

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: P640846

Luminaire Tested: GWS-SA5E-760-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-760-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22931.9 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

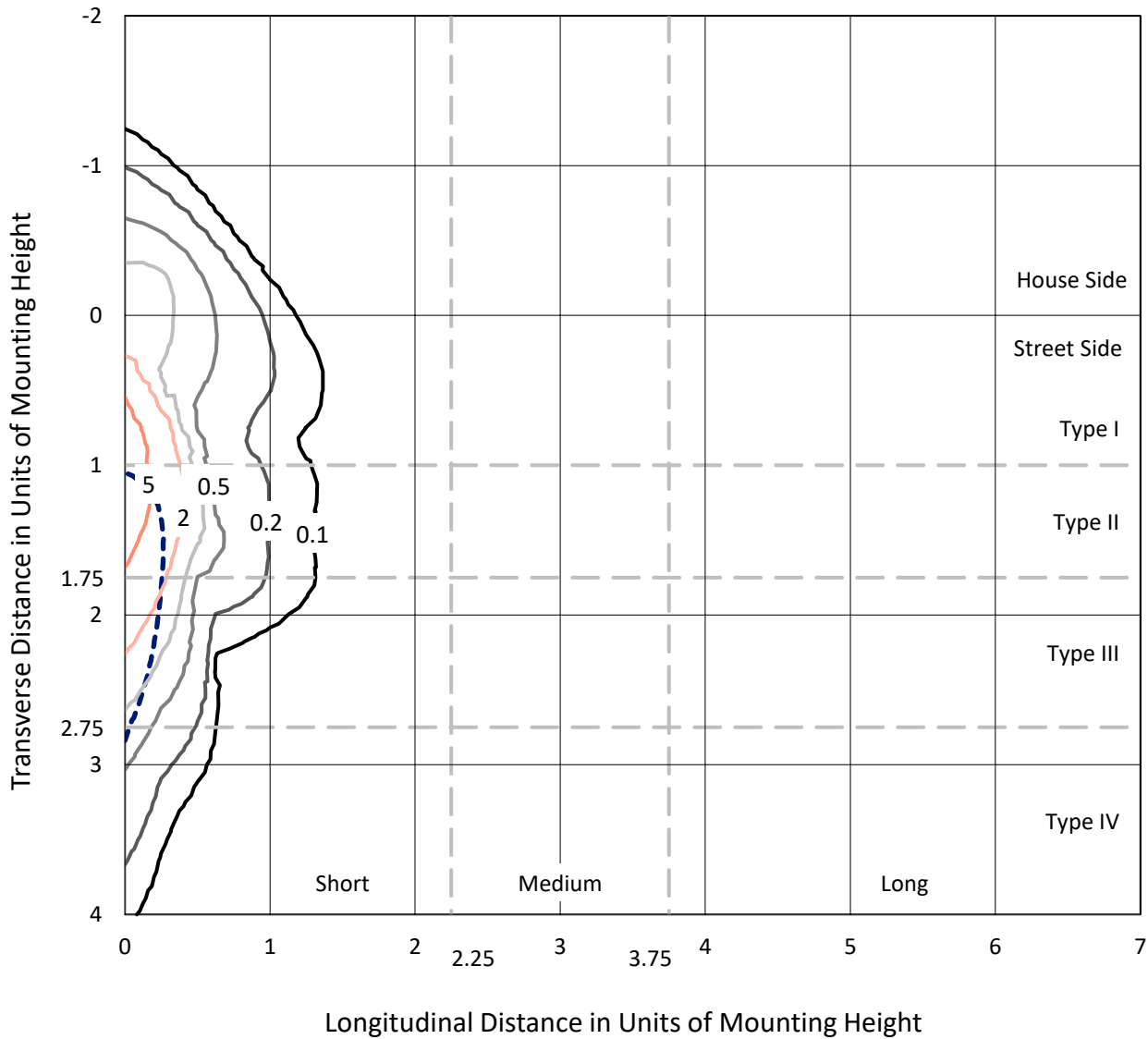
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

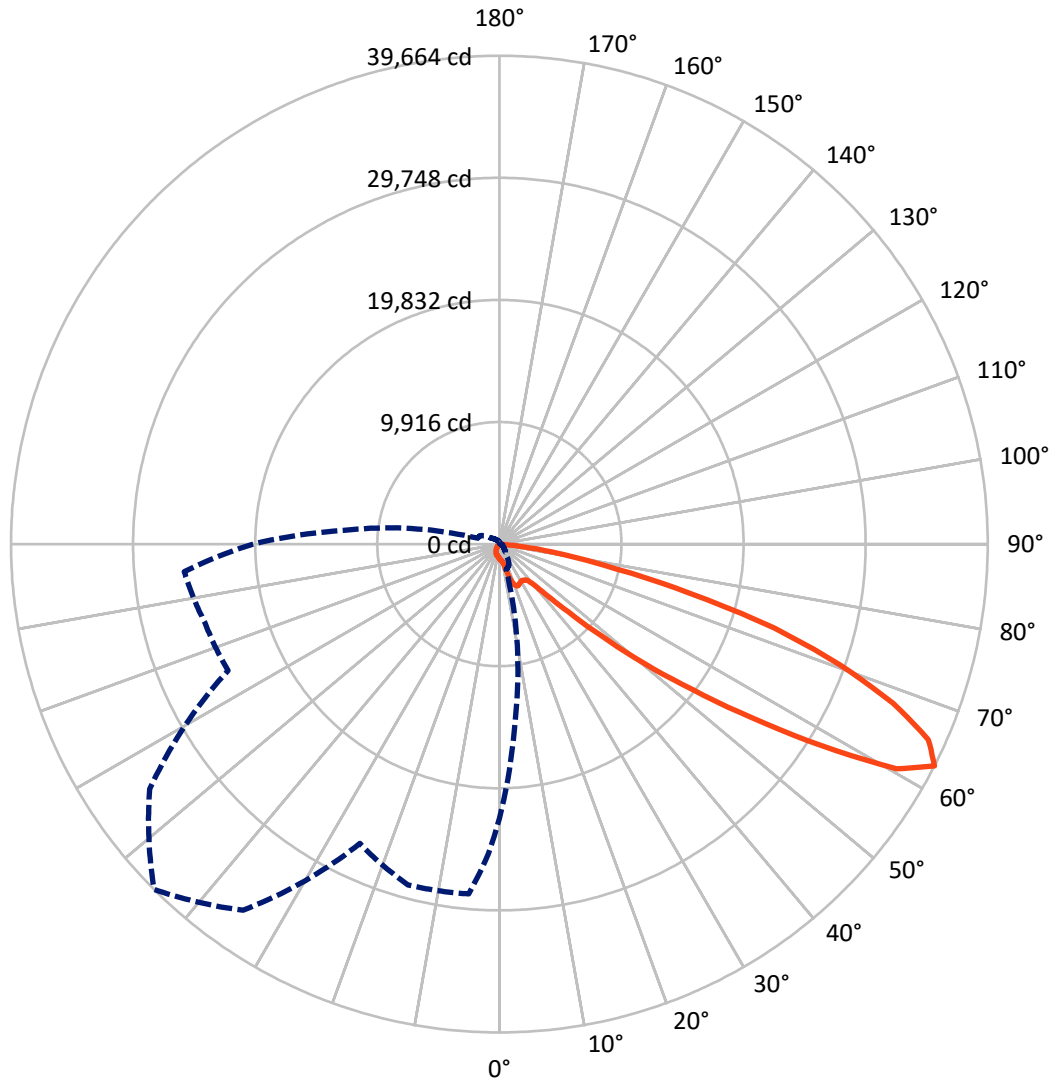
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2664.4	0.0	2664.4
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	20267.5	0.0	20267.5
	% Fixture	88.4	0.0	88.4
Total	Lumens	22931.9	0.0	22931.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	0.4
10°-20°	352.0	1.5
20°-30°	795.2	3.5
30°-40°	1370.0	6.0
40°-50°	2584.2	11.3
50°-60°	5769.9	25.2
60°-70°	7717.1	33.7
70°-80°	3869.9	16.9
80°-90°	370.9	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°	22931.9	100.0
0°-180°	22931.9	100.0

Coefficient of Utilization



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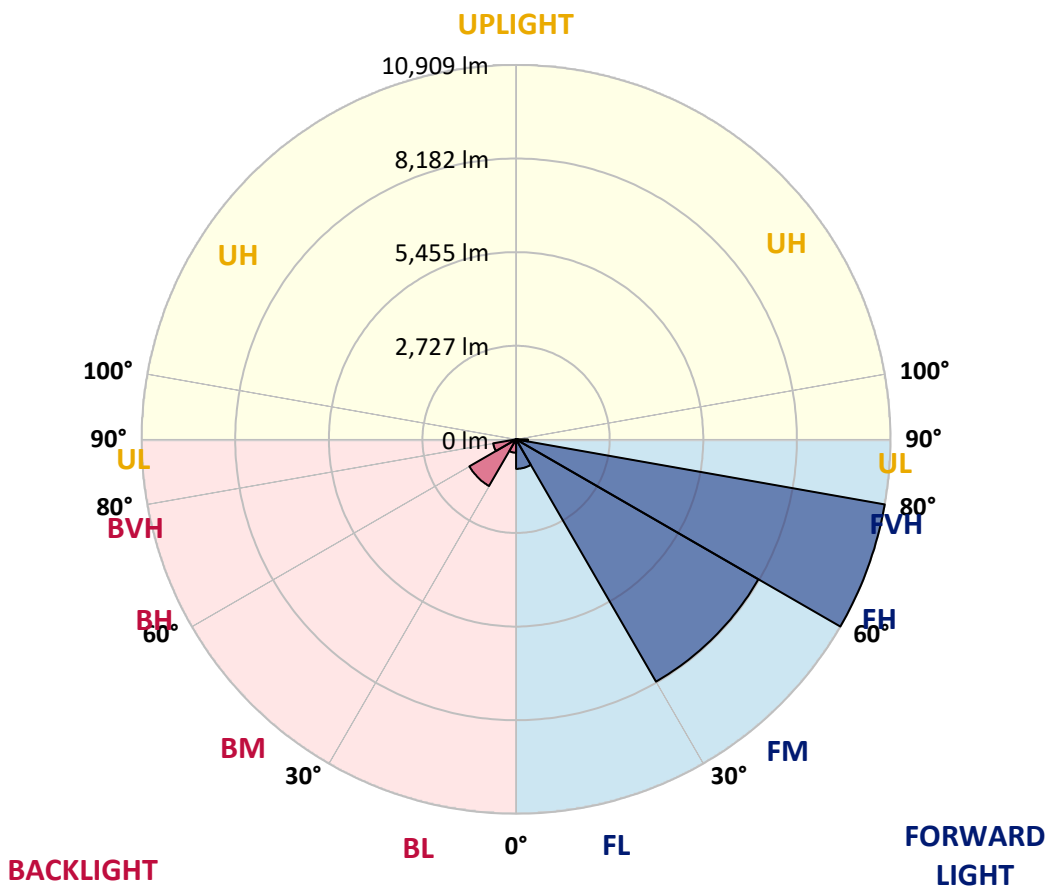
CATALOG NUMBER: GWS-SA5E-760-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	858.8	3.7			
FM (30°-60°)	8153.0	35.6			
FH (60°-80°)	10909.5	47.6			G4/12000
FVH (80°-90°)	346.3	1.5			G3/500
BL (0°-30°)	391.1	1.7	B1/500		
BM (30°-60°)	1571.1	6.9	B2/2500		
BH (60°-80°)	677.6	3.0	B2/1000		G2/1000
BVH (80°-90°)	24.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3
2.5°	1175.7	1173.0	1167.6	1151.3	1137.7	1129.5	1113.3	1113.3	1110.5	1105.1	1094.2
5°	1137.7	1126.8	1116.0	1086.1	1053.5	1034.5	1012.8	1010.1	1010.1	1004.6	1001.9
7.5°	1078.0	1067.1	1053.5	1004.6	974.8	955.8	936.8	934.0	925.9	925.9	925.9
10°	1045.4	1029.1	1007.4	953.1	923.2	906.9	893.3	885.2	879.7	871.6	868.9
12.5°	1116.0	1086.1	1039.9	942.2	901.5	879.7	863.5	858.0	841.7	830.9	822.7
15°	1335.9	1262.6	1170.3	966.6	893.3	860.7	839.0	828.2	814.6	795.6	782.0
17.5°	1697.0	1591.1	1436.4	1045.4	885.2	844.4	817.3	798.3	779.3	757.6	741.3
20°	2196.6	2039.2	1854.5	1189.3	885.2	825.4	792.9	768.4	741.3	716.8	697.8
22.5°	2832.0	2674.5	2359.6	1433.7	896.0	801.0	763.0	730.4	697.8	676.1	654.4
25°	3543.4	3320.8	3027.5	1729.6	925.9	768.4	727.7	695.1	665.2	638.1	613.6
27.5°	4336.3	4094.6	3703.6	2150.5	991.1	735.8	689.7	659.8	632.7	605.5	572.9
30°	5066.7	4922.8	4523.6	2655.5	1097.0	714.1	659.8	632.7	605.5	570.2	540.3
32.5°	5943.7	5688.5	5359.9	3231.2	1238.2	692.4	635.4	597.4	575.6	543.1	510.5
35°	6826.1	6608.9	6177.2	3939.8	1395.6	670.7	605.5	570.2	551.2	513.2	477.9
37.5°	7735.8	7686.9	7260.6	4724.5	1550.4	646.2	570.2	548.5	529.5	486.0	445.3
40°	8631.8	8542.2	8148.5	5620.6	1645.4	619.1	540.3	526.8	505.0	456.2	410.0
42.5°	9489.8	9421.9	9039.1	6478.6	1631.9	594.6	510.5	494.2	477.9	429.0	372.0
45°	10543.3	10432.0	9948.7	7114.0	1493.4	621.8	480.6	453.4	450.7	404.6	334.0
47.5°	12514.6	12148.0	11328.0	7602.7	1354.9	692.4	448.0	415.4	434.4	380.1	296.0
50°	15276.0	14844.3	13657.7	7982.8	1352.2	784.7	442.6	380.1	420.9	361.1	263.4
52.5°	18051.0	17290.7	15848.9	8186.5	1452.7	852.6	491.5	344.8	404.6	342.1	238.9
55°	20709.2	19131.7	16766.7	7513.1	1531.4	925.9	581.1	325.8	374.7	320.4	225.4
57.5°	23242.6	20611.5	17165.8	5943.7	1794.8	955.8	635.4	334.0	331.3	293.2	214.5
60°	23590.1	20540.9	16359.4	3456.5	1979.4	904.2	613.6	372.0	290.5	260.7	195.5
62.5°	22275.9	19175.1	14521.2	2155.9	1838.2	885.2	545.8	423.6	263.4	230.8	171.1
65°	20280.2	17032.8	12107.3	1390.2	1392.9	982.9	477.9	415.4	247.1	203.6	146.6
67.5°	17160.4	14255.1	9538.7	931.3	787.4	839.0	418.1	285.1	241.7	173.8	114.0
70°	12525.5	10146.9	6209.8	621.8	469.7	670.7	350.3	203.6	228.1	143.9	81.5
72.5°	9155.8	6818.0	3467.4	407.3	266.1	391.0	257.9	146.6	176.5	105.9	57.0
75°	6589.9	4692.0	1979.4	260.7	176.5	214.5	168.3	100.5	114.0	84.2	51.6
77.5°	3171.4	2286.2	898.7	143.9	119.5	108.6	89.6	62.5	70.6	76.0	46.2
80°	119.5	89.6	67.9	70.6	76.0	48.9	40.7	32.6	40.7	51.6	24.4
82.5°	0.0	0.0	0.0	8.1	10.9	13.6	16.3	13.6	16.3	19.0	2.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3
2.5°	1102.4	1097.0	1102.4	1107.8	1113.3	1118.7	1110.5	1116.0	1121.4	1107.8	1113.3
5°	1015.5	1012.8	1029.1	1037.2	1048.1	1053.5	1048.1	1048.1	1045.4	1029.1	1029.1
7.5°	939.5	942.2	955.8	974.8	988.4	996.5	991.1	988.4	980.2	955.8	955.8
10°	882.5	882.5	904.2	920.5	939.5	947.6	942.2	934.0	925.9	901.5	898.7
12.5°	836.3	836.3	852.6	879.7	901.5	912.3	909.6	898.7	885.2	860.7	858.0
15°	792.9	790.1	814.6	839.0	868.9	882.5	877.0	868.9	844.4	822.7	817.3
17.5°	749.4	746.7	768.4	801.0	833.6	852.6	849.9	830.9	809.1	782.0	776.6
20°	706.0	700.5	727.7	760.3	792.9	811.9	806.4	790.1	763.0	735.8	730.4
22.5°	662.5	659.8	678.8	706.0	735.8	752.1	749.4	735.8	708.7	684.2	684.2
25°	613.6	613.6	627.2	646.2	668.0	676.1	678.8	673.4	657.1	643.5	643.5
27.5°	572.9	564.8	570.2	575.6	586.5	600.1	600.1	605.5	608.2	602.8	605.5
30°	540.3	526.8	518.6	507.8	502.3	507.8	513.2	532.2	551.2	562.1	567.5
32.5°	502.3	486.0	464.3	434.4	415.4	410.0	426.3	461.6	496.9	521.3	534.9
35°	464.3	442.6	401.9	358.4	334.0	325.8	344.8	385.6	437.2	480.6	499.6
37.5°	426.3	396.4	339.4	287.8	260.7	255.2	274.2	317.7	377.4	437.2	461.6
40°	382.9	347.6	279.7	225.4	203.6	198.2	214.5	257.9	320.4	388.3	426.3
42.5°	339.4	296.0	225.4	179.2	157.5	157.5	179.2	211.8	268.8	342.1	388.3
45°	296.0	249.8	184.6	143.9	130.3	133.0	146.6	179.2	225.4	301.4	344.8
47.5°	255.2	214.5	152.1	119.5	108.6	111.3	127.6	154.8	192.8	260.7	306.8
50°	219.9	181.9	133.0	100.5	92.3	97.7	114.0	138.5	171.1	230.8	268.8
52.5°	198.2	162.9	122.2	86.9	81.5	86.9	103.2	124.9	154.8	203.6	241.7
55°	187.4	160.2	122.2	78.7	70.6	76.0	92.3	114.0	138.5	184.6	217.2
57.5°	184.6	165.6	130.3	70.6	59.7	65.2	81.5	103.2	127.6	168.3	195.5
60°	173.8	157.5	127.6	57.0	46.2	54.3	67.9	89.6	116.8	157.5	181.9
62.5°	152.1	138.5	111.3	46.2	35.3	40.7	57.0	78.7	105.9	143.9	171.1
65°	124.9	111.3	86.9	29.9	21.7	27.2	43.4	67.9	92.3	130.3	154.8
67.5°	92.3	78.7	59.7	19.0	10.9	19.0	35.3	57.0	84.2	116.8	141.2
70°	57.0	46.2	32.6	10.9	8.1	16.3	32.6	54.3	76.0	108.6	133.0
72.5°	32.6	21.7	13.6	5.4	8.1	16.3	32.6	54.3	73.3	103.2	124.9
75°	24.4	13.6	5.4	2.7	5.4	13.6	29.9	48.9	70.6	97.7	119.5
77.5°	16.3	8.1	2.7	0.0	2.7	10.9	27.2	46.2	65.2	92.3	114.0
80°	2.7	0.0	0.0	0.0	0.0	8.1	24.4	40.7	59.7	81.5	100.5
82.5°	0.0	0.0	0.0	0.0	0.0	2.7	19.0	35.3	51.6	67.9	81.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	10.9	27.2	40.7	51.6	57.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	27.2	32.6	38.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3
2.5°	1110.5	1126.8	1126.8	1137.7	1151.3	1175.7	1189.3	1208.3	1221.9	1235.4	1240.9
5°	1026.4	1029.1	1031.8	1037.2	1053.5	1080.7	1105.1	1135.0	1170.3	1197.4	1213.7
7.5°	955.8	955.8	955.8	963.9	980.2	999.2	1023.7	1064.4	1105.1	1137.7	1164.8
10°	896.0	904.2	906.9	920.5	939.5	963.9	991.1	1026.4	1072.5	1116.0	1164.8
12.5°	858.0	866.2	879.7	893.3	912.3	939.5	969.3	1015.5	1110.5	1200.1	1303.3
15°	822.7	833.6	849.9	868.9	890.6	920.5	953.1	1048.1	1270.7	1439.1	1602.0
17.5°	784.7	801.0	822.7	841.7	868.9	901.5	942.2	1126.8	1564.0	1843.7	2120.6
20°	735.8	757.6	782.0	811.9	844.4	882.5	942.2	1289.7	1987.6	2389.4	2756.0
22.5°	689.7	711.4	741.3	779.3	817.3	855.3	955.8	1536.8	2533.3	3041.1	3505.4
25°	651.7	678.8	708.7	741.3	784.7	828.2	988.4	1884.4	3190.4	3844.8	4173.3
27.5°	616.4	648.9	678.8	706.0	744.0	792.9	1061.7	2348.7	3967.0	4632.2	4890.2
30°	581.1	619.1	648.9	676.1	714.1	765.7	1173.0	2940.6	4830.4	5476.7	5503.8
32.5°	551.2	586.5	621.8	648.9	684.2	744.0	1327.8	3633.0	5715.6	6340.1	6084.9
35°	518.6	559.3	591.9	621.8	659.8	725.0	1507.0	4379.7	6608.9	7133.0	6663.2
37.5°	486.0	532.2	572.9	594.6	632.7	706.0	1637.3	5159.0	7521.3	7906.8	7171.0
40°	456.2	507.8	553.9	575.6	594.6	681.5	1656.3	5957.3	8447.2	8669.8	7648.9
42.5°	423.6	480.6	521.3	551.2	567.5	665.2	1542.3	6630.7	9223.7	9430.1	8273.4
45°	388.3	456.2	488.7	510.5	543.1	676.1	1395.6	7152.0	10111.6	10467.3	9302.5
47.5°	353.0	429.0	456.2	472.5	515.9	741.3	1341.3	7499.5	11575.1	12313.7	11037.5
50°	320.4	404.6	434.4	431.7	510.5	825.4	1401.1	7762.9	13774.5	14643.4	13416.1
52.5°	285.1	377.4	412.7	401.9	551.2	890.6	1520.5	7972.0	15466.1	17374.9	16611.9
55°	255.2	347.6	380.1	377.4	627.2	939.5	1612.9	6869.6	16166.6	19913.7	20212.4
57.5°	233.5	315.0	342.1	388.3	676.1	939.5	1865.4	4876.6	16180.2	21781.8	24991.2
60°	214.5	285.1	304.1	426.3	657.1	890.6	1846.4	2986.8	14912.2	21654.2	27532.7
62.5°	198.2	257.9	282.4	437.2	581.1	882.5	1667.2	1851.8	12718.3	20006.0	25689.0
65°	184.6	236.2	271.5	401.9	526.8	944.9	1124.1	1330.5	10315.3	18127.0	23573.8
67.5°	171.1	217.2	287.8	328.5	477.9	844.4	811.9	944.9	8096.9	16066.2	21632.4
70°	160.2	206.4	304.1	268.8	418.1	659.8	575.6	716.8	6198.9	13405.2	18898.2
72.5°	152.1	192.8	255.2	211.8	339.4	510.5	401.9	521.3	4051.2	10464.6	15406.4
75°	143.9	176.5	187.4	171.1	252.5	334.0	304.1	350.3	2413.9	7648.9	11689.2
77.5°	141.2	165.6	152.1	138.5	171.1	198.2	230.8	236.2	1178.4	3825.8	6125.6
80°	124.9	149.3	130.3	114.0	116.8	130.3	171.1	157.5	268.8	972.1	1634.6
82.5°	97.7	116.8	108.6	95.0	95.0	95.0	114.0	105.9	86.9	437.2	738.5
85°	67.9	81.5	81.5	76.0	73.3	73.3	70.6	67.9	24.4	27.2	40.7
87.5°	46.2	57.0	59.7	57.0	48.9	43.4	38.0	32.6	10.9	0.0	5.4
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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CATALOG NUMBER: GWS-SA5E-760-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3
2.5°	1259.9	1268.0	1268.0	1257.2	1249.0	1227.3	1205.6	1183.9	1178.4	1175.7
5°	1259.9	1292.5	1308.8	1306.0	1287.0	1251.7	1205.6	1156.7	1143.1	1137.7
7.5°	1240.9	1303.3	1352.2	1360.3	1325.0	1262.6	1178.4	1105.1	1086.1	1078.0
10°	1284.3	1406.5	1504.3	1517.8	1477.1	1354.9	1219.1	1094.2	1064.4	1045.4
12.5°	1517.8	1718.8	1838.2	1895.2	1816.5	1661.7	1436.4	1213.7	1145.8	1116.0
15°	1990.3	2275.4	2503.5	2503.5	2430.2	2155.9	1870.8	1509.7	1417.4	1335.9
17.5°	2595.8	2954.2	3155.1	3133.4	3022.1	2829.3	2487.2	1968.6	1781.2	1697.0
20°	3285.5	3500.0	3546.1	3532.5	3483.7	3372.3	3136.1	2579.5	2327.0	2196.6
22.5°	3882.8	3825.8	3757.9	3703.6	3690.0	3722.6	3690.0	3261.0	3062.8	2832.0
25°	4287.4	3964.3	3760.6	3662.9	3709.0	3896.4	4100.0	3939.8	3782.3	3543.4
27.5°	4507.3	3948.0	3654.7	3554.3	3633.0	3899.1	4341.7	4613.2	4450.3	4336.3
30°	4626.8	3934.4	3586.9	3489.1	3608.6	3942.5	4510.0	5243.2	5248.6	5066.7
32.5°	4797.9	4021.3	3600.4	3510.8	3671.0	4072.9	4721.8	5884.0	6041.4	5943.7
35°	4990.6	4154.3	3662.9	3581.4	3779.6	4246.7	4958.1	6530.2	6858.7	6826.1
37.5°	5172.6	4303.7	3809.5	3730.8	3945.3	4396.0	5186.1	7165.6	7621.7	7735.8
40°	5362.6	4512.8	4260.2	4336.3	4455.7	4632.2	5389.8	7716.8	8460.7	8631.8
42.5°	5810.6	5237.7	5623.3	5767.2	5783.5	5419.6	5835.1	8422.7	9286.2	9489.8
45°	6809.9	6527.5	7632.6	7836.2	7730.3	6627.9	6907.6	9440.9	10440.2	10543.3
47.5°	8072.5	8202.8	10383.1	11086.4	10451.0	8053.4	8208.2	11583.3	12552.6	12514.6
50°	9544.1	10160.5	13505.7	15164.7	13644.2	9905.2	9707.0	14217.1	15392.8	15276.0
52.5°	11284.6	12435.9	17258.2	19615.0	18175.9	11987.8	11906.4	17706.2	18423.0	18051.0
55°	13475.8	14632.5	21575.4	24869.0	22821.7	14529.3	14809.0	21751.9	21890.4	20709.2
57.5°	16745.0	17497.1	26663.8	30894.2	27671.2	17983.1	20011.4	27136.2	25479.9	23242.6
60°	22680.5	21181.7	31581.1	37057.8	32830.1	22840.7	26872.9	30326.7	26674.7	23590.1
62.5°	24746.8	24309.7	34660.2	39664.4	36300.2	26829.4	28656.8	28518.3	25127.0	22275.9
65°	21616.1	23530.4	34109.0	38287.8	35854.9	26172.3	25716.2	26522.6	23383.8	20280.2
67.5°	19968.0	21700.3	32021.0	34489.2	33386.8	23943.1	22922.2	22702.2	19631.3	17160.4
70°	18306.2	20022.3	28993.5	29300.3	28787.1	20310.1	18968.8	17494.4	14673.2	12525.5
72.5°	16307.8	17252.7	24793.0	23337.6	22756.5	15952.1	15669.7	13174.4	10999.5	9155.8
75°	14222.5	13948.3	19329.9	16017.3	16451.7	12411.4	13234.1	9674.5	8058.9	6589.9
77.5°	10345.1	10141.5	12946.3	9728.8	10774.1	8129.5	7304.0	3861.1	3676.5	3171.4
80°	5772.6	6959.2	6991.8	5452.2	6801.7	5300.2	1827.4	127.6	81.5	119.5
82.5°	2682.7	2992.2	3790.5	2527.9	3880.1	2625.7	377.4	0.0	0.0	0.0
85°	868.9	1270.7	1064.4	372.0	939.5	887.9	62.5	0.0	0.0	0.0
87.5°	51.6	105.9	27.2	0.0	0.0	0.0	0.0	0.0	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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