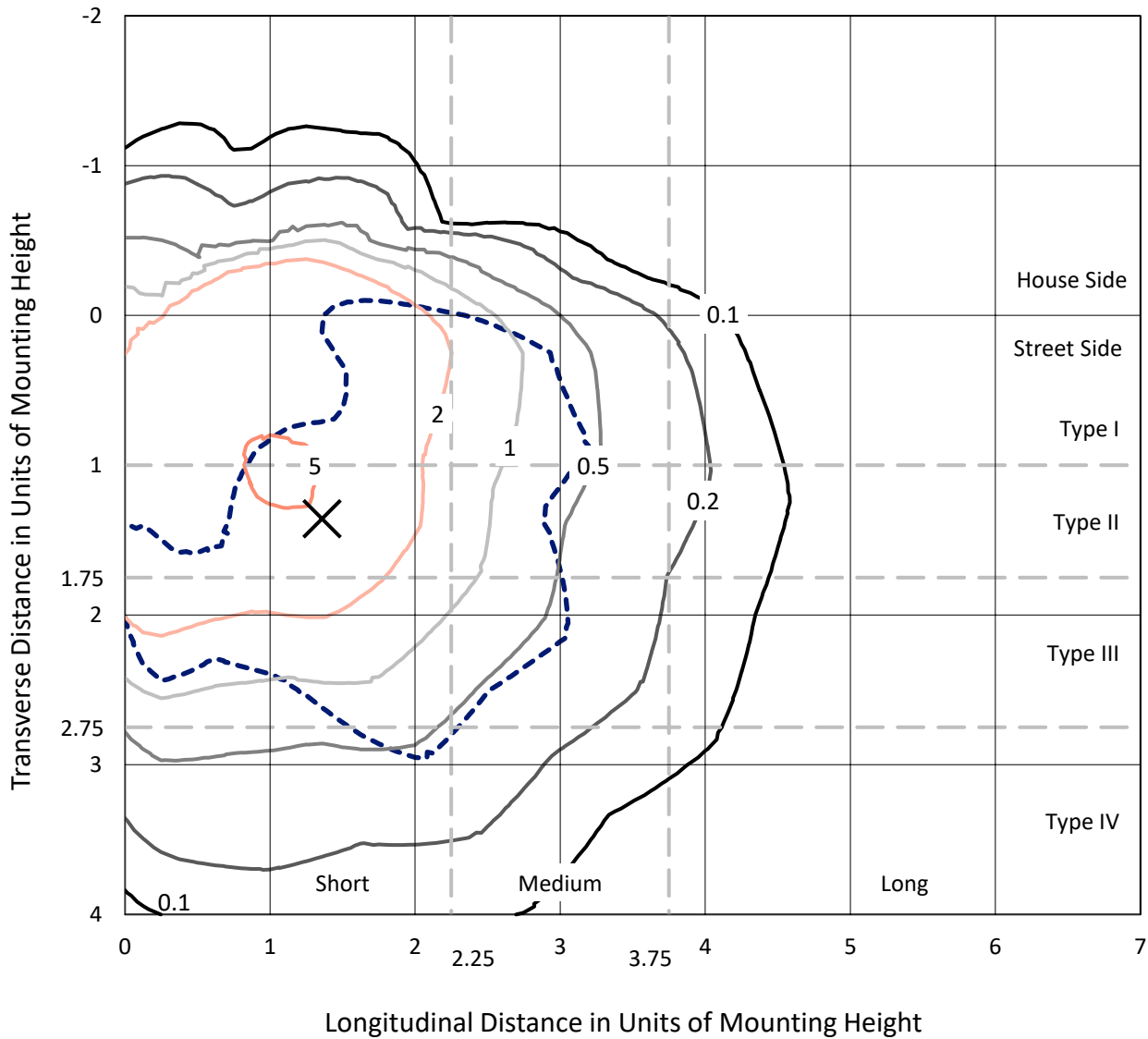
Lumens per Lamp: N/A  
Luminaire Lumens: 17160.9 lumens  
Efficiency: N/A  
Efficacy: 63.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

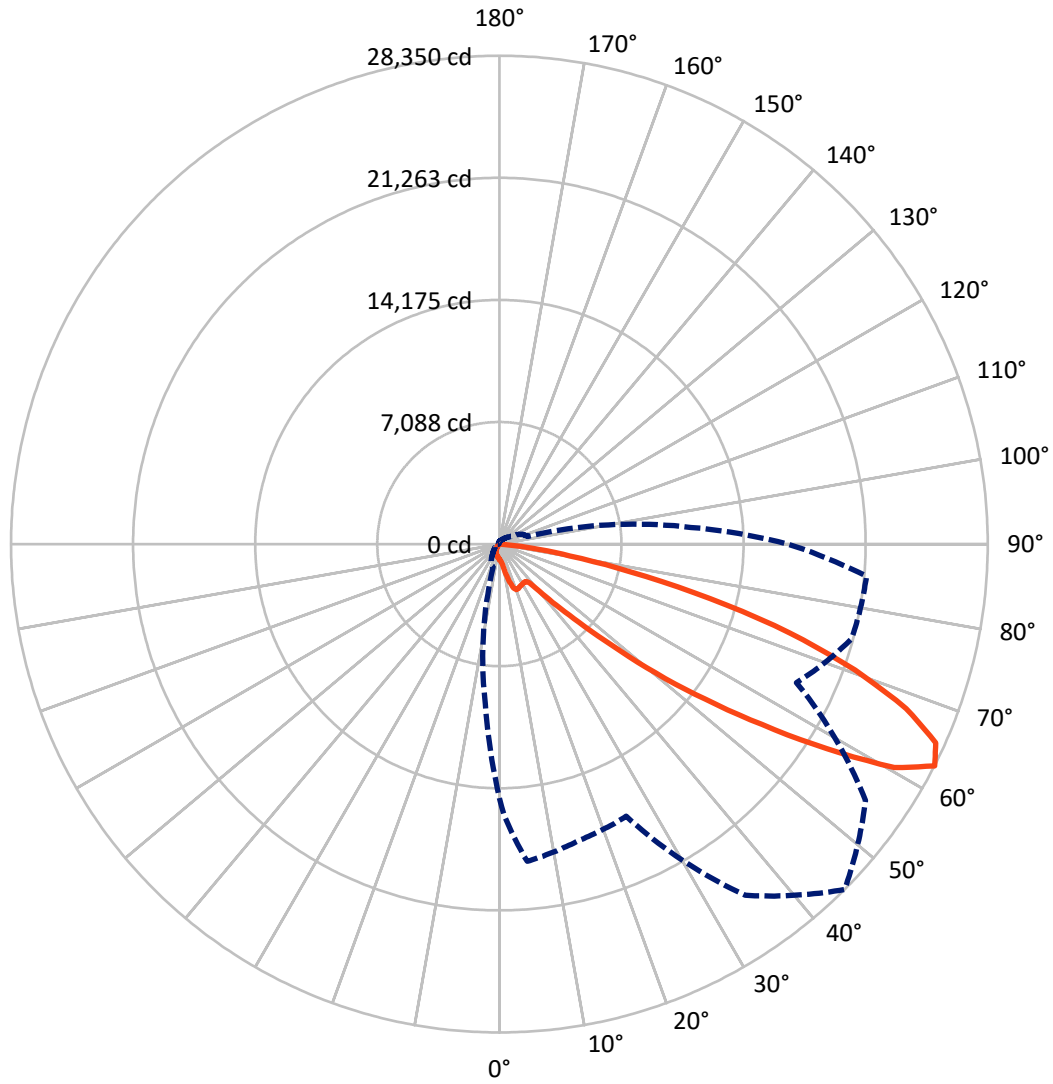
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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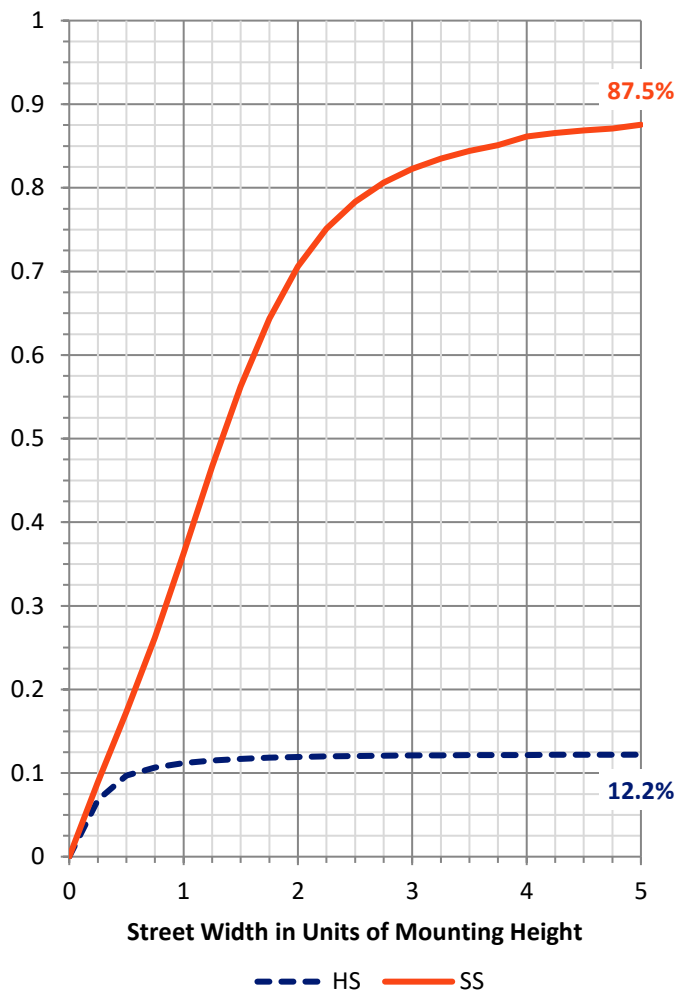
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2117.6	0.0	2117.6
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	15043.3	0.0	15043.3
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	17160.9	0.0	17160.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.1	0.5
10°-20°	299.2	1.7
20°-30°	650.4	3.8
30°-40°	1067.5	6.2
40°-50°	1962.5	11.4
50°-60°	4214.5	24.6
60°-70°	5660.7	33.0
70°-80°	2947.6	17.2
80°-90°	279.5	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°	17160.9	100.0
0°-180°	17160.9	100.0

**Coefficient of Utilization**



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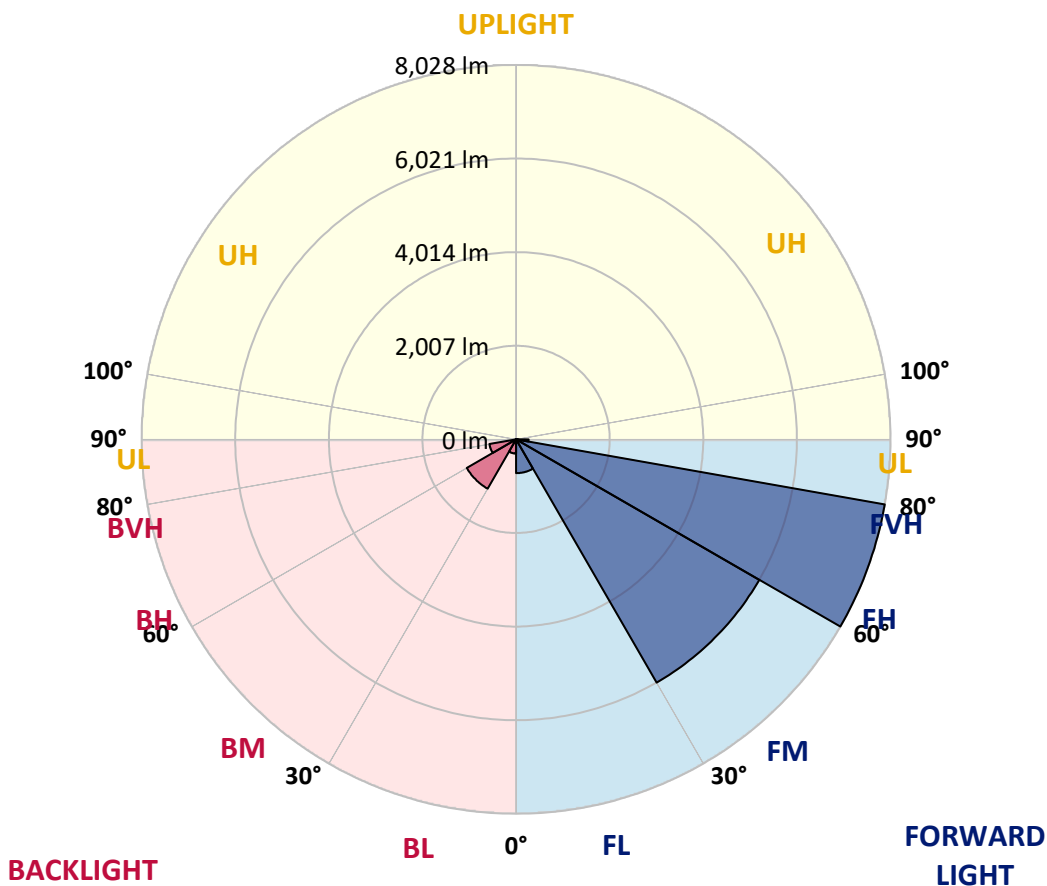
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	725.0	4.2			
FM (30°-60°)	6023.3	35.1			
FH (60°-80°)	8028.0	46.8			G4/12000
FVH (80°-90°)	267.0	1.6			G3/500
BL (0°-30°)	303.8	1.8	B1/500		
BM (30°-60°)	1221.2	7.1	B2/2500		
BH (60°-80°)	580.2	3.4	B2/1000		G2/1000
BVH (80°-90°)	12.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0
2.5°	909.8	913.8	917.8	931.7	941.6	949.5	951.5	945.5	931.7	917.8	898.0
5°	882.1	886.1	899.9	937.6	975.3	1005.0	1014.9	1009.0	975.3	931.7	886.1
7.5°	880.1	888.0	921.7	1001.0	1082.3	1143.8	1159.6	1145.7	1082.3	995.1	901.9
10°	951.5	965.4	1014.9	1157.6	1306.3	1415.3	1458.9	1399.5	1298.4	1139.8	987.2
12.5°	1137.8	1161.6	1256.7	1464.9	1694.8	1839.5	1899.0	1825.6	1667.1	1437.1	1195.3
15°	1431.2	1466.9	1609.6	1920.8	2192.4	2321.2	2341.0	2299.4	2115.0	1861.3	1536.2
17.5°	1845.5	1897.0	2119.0	2436.2	2632.4	2678.0	2672.1	2628.4	2493.7	2319.2	2012.0
20°	2341.0	2402.5	2620.5	2882.2	2902.0	2848.5	2818.7	2793.0	2747.4	2717.6	2477.8
22.5°	2840.5	2915.9	3143.8	3209.2	3030.8	2876.2	2802.9	2822.7	2890.1	3036.8	2939.7
25°	3338.1	3409.5	3623.5	3447.1	3090.3	2832.6	2739.5	2787.0	2947.6	3264.7	3389.6
27.5°	3918.9	3972.4	4099.3	3609.7	3100.2	2796.9	2705.8	2779.1	2975.3	3407.5	3883.2
30°	4523.5	4555.2	4493.7	3653.3	3066.5	2743.4	2672.1	2779.1	3022.9	3502.6	4253.9
32.5°	4967.5	4973.4	4773.2	3657.2	3048.7	2699.8	2640.3	2767.2	3068.5	3581.9	4612.7
35°	5425.4	5395.7	5040.8	3716.7	3096.3	2715.7	2664.1	2800.9	3139.9	3675.1	4927.8
37.5°	5889.2	5835.7	5340.2	3813.8	3219.2	2888.1	2856.4	2973.4	3254.8	3803.9	5274.7
40°	6365.0	6291.6	5651.4	3960.5	3492.7	3474.9	3583.9	3570.0	3570.0	3968.4	5631.5
42.5°	6945.8	6860.5	6111.2	4374.8	4131.0	4529.4	4826.8	4642.4	4301.5	4347.1	6095.4
45°	7712.9	7639.5	6908.1	5167.7	5132.0	6047.8	6448.2	6083.5	5235.1	5221.2	6870.4
47.5°	8939.9	8926.0	8178.7	6087.5	6357.0	7980.5	8753.6	8051.9	6299.6	6146.9	8337.3
50°	10664.4	10622.8	9762.5	7165.8	7814.0	10375.0	11754.7	10585.2	7586.0	7227.2	10301.7
52.5°	12607.0	12650.7	11980.7	8343.2	9362.1	13039.2	14960.0	13487.2	8983.5	8600.9	12773.5
55°	14436.6	14686.4	14510.0	9720.9	10874.6	15980.8	18480.4	16670.6	10714.0	10398.8	15544.7
57.5°	15867.8	16571.5	17808.4	11723.0	12652.6	19422.0	22411.2	20121.7	12733.9	13318.7	19316.9
60°	15947.1	16878.8	19751.0	15911.4	14940.1	22373.5	26336.0	23493.5	15909.5	18276.2	22272.4
62.5°	14751.8	15750.9	18486.4	17814.4	17431.8	24885.0	28350.0	25951.5	19033.5	21180.2	21396.3
65°	13384.1	14393.0	17075.0	15655.7	17142.4	24778.0	27838.6	26009.0	19316.9	19205.9	19828.3
67.5°	11316.6	12222.5	14650.7	13857.8	15800.4	23582.7	25475.7	24369.6	17796.5	17963.1	18240.6
70°	8260.0	9132.2	11386.0	11425.6	13798.4	21428.0	21889.9	21737.2	16389.2	16565.6	15772.7
72.5°	5966.5	6702.0	8646.5	9370.0	11015.3	17969.0	17649.9	18238.6	14062.0	14753.8	12668.5
75°	4289.6	4840.6	6343.2	8151.0	8731.8	13344.4	12634.8	14125.4	11282.9	12704.2	9524.7
77.5°	1740.4	1934.7	2495.6	5490.8	5738.6	8977.6	7734.7	10260.1	8043.9	8347.2	4616.6
80°	71.4	79.3	103.1	2834.6	3934.7	5050.7	4138.9	5484.9	5312.4	3361.9	1090.2
82.5°	7.9	7.9	17.8	816.7	1722.6	2787.0	1950.5	3159.7	2689.9	1425.2	495.6
85°	2.0	2.0	4.0	93.2	404.4	446.0	263.6	969.3	1250.8	582.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	17.8	19.8	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°	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0
2.5°	898.0	888.0	876.1	864.3	858.3	842.5	836.5	832.5	828.6	830.6	830.6
5°	868.2	846.4	820.6	794.9	781.0	765.1	757.2	753.3	755.2	763.2	763.2
7.5°	864.3	822.6	767.1	733.4	717.6	705.7	697.7	693.8	695.8	705.7	709.6
10°	929.7	856.3	757.2	699.7	681.9	670.0	662.1	656.1	652.2	660.1	662.1
12.5°	1070.4	969.3	804.8	695.8	664.1	648.2	642.2	630.4	624.4	628.4	630.4
15°	1361.8	1187.4	899.9	711.6	648.2	630.4	620.4	610.5	600.6	598.6	600.6
17.5°	1742.4	1492.6	1044.6	749.3	636.3	614.5	600.6	586.7	572.9	570.9	568.9
20°	2214.2	1867.3	1246.8	808.8	626.4	600.6	580.8	561.0	543.1	537.2	537.2
22.5°	2644.3	2319.2	1506.5	882.1	612.5	580.8	557.0	533.2	513.4	503.5	501.5
25°	3169.6	2798.9	1817.7	967.3	592.7	555.0	529.3	505.5	485.6	473.8	469.8
27.5°	3698.9	3304.4	2170.6	1078.3	568.9	529.3	505.5	483.7	461.9	448.0	444.0
30°	4212.3	3849.5	2567.0	1217.1	551.1	503.5	483.7	461.9	442.0	420.2	414.3
32.5°	4763.3	4406.5	3011.0	1371.7	537.2	485.6	463.8	444.0	418.3	398.4	388.5
35°	5294.6	4981.4	3500.6	1522.4	523.3	469.8	446.0	426.2	398.4	376.6	362.7
37.5°	5829.8	5566.1	4012.1	1613.5	503.5	448.0	426.2	410.3	378.6	352.8	337.0
40°	6396.7	6170.7	4565.1	1575.9	485.6	424.2	412.3	394.5	358.8	329.1	309.2
42.5°	7019.1	6747.5	5128.1	1431.2	469.8	404.4	392.5	374.6	340.9	305.3	279.5
45°	7802.1	7379.9	5589.9	1213.1	477.7	384.6	360.8	356.8	325.1	279.5	247.8
47.5°	9148.0	8351.2	5948.7	1072.4	531.2	362.7	335.0	344.9	311.2	253.7	218.0
50°	11207.6	9960.8	6283.7	1062.5	612.5	352.8	311.2	337.0	297.3	228.0	192.3
52.5°	13170.0	11596.1	6497.8	1149.7	683.9	378.6	287.4	327.1	287.4	210.1	174.4
55°	15047.2	12539.6	6115.2	1213.1	751.3	455.9	269.6	311.2	275.5	200.2	168.5
57.5°	17071.0	12959.9	4814.9	1342.0	798.8	521.3	273.5	287.4	259.7	194.3	166.5
60°	17675.6	12422.7	2906.0	1510.5	773.1	541.2	303.3	255.7	237.9	182.4	160.6
62.5°	16736.0	11148.1	1714.6	1375.7	751.3	511.4	346.9	235.9	216.1	166.5	148.7
65°	15330.6	9417.6	1118.0	1161.6	796.9	455.9	368.7	226.0	196.2	150.7	130.8
67.5°	13725.0	7586.0	783.0	685.9	735.4	410.3	311.2	224.0	176.4	126.9	107.0
70°	11560.4	5681.1	551.1	453.9	612.5	364.7	241.8	218.0	154.6	103.1	83.3
72.5°	8932.0	3556.1	410.3	293.4	436.1	297.3	192.3	184.3	124.9	85.2	63.4
75°	6587.0	2027.8	289.4	212.1	287.4	226.0	142.7	130.8	107.0	81.3	57.5
77.5°	3439.2	1014.9	180.4	162.5	164.5	140.7	103.1	95.1	99.1	81.3	53.5
80°	660.1	202.2	109.0	118.9	89.2	89.2	75.3	79.3	87.2	65.4	45.6
82.5°	275.5	43.6	59.5	67.4	55.5	61.4	61.4	63.4	61.4	47.6	33.7
85°	0.0	0.0	25.8	27.8	37.7	37.7	31.7	31.7	31.7	27.8	19.8
87.5°	0.0	0.0	0.0	0.0	2.0	5.9	11.9	13.9	15.9	11.9	7.9
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°	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0
2.5°	828.6	824.6	830.6	834.5	838.5	838.5	834.5	830.6	824.6	830.6	824.6
5°	765.1	771.1	781.0	785.0	788.9	781.0	777.0	765.1	755.2	757.2	753.3
7.5°	715.6	721.5	733.4	741.4	741.4	737.4	725.5	713.6	697.7	697.7	695.8
10°	670.0	677.9	691.8	701.7	705.7	701.7	689.8	674.0	660.1	660.1	654.1
12.5°	632.3	642.2	658.1	672.0	675.9	672.0	660.1	644.2	628.4	628.4	624.4
15°	600.6	612.5	630.4	646.2	652.2	646.2	632.3	612.5	596.7	598.6	592.7
17.5°	570.9	580.8	604.6	622.4	628.4	622.4	604.6	578.8	563.0	566.9	563.0
20°	537.2	549.1	572.9	592.7	598.6	592.7	572.9	545.1	529.3	529.3	531.2
22.5°	501.5	513.4	537.2	551.1	559.0	553.0	533.2	507.5	491.6	491.6	493.6
25°	469.8	475.7	493.6	507.5	509.4	503.5	487.6	467.8	455.9	461.9	463.8
27.5°	440.1	440.1	448.0	455.9	453.9	448.0	442.0	426.2	424.2	430.1	436.1
30°	408.3	398.4	394.5	388.5	386.5	384.6	390.5	390.5	394.5	402.4	408.3
32.5°	380.6	360.8	342.9	325.1	315.2	323.1	339.0	352.8	366.7	378.6	384.6
35°	348.9	317.2	287.4	263.6	247.8	259.7	285.4	311.2	335.0	350.9	360.8
37.5°	317.2	271.6	235.9	206.2	194.3	204.2	231.9	267.6	303.3	323.1	337.0
40°	283.5	226.0	184.3	160.6	148.7	158.6	186.3	222.0	269.6	295.4	313.2
42.5°	249.8	186.3	148.7	124.9	118.9	124.9	146.7	182.4	233.9	265.6	289.4
45°	216.1	154.6	118.9	101.1	95.1	101.1	118.9	148.7	200.2	235.9	263.6
47.5°	186.3	130.8	99.1	83.3	79.3	85.2	99.1	124.9	168.5	204.2	235.9
50°	162.5	115.0	85.2	71.4	67.4	73.3	85.2	105.1	142.7	174.4	208.1
52.5°	146.7	107.0	75.3	61.4	59.5	63.4	73.3	89.2	120.9	148.7	180.4
55°	142.7	107.0	69.4	55.5	53.5	57.5	65.4	77.3	105.1	128.8	156.6
57.5°	146.7	115.0	65.4	47.6	45.6	49.6	57.5	67.4	91.2	111.0	136.8
60°	146.7	117.0	57.5	37.7	35.7	39.6	47.6	59.5	81.3	97.1	118.9
62.5°	132.8	107.0	47.6	29.7	25.8	29.7	39.6	49.6	71.4	87.2	105.1
65°	115.0	91.2	39.6	21.8	17.8	21.8	31.7	41.6	61.4	75.3	95.1
67.5°	93.2	69.4	29.7	15.9	11.9	15.9	23.8	33.7	51.5	65.4	85.2
70°	69.4	49.6	23.8	13.9	11.9	13.9	21.8	31.7	45.6	59.5	79.3
72.5°	51.5	33.7	19.8	13.9	9.9	13.9	19.8	29.7	43.6	57.5	75.3
75°	43.6	27.8	17.8	11.9	9.9	11.9	17.8	27.8	39.6	53.5	71.4
77.5°	41.6	25.8	15.9	9.9	7.9	9.9	15.9	23.8	35.7	49.6	69.4
80°	35.7	21.8	13.9	7.9	5.9	7.9	13.9	19.8	27.8	37.7	53.5
82.5°	27.8	17.8	9.9	4.0	2.0	4.0	9.9	11.9	17.8	21.8	31.7
85°	17.8	9.9	4.0	0.0	0.0	0.0	4.0	7.9	7.9	9.9	15.9
87.5°	7.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.0	5.9
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°	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0
2.5°	836.5	838.5	842.5	848.4	862.3	874.2	886.1	901.9	909.8	909.8
5°	757.2	759.2	761.2	769.1	788.9	804.8	830.6	862.3	878.1	882.1
7.5°	695.8	699.7	703.7	709.6	729.5	751.3	785.0	844.4	874.2	880.1
10°	660.1	666.0	674.0	685.9	703.7	727.5	785.0	892.0	941.6	951.5
12.5°	632.3	642.2	650.2	664.1	685.9	723.5	838.5	1026.8	1114.0	1137.8
15°	604.6	616.5	628.4	642.2	666.0	737.4	941.6	1268.6	1413.3	1431.2
17.5°	576.8	590.7	606.6	622.4	652.2	771.1	1104.1	1603.6	1805.8	1845.5
20°	545.1	563.0	584.8	604.6	638.3	824.6	1330.1	2002.1	2255.8	2341.0
22.5°	511.4	533.2	559.0	584.8	622.4	890.0	1603.6	2430.2	2785.0	2840.5
25°	483.7	505.5	529.3	555.0	596.7	969.3	1934.7	2961.5	3284.6	3338.1
27.5°	457.9	479.7	501.5	525.3	570.9	1072.4	2333.1	3526.4	3863.4	3918.9
30°	430.1	455.9	477.7	501.5	547.1	1199.3	2793.0	4152.8	4471.9	4523.5
32.5°	406.4	432.1	453.9	477.7	529.3	1338.0	3276.6	4707.8	4967.5	4967.5
35°	386.5	414.3	430.1	461.9	515.4	1427.2	3734.5	5237.1	5433.3	5425.4
37.5°	364.7	398.4	410.3	432.1	497.5	1437.1	4164.7	5796.1	5940.8	5889.2
40°	342.9	378.6	396.4	408.3	477.7	1355.9	4636.5	6309.5	6432.4	6365.0
42.5°	323.1	350.9	376.6	390.5	465.8	1213.1	5015.1	6858.5	7005.2	6945.8
45°	303.3	327.1	342.9	368.7	473.8	1114.0	5340.2	7498.8	7756.5	7712.9
47.5°	283.5	303.3	313.2	352.8	527.3	1068.4	5538.4	8489.9	8975.6	8939.9
50°	261.7	285.4	285.4	348.9	606.6	1084.3	5710.8	9925.1	10676.3	10664.4
52.5°	239.9	265.6	261.7	378.6	668.0	1157.6	5907.1	11191.7	12498.0	12607.0
55°	218.0	241.8	245.8	438.1	703.7	1221.1	5147.9	11724.9	14054.1	14436.6
57.5°	194.3	208.1	255.7	483.7	691.8	1405.4	3526.4	11822.1	15047.2	15867.8
60°	168.5	180.4	289.4	473.8	654.1	1298.4	2220.1	10949.9	14906.4	15947.1
62.5°	146.7	166.5	305.3	418.3	666.0	1125.9	1415.3	9332.4	13564.5	14751.8
65°	128.8	160.6	277.5	378.6	674.0	763.2	955.4	7592.0	12254.2	13384.1
67.5°	115.0	178.4	228.0	337.0	578.8	537.2	656.1	5899.1	10303.7	11316.6
70°	105.1	182.4	186.3	289.4	448.0	344.9	432.1	3970.4	7102.4	8260.0
72.5°	95.1	134.8	140.7	231.9	289.4	210.1	279.5	2271.6	5177.6	5966.5
75°	91.2	91.2	97.1	150.7	160.6	152.6	180.4	1355.9	3712.7	4289.6
77.5°	85.2	69.4	61.4	97.1	87.2	109.0	107.0	602.6	1609.6	1740.4
80°	67.4	49.6	41.6	61.4	59.5	73.3	63.4	49.6	73.3	71.4
82.5°	41.6	31.7	29.7	37.7	33.7	37.7	29.7	7.9	7.9	7.9
85°	19.8	17.8	15.9	15.9	17.8	15.9	11.9	4.0	2.0	2.0
87.5°	9.9	9.9	7.9	5.9	7.9	7.9	5.9	2.0	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)