

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: P633425

Luminaire Tested: GWS-SA2E-760-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633425  
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-SA2E-760-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

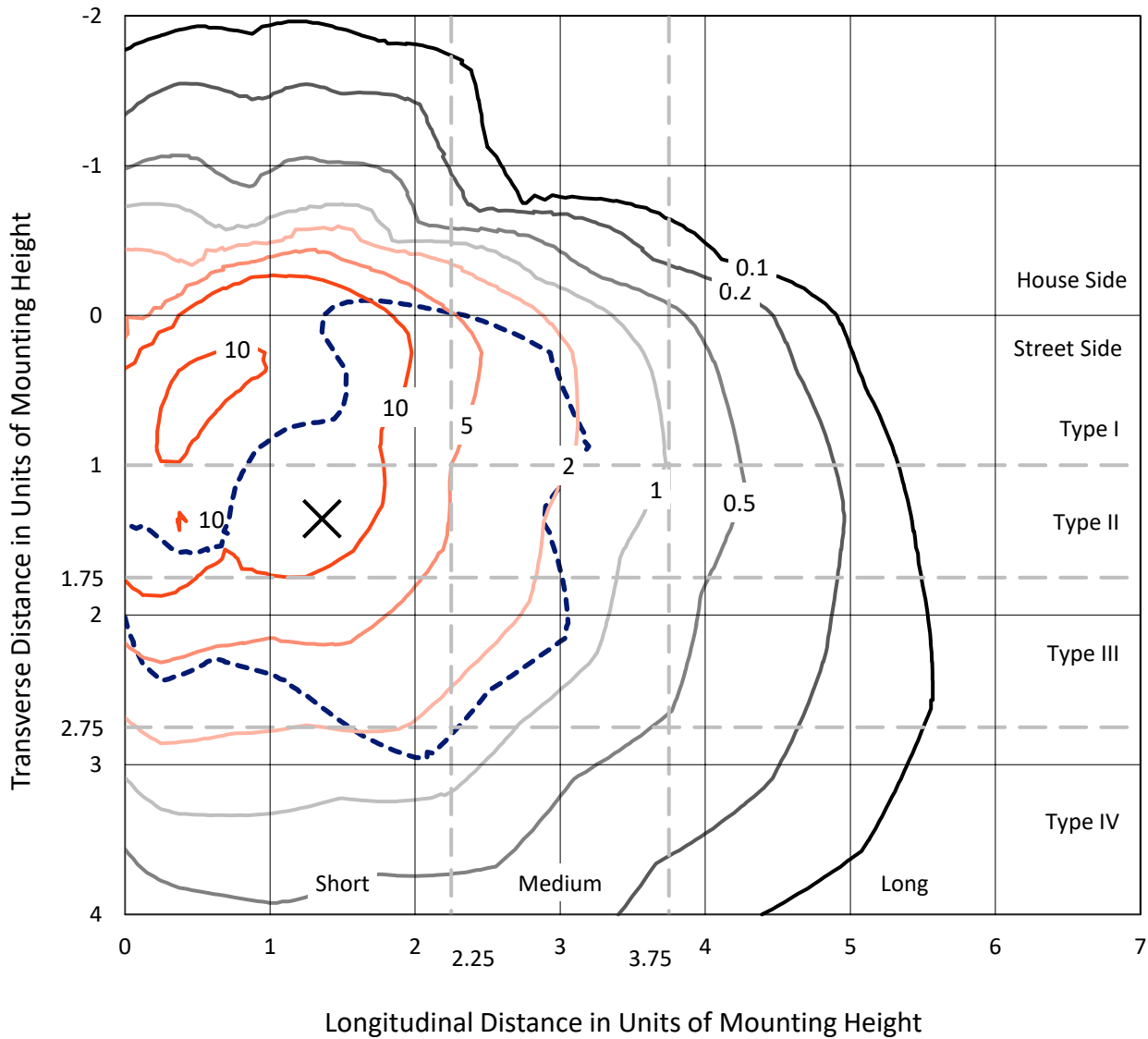
Lumens per Lamp: N/A  
Luminaire Lumens: 9135.7 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

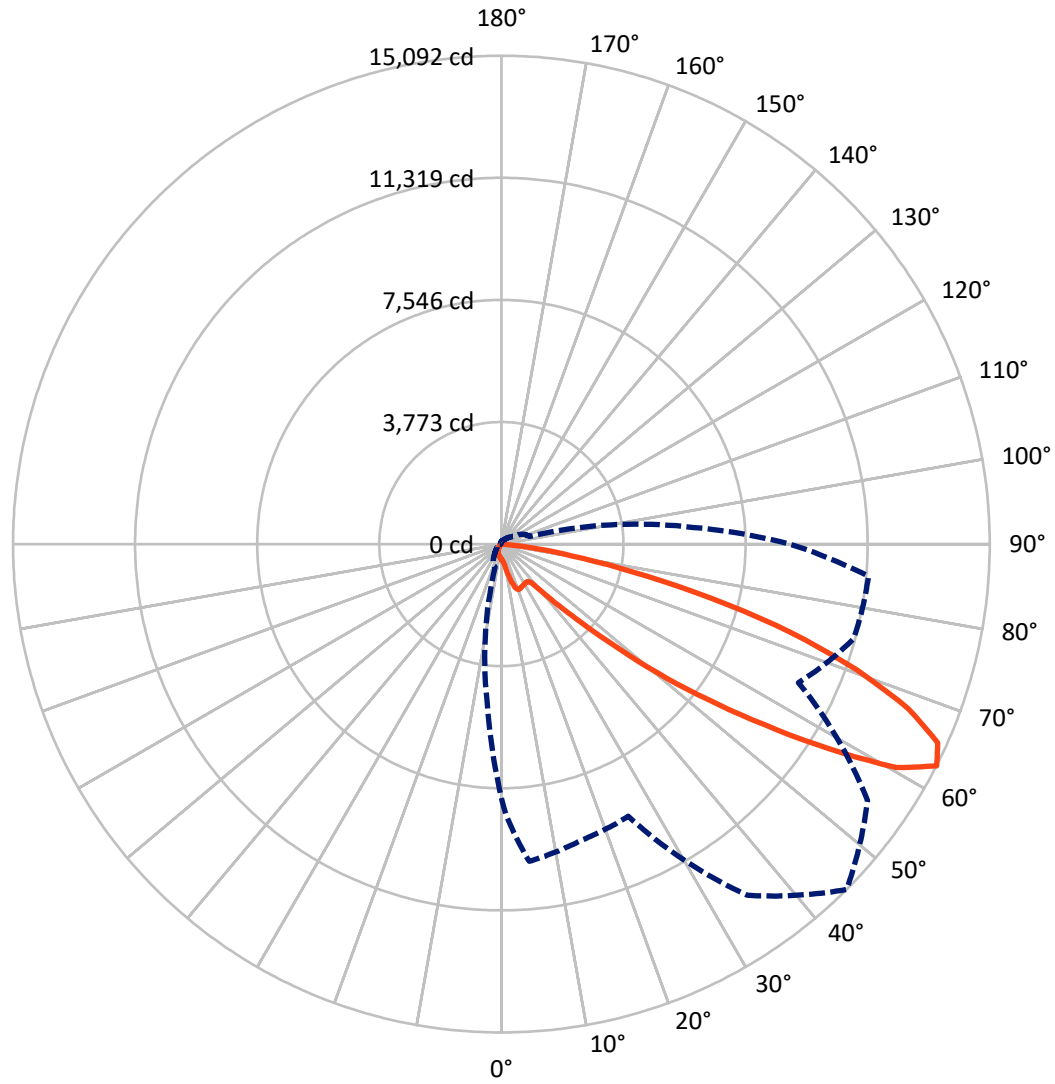
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.6 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	1127.3	0.0	1127.3
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	8008.4	0.0	8008.4
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	9135.7	0.0	9135.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.1	0.5
10°-20°	159.3	1.7
20°-30°	346.2	3.8
30°-40°	568.3	6.2
40°-50°	1044.7	11.4
50°-60°	2243.6	24.6
60°-70°	3013.5	33.0
70°-80°	1569.2	17.2
80°-90°	148.8	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°	9135.7	100.0
0°-180°	9135.7	100.0

**Coefficient of Utilization**



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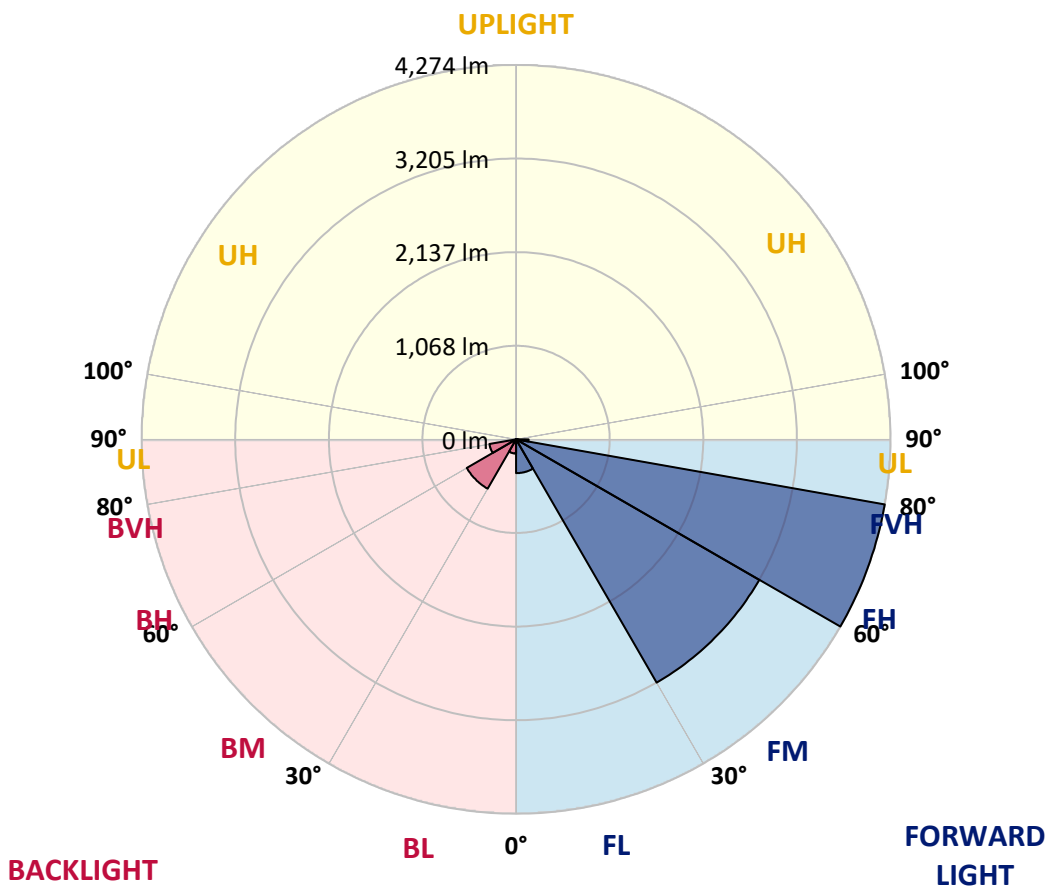
CATALOG NUMBER: GWS-SA2E-760-U-SLR-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.9	4.2			
FM (30°-60°)	3206.5	35.1			
FH (60°-80°)	4273.8	46.8			G2/5000
FVH (80°-90°)	142.1	1.6			G2/225
BL (0°-30°)	161.7	1.8	B1/500		
BM (30°-60°)	650.1	7.1	B1/1000		
BH (60°-80°)	308.9	3.4	B1/500		G1/500
BVH (80°-90°)	6.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	474.9	474.9	474.9	474.9	474.9	474.9	474.9	474.9	474.9	474.9	474.9
2.5°	484.4	486.5	488.6	496.0	501.2	505.5	506.5	503.4	496.0	488.6	478.0
5°	469.6	471.7	479.1	499.1	519.2	535.0	540.3	537.1	519.2	496.0	471.7
7.5°	468.5	472.8	490.7	532.9	576.2	608.9	617.3	609.9	576.2	529.7	480.1
10°	506.5	513.9	540.3	616.3	695.4	753.5	776.7	745.0	691.2	606.8	525.5
12.5°	605.7	618.4	669.0	779.8	902.2	979.3	1010.9	971.9	887.5	765.1	636.3
15°	761.9	780.9	856.9	1022.5	1167.1	1235.7	1246.3	1224.1	1126.0	990.9	817.8
17.5°	982.4	1009.9	1128.1	1296.9	1401.4	1425.7	1422.5	1399.3	1327.5	1234.6	1071.1
20°	1246.3	1279.0	1395.0	1534.3	1544.9	1516.4	1500.6	1486.9	1462.6	1446.8	1319.1
22.5°	1512.2	1552.3	1673.6	1708.5	1613.5	1531.2	1492.1	1502.7	1538.6	1616.7	1564.9
25°	1777.1	1815.0	1929.0	1835.1	1645.1	1508.0	1458.4	1483.7	1569.2	1738.0	1804.5
27.5°	2086.2	2114.7	2182.3	1921.6	1650.4	1489.0	1440.4	1479.5	1583.9	1814.0	2067.2
30°	2408.1	2425.0	2392.3	1944.8	1632.5	1460.5	1422.5	1479.5	1609.3	1864.6	2264.6
32.5°	2644.5	2647.6	2541.1	1946.9	1623.0	1437.3	1405.6	1473.1	1633.5	1906.8	2455.6
35°	2888.2	2872.4	2683.5	1978.6	1648.3	1445.7	1418.3	1491.1	1671.5	1956.4	2623.4
37.5°	3135.2	3106.7	2842.9	2030.3	1713.7	1537.5	1520.6	1582.9	1732.7	2025.0	2808.0
40°	3388.4	3349.4	3008.5	2108.4	1859.4	1849.9	1907.9	1900.5	1900.5	2112.6	2998.0
42.5°	3697.6	3652.2	3253.4	2328.9	2199.2	2411.3	2569.5	2471.4	2289.9	2314.2	3244.9
45°	4106.0	4067.0	3677.6	2751.1	2732.1	3219.6	3432.7	3238.6	2786.9	2779.5	3657.5
47.5°	4759.2	4751.8	4354.0	3240.7	3384.2	4248.5	4660.0	4286.4	3353.6	3272.3	4438.4
50°	5677.3	5655.1	5197.1	3814.8	4159.8	5523.2	6257.7	5635.1	4038.5	3847.5	5484.2
52.5°	6711.4	6734.6	6378.0	4441.6	4984.0	6941.5	7964.0	7180.0	4782.4	4578.8	6800.1
55°	7685.4	7818.4	7724.5	5175.0	5789.1	8507.5	9838.2	8874.7	5703.7	5535.9	8275.3
57.5°	8447.3	8821.9	9480.4	6240.8	6735.7	10339.4	11930.7	10711.9	6779.0	7090.3	10283.5
60°	8489.5	8985.5	10514.6	8470.5	7953.5	11910.7	14020.1	12506.9	8469.5	9729.5	11856.9
62.5°	7853.2	8385.1	9841.3	9483.6	9279.9	13247.7	15092.3	13815.4	10132.6	11275.4	11390.4
65°	7125.1	7662.2	9090.0	8334.4	9125.9	13190.7	14820.0	13846.0	10283.5	10224.4	10555.7
67.5°	6024.5	6506.7	7799.4	7377.3	8411.4	12554.4	13562.1	12973.3	9474.1	9562.7	9710.5
70°	4397.3	4861.6	6061.4	6082.5	7345.6	11407.3	11653.2	11571.9	8724.9	8818.8	8396.7
72.5°	3176.3	3567.8	4603.0	4988.2	5864.1	9565.9	9396.0	9709.4	7486.0	7854.3	6744.1
75°	2283.6	2576.9	3376.8	4339.2	4648.4	7104.0	6726.2	7519.8	6006.5	6763.1	5070.5
77.5°	926.5	1029.9	1328.6	2923.1	3055.0	4779.3	4117.6	5462.0	4282.2	4443.7	2457.7
80°	38.0	42.2	54.9	1509.0	2094.7	2688.8	2203.4	2919.9	2828.1	1789.7	580.4
82.5°	4.2	4.2	9.5	434.8	917.0	1483.7	1038.4	1682.1	1432.0	758.7	263.8
85°	1.1	1.1	2.1	49.6	215.3	237.4	140.3	516.0	665.9	310.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	9.5	10.6	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°	474.9	474.9	474.9	474.9	474.9	474.9	474.9	474.9	474.9	474.9	474.9
2.5°	478.0	472.8	466.4	460.1	456.9	448.5	445.3	443.2	441.1	442.2	442.2
5°	462.2	450.6	436.9	423.2	415.8	407.3	403.1	401.0	402.1	406.3	406.3
7.5°	460.1	437.9	408.4	390.4	382.0	375.7	371.5	369.3	370.4	375.7	377.8
10°	494.9	455.9	403.1	372.5	363.0	356.7	352.5	349.3	347.2	351.4	352.5
12.5°	569.8	516.0	428.4	370.4	353.5	345.1	341.9	335.6	332.4	334.5	335.6
15°	725.0	632.1	479.1	378.8	345.1	335.6	330.3	325.0	319.7	318.7	319.7
17.5°	927.6	794.6	556.1	398.9	338.7	327.1	319.7	312.4	305.0	303.9	302.9
20°	1178.7	994.1	663.8	430.5	333.5	319.7	309.2	298.6	289.1	286.0	286.0
22.5°	1407.7	1234.6	802.0	469.6	326.1	309.2	296.5	283.9	273.3	268.0	267.0
25°	1687.4	1490.0	967.7	515.0	315.5	295.5	281.8	269.1	258.5	252.2	250.1
27.5°	1969.1	1759.1	1155.5	574.1	302.9	281.8	269.1	257.5	245.9	238.5	236.4
30°	2242.4	2049.3	1366.6	647.9	293.4	268.0	257.5	245.9	235.3	223.7	220.5
32.5°	2535.8	2345.8	1602.9	730.2	286.0	258.5	246.9	236.4	222.7	212.1	206.8
35°	2818.6	2651.9	1863.6	810.4	278.6	250.1	237.4	226.9	212.1	200.5	193.1
37.5°	3103.5	2963.2	2135.8	859.0	268.0	238.5	226.9	218.4	201.6	187.8	179.4
40°	3405.3	3285.0	2430.3	838.9	258.5	225.8	219.5	210.0	191.0	175.2	164.6
42.5°	3736.7	3592.1	2729.9	761.9	250.1	215.3	208.9	199.4	181.5	162.5	148.8
45°	4153.5	3928.7	2975.8	645.8	254.3	204.7	192.1	189.9	173.1	148.8	131.9
47.5°	4870.0	4445.8	3166.8	570.9	282.8	193.1	178.3	183.6	165.7	135.1	116.1
50°	5966.4	5302.7	3345.2	565.6	326.1	187.8	165.7	179.4	158.3	121.4	102.4
52.5°	7011.1	6173.2	3459.1	612.0	364.1	201.6	153.0	174.1	153.0	111.9	92.9
55°	8010.4	6675.5	3255.5	645.8	399.9	242.7	143.5	165.7	146.7	106.6	89.7
57.5°	9087.9	6899.3	2563.2	714.4	425.3	277.5	145.6	153.0	138.2	103.4	88.6
60°	9409.7	6613.3	1547.0	804.1	411.5	288.1	161.5	136.1	126.6	97.1	85.5
62.5°	8909.5	5934.8	912.8	732.3	399.9	272.3	184.7	125.6	115.0	88.6	79.1
65°	8161.3	5013.5	595.2	618.4	424.2	242.7	196.3	120.3	104.5	80.2	69.6
67.5°	7306.6	4038.5	416.8	365.1	391.5	218.4	165.7	119.2	93.9	67.5	57.0
70°	6154.3	3024.4	293.4	241.7	326.1	194.2	128.7	116.1	82.3	54.9	44.3
72.5°	4755.0	1893.1	218.4	156.2	232.2	158.3	102.4	98.1	66.5	45.4	33.8
75°	3506.6	1079.5	154.1	112.9	153.0	120.3	76.0	69.6	57.0	43.3	30.6
77.5°	1830.9	540.3	96.0	86.5	87.6	74.9	54.9	50.7	52.8	43.3	28.5
80°	351.4	107.6	58.0	63.3	47.5	47.5	40.1	42.2	46.4	34.8	24.3
82.5°	146.7	23.2	31.7	35.9	29.5	32.7	32.7	33.8	32.7	25.3	17.9
85°	0.0	0.0	13.7	14.8	20.0	20.0	16.9	16.9	16.9	14.8	10.6
87.5°	0.0	0.0	0.0	0.0	1.1	3.2	6.3	7.4	8.4	6.3	4.2
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°	474.9	474.9	474.9	474.9	474.9	474.9	474.9	474.9	474.9	474.9	474.9
2.5°	441.1	439.0	442.2	444.3	446.4	446.4	444.3	442.2	439.0	442.2	439.0
5°	407.3	410.5	415.8	417.9	420.0	415.8	413.7	407.3	402.1	403.1	401.0
7.5°	380.9	384.1	390.4	394.7	394.7	392.6	386.2	379.9	371.5	371.5	370.4
10°	356.7	360.9	368.3	373.6	375.7	373.6	367.2	358.8	351.4	351.4	348.2
12.5°	336.6	341.9	350.3	357.7	359.8	357.7	351.4	343.0	334.5	334.5	332.4
15°	319.7	326.1	335.6	344.0	347.2	344.0	336.6	326.1	317.6	318.7	315.5
17.5°	303.9	309.2	321.9	331.4	334.5	331.4	321.9	308.1	299.7	301.8	299.7
20°	286.0	292.3	305.0	315.5	318.7	315.5	305.0	290.2	281.8	281.8	282.8
22.5°	267.0	273.3	286.0	293.4	297.6	294.4	283.9	270.1	261.7	261.7	262.8
25°	250.1	253.3	262.8	270.1	271.2	268.0	259.6	249.0	242.7	245.9	246.9
27.5°	234.3	234.3	238.5	242.7	241.7	238.5	235.3	226.9	225.8	229.0	232.2
30°	217.4	212.1	210.0	206.8	205.8	204.7	207.9	207.9	210.0	214.2	217.4
32.5°	202.6	192.1	182.6	173.1	167.8	172.0	180.4	187.8	195.2	201.6	204.7
35°	185.7	168.8	153.0	140.3	131.9	138.2	152.0	165.7	178.3	186.8	192.1
37.5°	168.8	144.6	125.6	109.7	103.4	108.7	123.5	142.5	161.5	172.0	179.4
40°	150.9	120.3	98.1	85.5	79.1	84.4	99.2	118.2	143.5	157.2	166.7
42.5°	133.0	99.2	79.1	66.5	63.3	66.5	78.1	97.1	124.5	141.4	154.1
45°	115.0	82.3	63.3	53.8	50.7	53.8	63.3	79.1	106.6	125.6	140.3
47.5°	99.2	69.6	52.8	44.3	42.2	45.4	52.8	66.5	89.7	108.7	125.6
50°	86.5	61.2	45.4	38.0	35.9	39.0	45.4	55.9	76.0	92.9	110.8
52.5°	78.1	57.0	40.1	32.7	31.7	33.8	39.0	47.5	64.4	79.1	96.0
55°	76.0	57.0	36.9	29.5	28.5	30.6	34.8	41.2	55.9	68.6	83.4
57.5°	78.1	61.2	34.8	25.3	24.3	26.4	30.6	35.9	48.5	59.1	72.8
60°	78.1	62.3	30.6	20.0	19.0	21.1	25.3	31.7	43.3	51.7	63.3
62.5°	70.7	57.0	25.3	15.8	13.7	15.8	21.1	26.4	38.0	46.4	55.9
65°	61.2	48.5	21.1	11.6	9.5	11.6	16.9	22.2	32.7	40.1	50.7
67.5°	49.6	36.9	15.8	8.4	6.3	8.4	12.7	17.9	27.4	34.8	45.4
70°	36.9	26.4	12.7	7.4	6.3	7.4	11.6	16.9	24.3	31.7	42.2
72.5°	27.4	17.9	10.6	7.4	5.3	7.4	10.6	15.8	23.2	30.6	40.1
75°	23.2	14.8	9.5	6.3	5.3	6.3	9.5	14.8	21.1	28.5	38.0
77.5°	22.2	13.7	8.4	5.3	4.2	5.3	8.4	12.7	19.0	26.4	36.9
80°	19.0	11.6	7.4	4.2	3.2	4.2	7.4	10.6	14.8	20.0	28.5
82.5°	14.8	9.5	5.3	2.1	1.1	2.1	5.3	6.3	9.5	11.6	16.9
85°	9.5	5.3	2.1	0.0	0.0	0.0	2.1	4.2	4.2	5.3	8.4
87.5°	4.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	3.2
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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 CATALOG NUMBER: GWS-SA2E-760-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	474.9	474.9	474.9	474.9	474.9	474.9	474.9	474.9	474.9	474.9
2.5°	445.3	446.4	448.5	451.6	459.0	465.4	471.7	480.1	484.4	484.4
5°	403.1	404.2	405.2	409.4	420.0	428.4	442.2	459.0	467.5	469.6
7.5°	370.4	372.5	374.6	377.8	388.3	399.9	417.9	449.5	465.4	468.5
10°	351.4	354.6	358.8	365.1	374.6	387.3	417.9	474.9	501.2	506.5
12.5°	336.6	341.9	346.1	353.5	365.1	385.2	446.4	546.6	593.1	605.7
15°	321.9	328.2	334.5	341.9	354.6	392.6	501.2	675.4	752.4	761.9
17.5°	307.1	314.5	322.9	331.4	347.2	410.5	587.8	853.7	961.3	982.4
20°	290.2	299.7	311.3	321.9	339.8	439.0	708.1	1065.8	1200.9	1246.3
22.5°	272.3	283.9	297.6	311.3	331.4	473.8	853.7	1293.7	1482.6	1512.2
25°	257.5	269.1	281.8	295.5	317.6	516.0	1029.9	1576.6	1748.6	1777.1
27.5°	243.8	255.4	267.0	279.6	303.9	570.9	1242.0	1877.3	2056.7	2086.2
30°	229.0	242.7	254.3	267.0	291.3	638.4	1486.9	2210.8	2380.7	2408.1
32.5°	216.3	230.0	241.7	254.3	281.8	712.3	1744.3	2506.2	2644.5	2644.5
35°	205.8	220.5	229.0	245.9	274.4	759.8	1988.1	2788.0	2892.5	2888.2
37.5°	194.2	212.1	218.4	230.0	264.9	765.1	2217.1	3085.6	3162.6	3135.2
40°	182.6	201.6	211.1	217.4	254.3	721.8	2468.2	3358.9	3424.3	3388.4
42.5°	172.0	186.8	200.5	207.9	248.0	645.8	2669.8	3651.2	3729.3	3697.6
45°	161.5	174.1	182.6	196.3	252.2	593.1	2842.9	3992.0	4129.2	4106.0
47.5°	150.9	161.5	166.7	187.8	280.7	568.8	2948.4	4519.7	4778.2	4759.2
50°	139.3	152.0	152.0	185.7	322.9	577.2	3040.2	5283.7	5683.6	5677.3
52.5°	127.7	141.4	139.3	201.6	355.6	616.3	3144.7	5958.0	6653.4	6711.4
55°	116.1	128.7	130.9	233.2	374.6	650.0	2740.5	6241.8	7481.8	7685.4
57.5°	103.4	110.8	136.1	257.5	368.3	748.2	1877.3	6293.5	8010.4	8447.3
60°	89.7	96.0	154.1	252.2	348.2	691.2	1181.9	5829.2	7935.5	8489.5
62.5°	78.1	88.6	162.5	222.7	354.6	599.4	753.5	4968.1	7221.1	7853.2
65°	68.6	85.5	147.7	201.6	358.8	406.3	508.6	4041.6	6523.6	7125.1
67.5°	61.2	95.0	121.4	179.4	308.1	286.0	349.3	3140.4	5485.2	6024.5
70°	55.9	97.1	99.2	154.1	238.5	183.6	230.0	2113.7	3781.0	4397.3
72.5°	50.7	71.8	74.9	123.5	154.1	111.9	148.8	1209.3	2756.3	3176.3
75°	48.5	48.5	51.7	80.2	85.5	81.3	96.0	721.8	1976.5	2283.6
77.5°	45.4	36.9	32.7	51.7	46.4	58.0	57.0	320.8	856.9	926.5
80°	35.9	26.4	22.2	32.7	31.7	39.0	33.8	26.4	39.0	38.0
82.5°	22.2	16.9	15.8	20.0	17.9	20.0	15.8	4.2	4.2	4.2
85°	10.6	9.5	8.4	8.4	9.5	8.4	6.3	2.1	1.1	1.1
87.5°	5.3	5.3	4.2	3.2	4.2	4.2	3.2	1.1	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

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