

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: P636890

Luminaire Tested: GWS-SA4B-760-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636890
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-SA4B-760-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9062.6 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

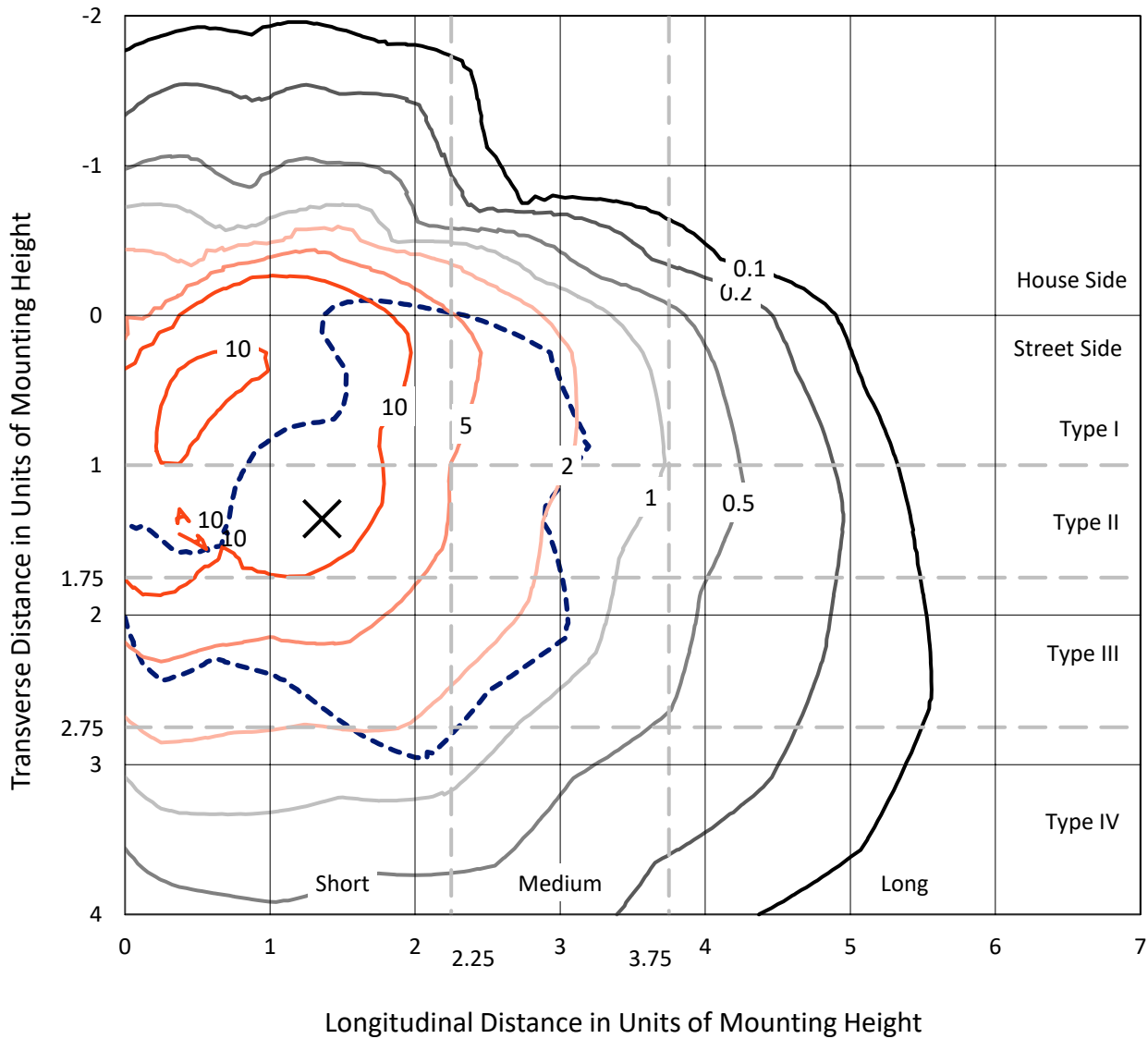
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

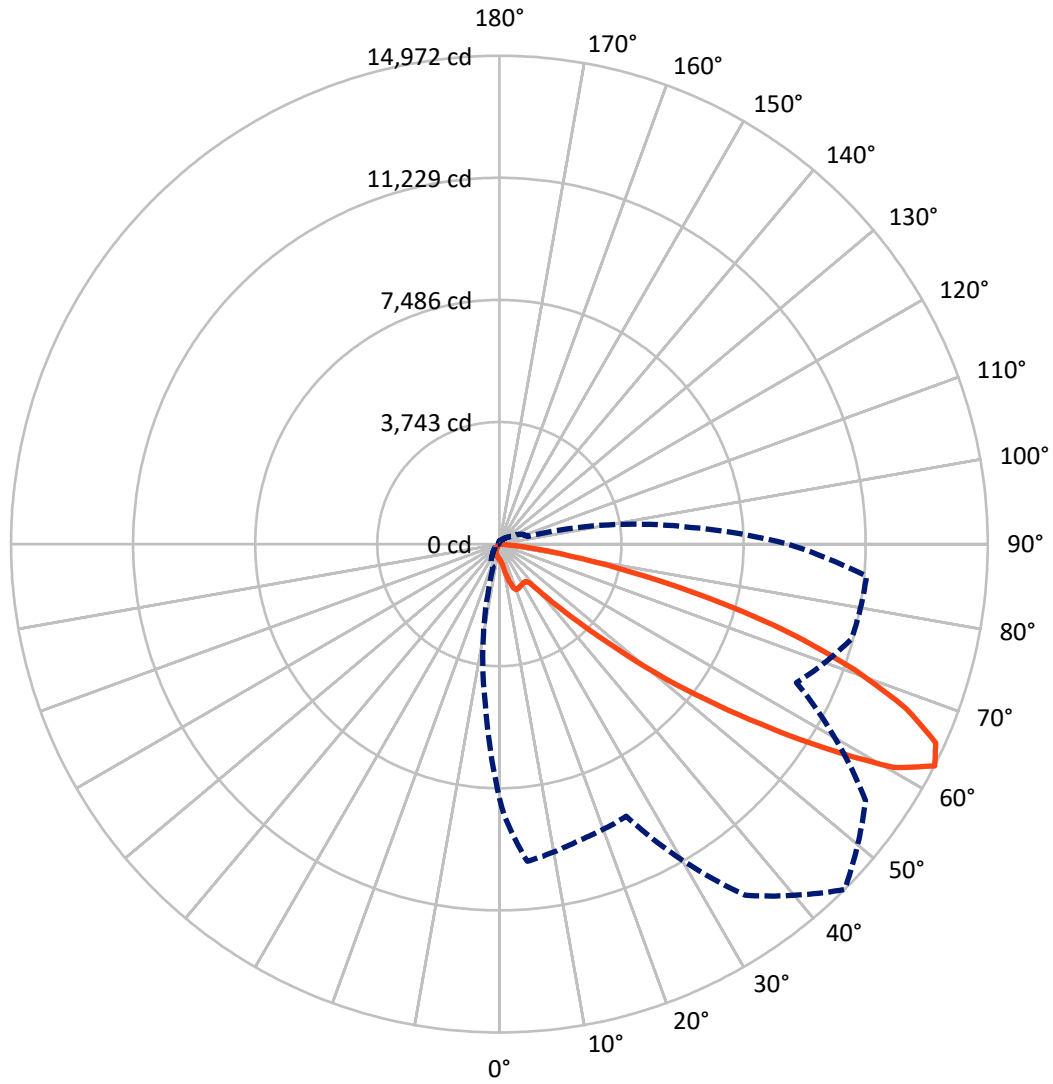
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 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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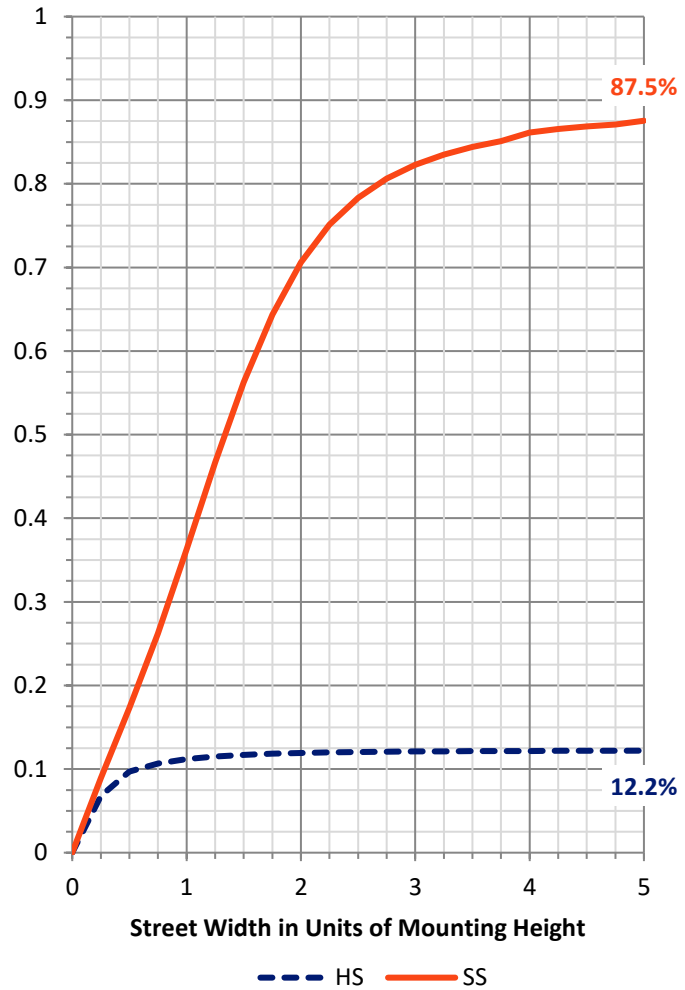
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1118.3	0.0	1118.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	7944.3	0.0	7944.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	9062.6	0.0	9062.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	0.5
10°-20°	158.0	1.7
20°-30°	343.5	3.8
30°-40°	563.7	6.2
40°-50°	1036.4	11.4
50°-60°	2225.6	24.6
60°-70°	2989.4	33.0
70°-80°	1556.6	17.2
80°-90°	147.6	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°	9062.6	100.0
0°-180°	9062.6	100.0

Coefficient of Utilization

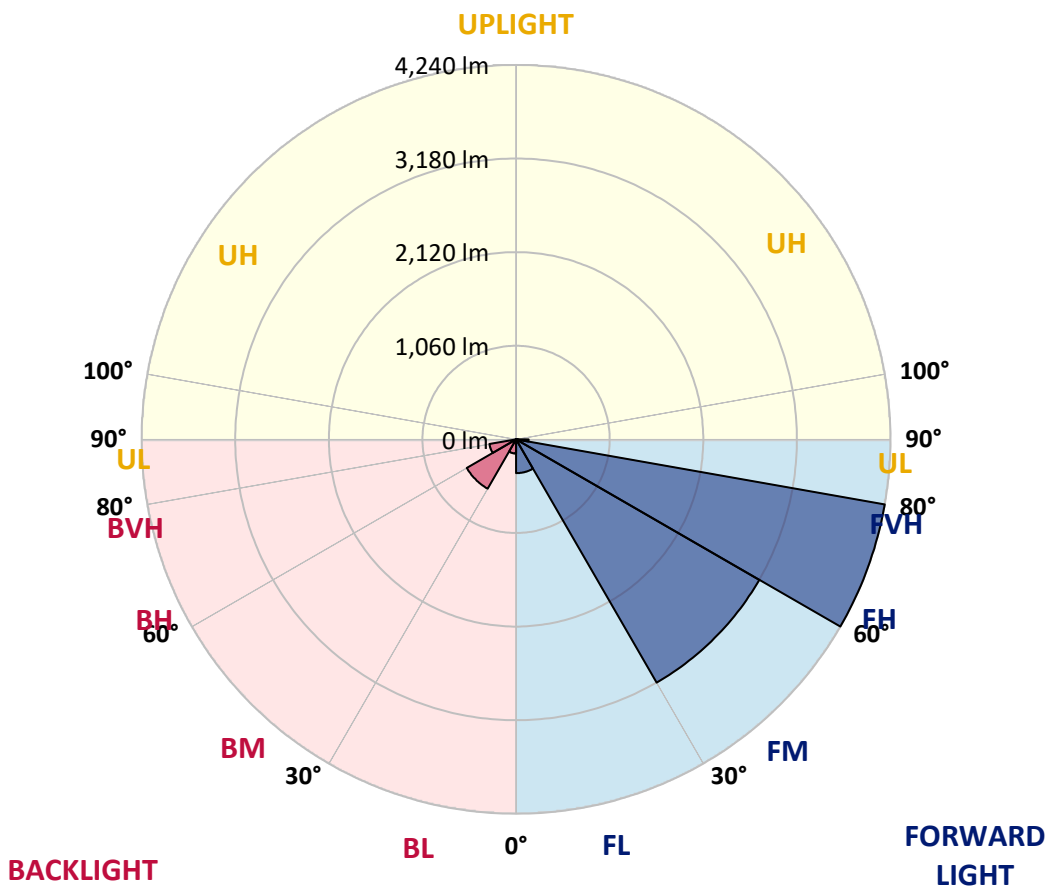


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	382.8	4.2			
FM (30°-60°)	3180.9	35.1			
FH (60°-80°)	4239.6	46.8			G2/5000
FVH (80°-90°)	141.0	1.6			G2/225
BL (0°-30°)	160.4	1.8	B1/500		
BM (30°-60°)	644.9	7.1	B1/1000		
BH (60°-80°)	306.4	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°	471.1	471.1	471.1	471.1	471.1	471.1	471.1	471.1	471.1	471.1	471.1
2.5°	480.5	482.6	484.7	492.0	497.2	501.4	502.5	499.3	492.0	484.7	474.2
5°	465.8	467.9	475.3	495.1	515.0	530.7	536.0	532.8	515.0	492.0	467.9
7.5°	464.8	469.0	486.8	528.6	571.6	604.0	612.4	605.1	571.6	525.5	476.3
10°	502.5	509.8	536.0	611.3	689.8	747.4	770.5	739.0	685.7	601.9	521.3
12.5°	600.9	613.4	663.7	773.6	895.0	971.4	1002.8	964.1	880.4	758.9	631.2
15°	755.8	774.6	850.0	1014.4	1157.8	1225.8	1236.3	1214.3	1116.9	983.0	811.3
17.5°	974.6	1001.8	1119.0	1286.5	1390.2	1414.2	1411.1	1388.1	1316.9	1224.8	1062.5
20°	1236.3	1268.7	1383.9	1522.1	1532.5	1504.3	1488.6	1475.0	1450.9	1435.2	1308.5
22.5°	1500.1	1539.9	1660.2	1694.8	1600.6	1518.9	1480.2	1490.7	1526.3	1603.7	1552.4
25°	1762.8	1800.5	1913.6	1820.4	1632.0	1495.9	1446.7	1471.8	1556.6	1724.1	1790.0
27.5°	2069.5	2097.8	2164.8	1906.2	1637.2	1477.1	1428.9	1467.6	1571.3	1799.5	2050.7
30°	2388.8	2405.6	2373.1	1929.3	1619.4	1448.8	1411.1	1467.6	1596.4	1849.7	2246.5
32.5°	2623.3	2626.5	2520.7	1931.4	1610.0	1425.8	1394.4	1461.3	1620.5	1891.6	2435.9
35°	2865.1	2849.4	2662.0	1962.8	1635.1	1434.1	1406.9	1479.1	1658.2	1940.8	2602.4
37.5°	3110.1	3081.8	2820.1	2014.1	1700.0	1525.2	1508.5	1570.2	1718.9	2008.8	2785.6
40°	3361.3	3322.6	2984.5	2091.5	1844.5	1835.1	1892.6	1885.3	1885.3	2095.7	2974.0
42.5°	3668.0	3623.0	3227.3	2310.3	2181.6	2392.0	2549.0	2451.6	2271.6	2295.7	3218.9
45°	4073.1	4034.4	3648.1	2729.0	2710.2	3193.8	3405.3	3212.7	2764.6	2757.3	3628.3
47.5°	4721.1	4713.8	4319.1	3214.8	3357.1	4214.5	4622.7	4252.2	3326.8	3246.2	4402.9
50°	5631.8	5609.9	5155.6	3784.2	4126.5	5479.0	6207.6	5590.0	4006.2	3816.7	5440.3
52.5°	6657.7	6680.8	6326.9	4406.0	4944.1	6885.9	7900.3	7122.5	4744.2	4542.1	6745.7
55°	7623.9	7755.8	7662.7	5133.6	5742.8	8439.4	9759.4	8803.7	5658.0	5491.6	8209.1
57.5°	8379.7	8751.4	9404.6	6190.8	6681.8	10256.7	11835.3	10626.2	6724.7	7033.5	10201.2
60°	8421.6	8913.6	10430.4	8402.8	7889.8	11815.4	13907.9	12406.8	8401.7	9651.6	11762.0
62.5°	7790.4	8318.0	9762.6	9407.7	9205.7	13141.7	14971.5	13704.9	10051.5	11185.2	11299.3
65°	7068.1	7600.9	9017.2	8267.7	9052.8	13085.2	14701.4	13735.2	10201.2	10142.6	10471.3
67.5°	5976.3	6454.6	7737.0	7318.3	8344.1	12453.9	13453.6	12869.5	9398.3	9486.2	9632.8
70°	4362.1	4822.7	6012.9	6033.8	7286.9	11316.0	11559.9	11479.3	8655.0	8748.2	8329.5
72.5°	3150.9	3539.3	4566.2	4948.3	5817.1	9489.4	9320.8	9631.7	7426.1	7791.4	6690.2
75°	2265.3	2556.3	3349.8	4304.5	4611.2	7047.1	6672.4	7459.6	5958.5	6709.0	5029.9
77.5°	919.1	1021.7	1317.9	2899.7	3030.5	4741.0	4084.7	5418.3	4248.0	4408.1	2438.0
80°	37.7	41.9	54.4	1496.9	2077.9	2667.3	2185.7	2896.5	2805.5	1775.4	575.7
82.5°	4.2	4.2	9.4	431.3	909.7	1471.8	1030.1	1668.6	1420.5	752.7	261.7
85°	1.0	1.0	2.1	49.2	213.5	235.5	139.2	511.9	660.5	307.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	9.4	10.5	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°	471.1	471.1	471.1	471.1	471.1	471.1	471.1	471.1	471.1	471.1	471.1
2.5°	474.2	469.0	462.7	456.4	453.3	444.9	441.8	439.7	437.6	438.6	438.6
5°	458.5	447.0	433.4	419.8	412.4	404.1	399.9	397.8	398.8	403.0	403.0
7.5°	456.4	434.4	405.1	387.3	378.9	372.7	368.5	366.4	367.4	372.7	374.8
10°	491.0	452.2	399.9	369.5	360.1	353.8	349.6	346.5	344.4	348.6	349.6
12.5°	565.3	511.9	425.0	367.4	350.7	342.3	339.2	332.9	329.7	331.8	332.9
15°	719.2	627.0	475.3	375.8	342.3	332.9	327.7	322.4	317.2	316.1	317.2
17.5°	920.1	788.2	551.7	395.7	336.0	324.5	317.2	309.9	302.5	301.5	300.4
20°	1169.3	986.1	658.4	427.1	330.8	317.2	306.7	296.2	286.8	283.7	283.7
22.5°	1396.4	1224.8	795.6	465.8	323.5	306.7	294.2	281.6	271.1	265.9	264.8
25°	1673.9	1478.1	959.9	510.8	313.0	293.1	279.5	266.9	256.5	250.2	248.1
27.5°	1953.4	1745.0	1146.3	569.5	300.4	279.5	266.9	255.4	243.9	236.6	234.5
30°	2224.5	2032.9	1355.6	642.7	291.0	265.9	255.4	243.9	233.4	221.9	218.8
32.5°	2515.5	2327.1	1590.1	724.4	283.7	256.5	245.0	234.5	220.9	210.4	205.2
35°	2796.0	2630.6	1848.7	804.0	276.4	248.1	235.5	225.1	210.4	198.9	191.6
37.5°	3078.7	2939.4	2118.7	852.1	265.9	236.6	225.1	216.7	199.9	186.3	178.0
40°	3378.1	3258.7	2410.8	832.2	256.5	224.0	217.7	208.3	189.5	173.8	163.3
42.5°	3706.8	3563.3	2708.1	755.8	248.1	213.5	207.3	197.8	180.1	161.2	147.6
45°	4120.3	3897.3	2952.0	640.6	252.3	203.1	190.5	188.4	171.7	147.6	130.9
47.5°	4831.0	4410.2	3141.5	566.3	280.5	191.6	176.9	182.1	164.3	134.0	115.1
50°	5918.7	5260.2	3318.4	561.1	323.5	186.3	164.3	178.0	157.0	120.4	101.5
52.5°	6955.0	6123.9	3431.5	607.2	361.2	199.9	151.8	172.7	151.8	111.0	92.1
55°	7946.4	6622.1	3229.4	640.6	396.7	240.8	142.4	164.3	145.5	105.7	89.0
57.5°	9015.1	6844.1	2542.7	708.7	421.9	275.3	144.5	151.8	137.1	102.6	87.9
60°	9334.4	6560.4	1534.6	797.7	408.3	285.8	160.2	135.0	125.6	96.3	84.8
62.5°	8838.2	5887.3	905.5	726.5	396.7	270.1	183.2	124.6	114.1	87.9	78.5
65°	8096.0	4973.4	590.4	613.4	420.8	240.8	194.7	119.3	103.6	79.6	69.1
67.5°	7248.1	4006.2	413.5	362.2	388.4	216.7	164.3	118.3	93.2	67.0	56.5
70°	6105.0	3000.2	291.0	239.7	323.5	192.6	127.7	115.1	81.7	54.4	44.0
72.5°	4716.9	1878.0	216.7	154.9	230.3	157.0	101.5	97.4	65.9	45.0	33.5
75°	3478.6	1070.9	152.8	112.0	151.8	119.3	75.4	69.1	56.5	42.9	30.4
77.5°	1816.2	536.0	95.3	85.8	86.9	74.3	54.4	50.2	52.3	42.9	28.3
80°	348.6	106.8	57.6	62.8	47.1	47.1	39.8	41.9	46.1	34.5	24.1
82.5°	145.5	23.0	31.4	35.6	29.3	32.5	32.5	33.5	32.5	25.1	17.8
85°	0.0	0.0	13.6	14.7	19.9	19.9	16.7	16.7	16.7	14.7	10.5
87.5°	0.0	0.0	0.0	0.0	1.0	3.1	6.3	7.3	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°	471.1	471.1	471.1	471.1	471.1	471.1	471.1	471.1	471.1	471.1	471.1
2.5°	437.6	435.5	438.6	440.7	442.8	442.8	440.7	438.6	435.5	438.6	435.5
5°	404.1	407.2	412.4	414.5	416.6	412.4	410.4	404.1	398.8	399.9	397.8
7.5°	377.9	381.0	387.3	391.5	391.5	389.4	383.1	376.9	368.5	368.5	367.4
10°	353.8	358.0	365.3	370.6	372.7	370.6	364.3	355.9	348.6	348.6	345.4
12.5°	333.9	339.2	347.5	354.9	357.0	354.9	348.6	340.2	331.8	331.8	329.7
15°	317.2	323.5	332.9	341.3	344.4	341.3	333.9	323.5	315.1	316.1	313.0
17.5°	301.5	306.7	319.3	328.7	331.8	328.7	319.3	305.7	297.3	299.4	297.3
20°	283.7	290.0	302.5	313.0	316.1	313.0	302.5	287.9	279.5	279.5	280.5
22.5°	264.8	271.1	283.7	291.0	295.2	292.1	281.6	268.0	259.6	259.6	260.7
25°	248.1	251.2	260.7	268.0	269.0	265.9	257.5	247.0	240.8	243.9	245.0
27.5°	232.4	232.4	236.6	240.8	239.7	236.6	233.4	225.1	224.0	227.2	230.3
30°	215.6	210.4	208.3	205.2	204.1	203.1	206.2	206.2	208.3	212.5	215.6
32.5°	201.0	190.5	181.1	171.7	166.4	170.6	179.0	186.3	193.7	199.9	203.1
35°	184.2	167.5	151.8	139.2	130.9	137.1	150.7	164.3	176.9	185.3	190.5
37.5°	167.5	143.4	124.6	108.9	102.6	107.8	122.5	141.3	160.2	170.6	178.0
40°	149.7	119.3	97.4	84.8	78.5	83.7	98.4	117.2	142.4	156.0	165.4
42.5°	131.9	98.4	78.5	65.9	62.8	65.9	77.5	96.3	123.5	140.3	152.8
45°	114.1	81.7	62.8	53.4	50.2	53.4	62.8	78.5	105.7	124.6	139.2
47.5°	98.4	69.1	52.3	44.0	41.9	45.0	52.3	65.9	89.0	107.8	124.6
50°	85.8	60.7	45.0	37.7	35.6	38.7	45.0	55.5	75.4	92.1	109.9
52.5°	77.5	56.5	39.8	32.5	31.4	33.5	38.7	47.1	63.9	78.5	95.3
55°	75.4	56.5	36.6	29.3	28.3	30.4	34.5	40.8	55.5	68.0	82.7
57.5°	77.5	60.7	34.5	25.1	24.1	26.2	30.4	35.6	48.2	58.6	72.2
60°	77.5	61.8	30.4	19.9	18.8	20.9	25.1	31.4	42.9	51.3	62.8
62.5°	70.1	56.5	25.1	15.7	13.6	15.7	20.9	26.2	37.7	46.1	55.5
65°	60.7	48.2	20.9	11.5	9.4	11.5	16.7	22.0	32.5	39.8	50.2
67.5°	49.2	36.6	15.7	8.4	6.3	8.4	12.6	17.8	27.2	34.5	45.0
70°	36.6	26.2	12.6	7.3	6.3	7.3	11.5	16.7	24.1	31.4	41.9
72.5°	27.2	17.8	10.5	7.3	5.2	7.3	10.5	15.7	23.0	30.4	39.8
75°	23.0	14.7	9.4	6.3	5.2	6.3	9.4	14.7	20.9	28.3	37.7
77.5°	22.0	13.6	8.4	5.2	4.2	5.2	8.4	12.6	18.8	26.2	36.6
80°	18.8	11.5	7.3	4.2	3.1	4.2	7.3	10.5	14.7	19.9	28.3
82.5°	14.7	9.4	5.2	2.1	1.0	2.1	5.2	6.3	9.4	11.5	16.7
85°	9.4	5.2	2.1	0.0	0.0	0.0	2.1	4.2	4.2	5.2	8.4
87.5°	4.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	3.1
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-SA4B-760-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	471.1	471.1	471.1	471.1	471.1	471.1	471.1	471.1	471.1	471.1
2.5°	441.8	442.8	444.9	448.0	455.4	461.6	467.9	476.3	480.5	480.5
5°	399.9	400.9	402.0	406.2	416.6	425.0	438.6	455.4	463.7	465.8
7.5°	367.4	369.5	371.6	374.8	385.2	396.7	414.5	445.9	461.6	464.8
10°	348.6	351.7	355.9	362.2	371.6	384.2	414.5	471.1	497.2	502.5
12.5°	333.9	339.2	343.4	350.7	362.2	382.1	442.8	542.2	588.3	600.9
15°	319.3	325.6	331.8	339.2	351.7	389.4	497.2	670.0	746.4	755.8
17.5°	304.6	312.0	320.3	328.7	344.4	407.2	583.1	846.9	953.6	974.6
20°	287.9	297.3	308.8	319.3	337.1	435.5	702.4	1057.3	1191.3	1236.3
22.5°	270.1	281.6	295.2	308.8	328.7	470.0	846.9	1283.4	1470.8	1500.1
25°	255.4	266.9	279.5	293.1	315.1	511.9	1021.7	1563.9	1734.6	1762.8
27.5°	241.8	253.3	264.8	277.4	301.5	566.3	1232.1	1862.3	2040.2	2069.5
30°	227.2	240.8	252.3	264.8	288.9	633.3	1475.0	2193.1	2361.6	2388.8
32.5°	214.6	228.2	239.7	252.3	279.5	706.6	1730.4	2486.2	2623.3	2623.3
35°	204.1	218.8	227.2	243.9	272.2	753.7	1972.2	2765.7	2869.3	2865.1
37.5°	192.6	210.4	216.7	228.2	262.7	758.9	2199.4	3060.9	3137.3	3110.1
40°	181.1	199.9	209.4	215.6	252.3	716.0	2448.5	3332.0	3396.9	3361.3
42.5°	170.6	185.3	198.9	206.2	246.0	640.6	2648.4	3622.0	3699.4	3668.0
45°	160.2	172.7	181.1	194.7	250.2	588.3	2820.1	3960.1	4096.2	4073.1
47.5°	149.7	160.2	165.4	186.3	278.5	564.2	2924.8	4483.5	4740.0	4721.1
50°	138.2	150.7	150.7	184.2	320.3	572.6	3015.9	5241.4	5638.1	5631.8
52.5°	126.7	140.3	138.2	199.9	352.8	611.3	3119.5	5910.3	6600.2	6657.7
55°	115.1	127.7	129.8	231.3	371.6	644.8	2718.6	6191.9	7421.9	7623.9
57.5°	102.6	109.9	135.0	255.4	365.3	742.2	1862.3	6243.2	7946.4	8379.7
60°	89.0	95.3	152.8	250.2	345.4	685.7	1172.4	5782.6	7872.0	8421.6
62.5°	77.5	87.9	161.2	220.9	351.7	594.6	747.4	4928.4	7163.3	7790.4
65°	68.0	84.8	146.6	199.9	355.9	403.0	504.6	4009.3	6471.4	7068.1
67.5°	60.7	94.2	120.4	178.0	305.7	283.7	346.5	3115.3	5441.3	5976.3
70°	55.5	96.3	98.4	152.8	236.6	182.1	228.2	2096.8	3750.7	4362.1
72.5°	50.2	71.2	74.3	122.5	152.8	111.0	147.6	1199.6	2734.3	3150.9
75°	48.2	48.2	51.3	79.6	84.8	80.6	95.3	716.0	1960.7	2265.3
77.5°	45.0	36.6	32.5	51.3	46.1	57.6	56.5	318.2	850.0	919.1
80°	35.6	26.2	22.0	32.5	31.4	38.7	33.5	26.2	38.7	37.7
82.5°	22.0	16.7	15.7	19.9	17.8	19.9	15.7	4.2	4.2	4.2
85°	10.5	9.4	8.4	8.4	9.4	8.4	6.3	2.1	1.0	1.0
87.5°	5.2	5.2	4.2	3.1	4.2	4.2	3.1	1.0	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

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