

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: P640300

Luminaire Tested: GWS-SA5D-750-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640300
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-SA5D-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19070.5 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

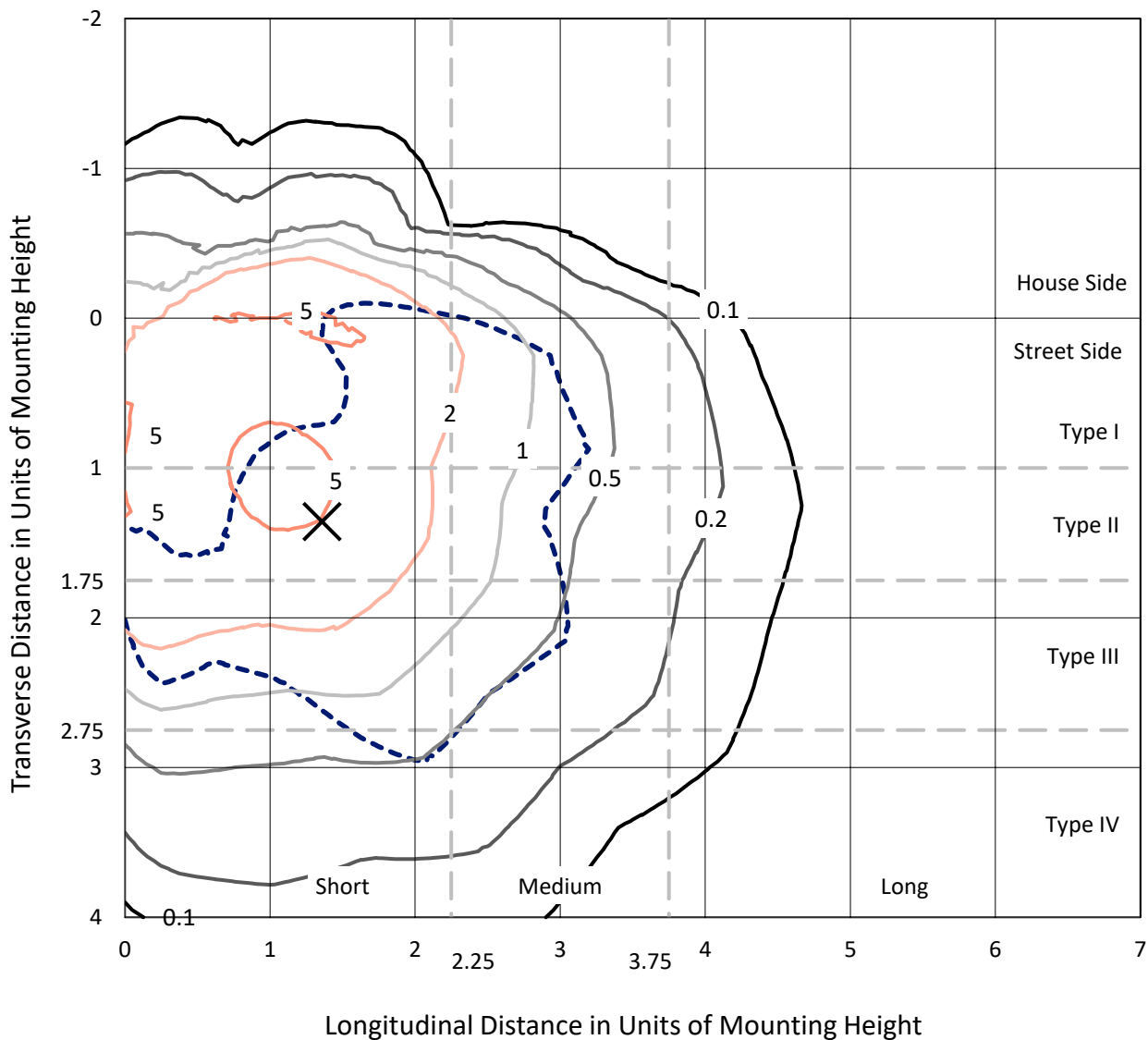
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

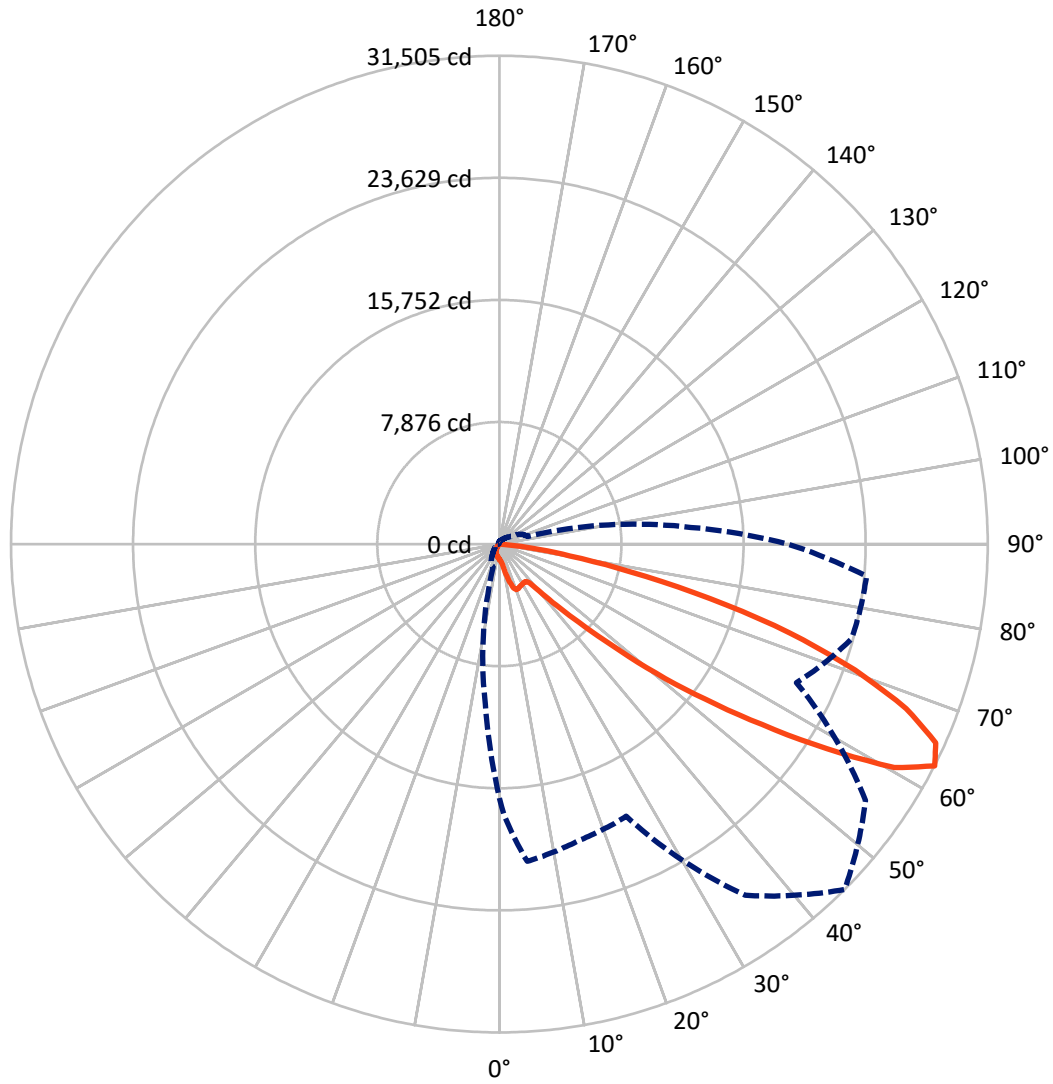
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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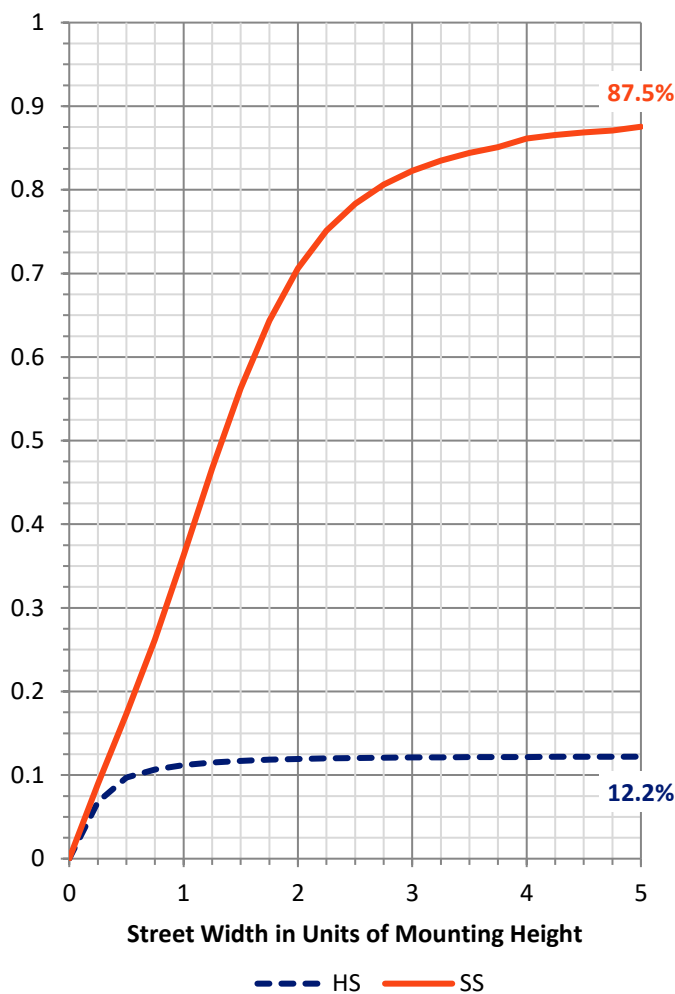
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2353.3	0.0	2353.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	16717.2	0.0	16717.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	19070.5	0.0	19070.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	0.5
10°-20°	332.5	1.7
20°-30°	722.8	3.8
30°-40°	1186.3	6.2
40°-50°	2180.8	11.4
50°-60°	4683.4	24.6
60°-70°	6290.6	33.0
70°-80°	3275.6	17.2
80°-90°	310.6	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°	19070.5	100.0
0°-180°	19070.5	100.0

Coefficient of Utilization

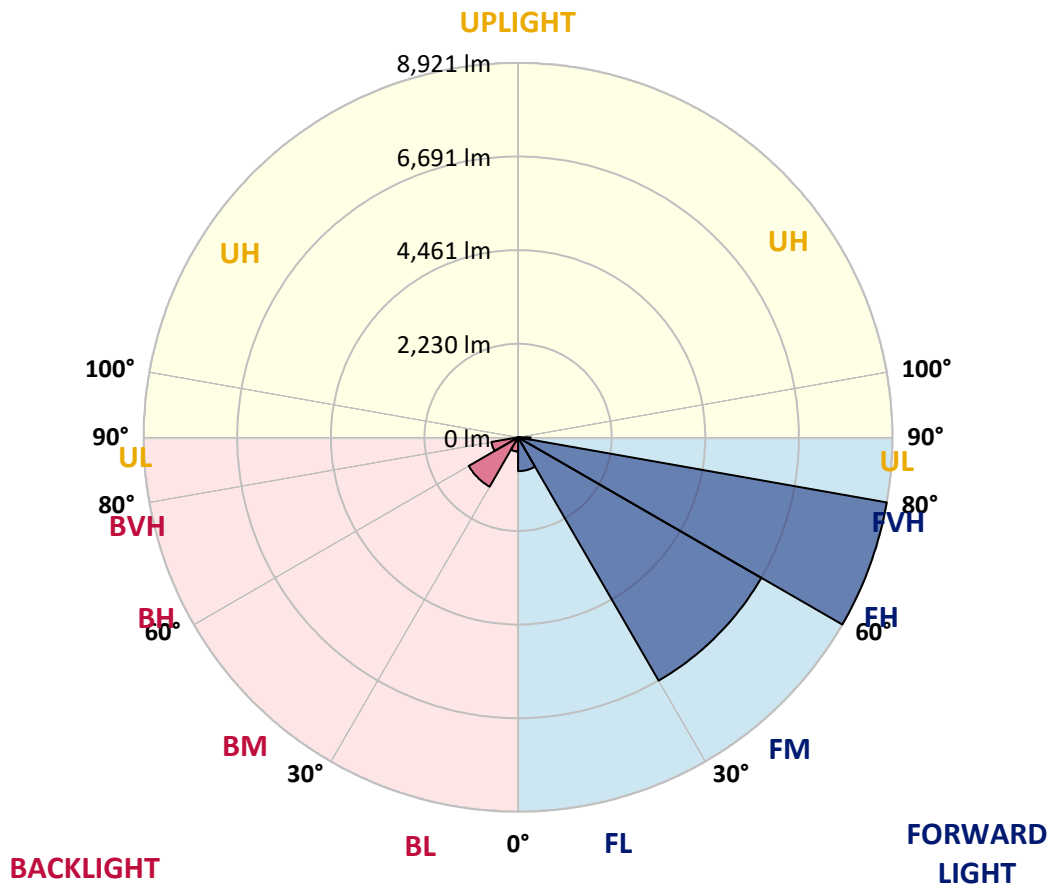


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	805.6	4.2			
FM (30°-60°)	6693.5	35.1			
FH (60°-80°)	8921.3	46.8			G4/12000
FVH (80°-90°)	296.7	1.6			G3/500
BL (0°-30°)	337.6	1.8	B1/500		
BM (30°-60°)	1357.1	7.1	B2/2500		
BH (60°-80°)	644.8	3.4	B2/1000		G2/1000
BVH (80°-90°)	13.8	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°	991.3	991.3	991.3	991.3	991.3	991.3	991.3	991.3	991.3	991.3	991.3
2.5°	1011.1	1015.5	1019.9	1035.3	1046.3	1055.1	1057.4	1050.7	1035.3	1019.9	997.9
5°	980.3	984.7	1000.1	1041.9	1083.8	1116.8	1127.8	1121.2	1083.8	1035.3	984.7
7.5°	978.0	986.9	1024.3	1112.4	1202.7	1271.0	1288.6	1273.2	1202.7	1105.8	1002.3
10°	1057.4	1072.8	1127.8	1286.4	1451.7	1572.8	1621.3	1555.2	1442.8	1266.6	1097.0
12.5°	1264.4	1290.8	1396.6	1627.9	1883.4	2044.2	2110.3	2028.8	1852.6	1597.0	1328.3
15°	1590.4	1630.1	1788.7	2134.5	2436.3	2579.5	2601.5	2555.3	2350.4	2068.4	1707.2
17.5°	2050.8	2108.1	2354.8	2707.3	2925.3	2976.0	2969.4	2920.9	2771.1	2577.3	2235.9
20°	2601.5	2669.8	2912.1	3202.9	3224.9	3165.4	3132.4	3103.8	3053.1	3020.1	2753.5
22.5°	3156.6	3240.3	3493.7	3566.4	3368.1	3196.3	3114.8	3136.8	3211.7	3374.7	3266.8
25°	3709.5	3788.8	4026.7	3830.7	3434.2	3147.8	3044.3	3097.2	3275.6	3628.0	3766.8
27.5°	4355.0	4414.4	4555.4	4011.3	3445.2	3108.2	3006.8	3088.3	3306.4	3786.6	4315.3
30°	5026.8	5062.1	4993.8	4059.8	3407.8	3048.7	2969.4	3088.3	3359.3	3892.4	4727.2
32.5°	5520.3	5526.9	5304.4	4064.2	3387.9	3000.2	2934.1	3075.1	3410.0	3980.5	5126.0
35°	6029.1	5996.1	5601.8	4130.3	3440.8	3017.9	2960.6	3112.6	3489.3	4084.0	5476.2
37.5°	6544.6	6485.1	5934.4	4238.2	3577.4	3209.5	3174.3	3304.2	3617.0	4227.2	5861.7
40°	7073.2	6991.7	6280.2	4401.2	3881.4	3861.5	3982.7	3967.3	3967.3	4410.0	6258.2
42.5°	7718.7	7623.9	6791.3	4861.6	4590.7	5033.4	5363.9	5159.0	4780.1	4830.8	6773.7
45°	8571.2	8489.6	7676.8	5742.7	5703.1	6720.8	7165.8	6760.4	5817.6	5802.2	7635.0
47.5°	9934.7	9919.3	9088.8	6764.8	7064.4	8868.5	9727.6	8947.8	7000.5	6830.9	9265.0
50°	11851.1	11804.9	10848.9	7963.2	8683.5	11529.5	13062.7	11763.0	8430.2	8031.5	11448.0
52.5°	14009.9	14058.4	13313.8	9271.6	10403.9	14490.1	16624.6	14988.0	9983.2	9558.0	14194.9
55°	16043.1	16320.7	16124.6	10802.6	12084.6	17759.1	20536.8	18525.7	11906.2	11556.0	17274.5
57.5°	17633.5	18415.5	19790.1	13027.4	14060.6	21583.2	24905.0	22360.8	14150.9	14800.7	21466.4
60°	17721.6	18757.0	21948.9	17682.0	16602.6	24863.2	29266.6	26107.8	17679.8	20310.0	24750.8
62.5°	16393.4	17503.6	20543.5	19796.7	19371.6	27654.1	31504.7	28839.3	21151.4	23537.1	23777.2
65°	14873.4	15994.6	18975.0	17397.8	19049.9	27535.2	30936.3	28903.1	21466.4	21343.1	22034.8
67.5°	12575.9	13582.6	16281.0	15399.9	17558.6	26206.9	28310.6	27081.4	19776.9	19961.9	20270.3
70°	9179.1	10148.4	12653.0	12697.0	15333.8	23812.4	24325.7	24156.1	18212.9	18408.9	17527.8
72.5°	6630.5	7447.7	9608.7	10412.7	12241.0	19968.5	19613.9	20268.1	15626.8	16395.6	14078.2
75°	4766.9	5379.3	7049.0	9058.0	9703.4	14829.4	14040.7	15697.3	12538.4	14117.8	10584.5
77.5°	1934.1	2149.9	2773.3	6101.8	6377.1	9976.5	8595.4	11401.8	8939.0	9276.1	5130.4
80°	79.3	88.1	114.5	3150.0	4372.6	5612.8	4599.5	6095.2	5903.5	3736.0	1211.5
82.5°	8.8	8.8	19.8	907.6	1914.2	3097.2	2167.6	3511.3	2989.2	1583.8	550.7
85°	2.2	2.2	4.4	103.5	449.4	495.6	293.0	1077.2	1390.0	647.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	19.8	22.0	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°	991.3	991.3	991.3	991.3	991.3	991.3	991.3	991.3	991.3	991.3	991.3
2.5°	997.9	986.9	973.6	960.4	953.8	936.2	929.6	925.2	920.8	923.0	923.0
5°	964.8	940.6	912.0	883.3	867.9	850.3	841.5	837.1	839.3	848.1	848.1
7.5°	960.4	914.2	852.5	815.0	797.4	784.2	775.4	771.0	773.2	784.2	788.6
10°	1033.1	951.6	841.5	777.6	757.8	744.6	735.7	729.1	724.7	733.5	735.7
12.5°	1189.5	1077.2	894.3	773.2	737.9	720.3	713.7	700.5	693.9	698.3	700.5
15°	1513.3	1319.5	1000.1	790.8	720.3	700.5	689.5	678.5	667.5	665.3	667.5
17.5°	1936.3	1658.7	1160.9	832.7	707.1	682.9	667.5	652.0	636.6	634.4	632.2
20°	2460.5	2075.1	1385.6	898.7	696.1	667.5	645.4	623.4	603.6	597.0	597.0
22.5°	2938.6	2577.3	1674.1	980.3	680.7	645.4	619.0	592.6	570.5	559.5	557.3
25°	3522.3	3110.4	2020.0	1075.0	658.6	616.8	588.2	561.7	539.7	526.5	522.1
27.5°	4110.5	3672.1	2412.1	1198.3	632.2	588.2	561.7	537.5	513.3	497.8	493.4
30°	4681.0	4277.9	2852.6	1352.5	612.4	559.5	537.5	513.3	491.2	467.0	460.4
32.5°	5293.4	4896.9	3346.1	1524.3	597.0	539.7	515.5	493.4	464.8	442.8	431.8
35°	5883.7	5535.7	3890.2	1691.8	581.5	522.1	495.6	473.6	442.8	418.5	403.1
37.5°	6478.5	6185.5	4458.5	1793.1	559.5	497.8	473.6	456.0	420.7	392.1	374.5
40°	7108.5	6857.4	5073.1	1751.2	539.7	471.4	458.2	438.4	398.7	365.7	343.6
42.5°	7800.2	7498.4	5698.7	1590.4	522.1	449.4	436.2	416.3	378.9	339.2	310.6
45°	8670.3	8201.1	6211.9	1348.1	530.9	427.3	400.9	396.5	361.3	310.6	275.4
47.5°	10166.0	9280.5	6610.6	1191.7	590.4	403.1	372.3	383.3	345.8	282.0	242.3
50°	12454.7	11069.1	6982.9	1180.7	680.7	392.1	345.8	374.5	330.4	253.3	213.7
52.5°	14635.5	12886.5	7220.8	1277.6	760.0	420.7	319.4	363.5	319.4	233.5	193.8
55°	16721.6	13935.0	6795.7	1348.1	834.9	506.6	299.6	345.8	306.2	222.5	187.2
57.5°	18970.6	14402.0	5350.6	1491.3	887.7	579.3	304.0	319.4	288.6	215.9	185.0
60°	19642.5	13805.0	3229.3	1678.5	859.1	601.4	337.0	284.2	264.3	202.7	178.4
62.5°	18598.4	12388.6	1905.4	1528.8	834.9	568.3	385.5	262.1	240.1	185.0	165.2
65°	17036.6	10465.6	1242.4	1290.8	885.5	506.6	409.7	251.1	218.1	167.4	145.4
67.5°	15252.3	8430.2	870.1	762.2	817.2	456.0	345.8	248.9	196.1	141.0	119.0
70°	12846.8	6313.3	612.4	504.4	680.7	405.3	268.7	242.3	171.8	114.5	92.5
72.5°	9925.9	3951.9	456.0	326.0	484.6	330.4	213.7	204.9	138.8	94.7	70.5
75°	7320.0	2253.5	321.6	235.7	319.4	251.1	158.6	145.4	119.0	90.3	63.9
77.5°	3821.9	1127.8	200.5	180.6	182.8	156.4	114.5	105.7	110.1	90.3	59.5
80°	733.5	224.7	121.2	132.2	99.1	99.1	83.7	88.1	96.9	72.7	50.7
82.5°	306.2	48.5	66.1	74.9	61.7	68.3	68.3	70.5	68.3	52.9	37.4
85°	0.0	0.0	28.6	30.8	41.9	41.9	35.2	35.2	35.2	30.8	22.0
87.5°	0.0	0.0	0.0	0.0	2.2	6.6	13.2	15.4	17.6	13.2	8.8
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°	991.3	991.3	991.3	991.3	991.3	991.3	991.3	991.3	991.3	991.3	991.3
2.5°	920.8	916.4	923.0	927.4	931.8	931.8	927.4	923.0	916.4	923.0	916.4
5°	850.3	856.9	867.9	872.3	876.7	867.9	863.5	850.3	839.3	841.5	837.1
7.5°	795.2	801.8	815.0	823.9	823.9	819.4	806.2	793.0	775.4	775.4	773.2
10°	744.6	753.4	768.8	779.8	784.2	779.8	766.6	749.0	733.5	733.5	726.9
12.5°	702.7	713.7	731.3	746.8	751.2	746.8	733.5	715.9	698.3	698.3	693.9
15°	667.5	680.7	700.5	718.1	724.7	718.1	702.7	680.7	663.0	665.3	658.6
17.5°	634.4	645.4	671.9	691.7	698.3	691.7	671.9	643.2	625.6	630.0	625.6
20°	597.0	610.2	636.6	658.6	665.3	658.6	636.6	605.8	588.2	588.2	590.4
22.5°	557.3	570.5	597.0	612.4	621.2	614.6	592.6	563.9	546.3	546.3	548.5
25°	522.1	528.7	548.5	563.9	566.1	559.5	541.9	519.9	506.6	513.3	515.5
27.5°	489.0	489.0	497.8	506.6	504.4	497.8	491.2	473.6	471.4	478.0	484.6
30°	453.8	442.8	438.4	431.8	429.5	427.3	434.0	434.0	438.4	447.2	453.8
32.5°	422.9	400.9	381.1	361.3	350.2	359.1	376.7	392.1	407.5	420.7	427.3
35°	387.7	352.5	319.4	293.0	275.4	288.6	317.2	345.8	372.3	389.9	400.9
37.5°	352.5	301.8	262.1	229.1	215.9	226.9	257.7	297.4	337.0	359.1	374.5
40°	315.0	251.1	204.9	178.4	165.2	176.2	207.1	246.7	299.6	328.2	348.0
42.5°	277.6	207.1	165.2	138.8	132.2	138.8	163.0	202.7	259.9	295.2	321.6
45°	240.1	171.8	132.2	112.3	105.7	112.3	132.2	165.2	222.5	262.1	293.0
47.5°	207.1	145.4	110.1	92.5	88.1	94.7	110.1	138.8	187.2	226.9	262.1
50°	180.6	127.8	94.7	79.3	74.9	81.5	94.7	116.7	158.6	193.8	231.3
52.5°	163.0	119.0	83.7	68.3	66.1	70.5	81.5	99.1	134.4	165.2	200.5
55°	158.6	119.0	77.1	61.7	59.5	63.9	72.7	85.9	116.7	143.2	174.0
57.5°	163.0	127.8	72.7	52.9	50.7	55.1	63.9	74.9	101.3	123.4	152.0
60°	163.0	130.0	63.9	41.9	39.7	44.1	52.9	66.1	90.3	107.9	132.2
62.5°	147.6	119.0	52.9	33.0	28.6	33.0	44.1	55.1	79.3	96.9	116.7
65°	127.8	101.3	44.1	24.2	19.8	24.2	35.2	46.3	68.3	83.7	105.7
67.5°	103.5	77.1	33.0	17.6	13.2	17.6	26.4	37.4	57.3	72.7	94.7
70°	77.1	55.1	26.4	15.4	13.2	15.4	24.2	35.2	50.7	66.1	88.1
72.5°	57.3	37.4	22.0	15.4	11.0	15.4	22.0	33.0	48.5	63.9	83.7
75°	48.5	30.8	19.8	13.2	11.0	13.2	19.8	30.8	44.1	59.5	79.3
77.5°	46.3	28.6	17.6	11.0	8.8	11.0	17.6	26.4	39.7	55.1	77.1
80°	39.7	24.2	15.4	8.8	6.6	8.8	15.4	22.0	30.8	41.9	59.5
82.5°	30.8	19.8	11.0	4.4	2.2	4.4	11.0	13.2	19.8	24.2	35.2
85°	19.8	11.0	4.4	0.0	0.0	0.0	4.4	8.8	8.8	11.0	17.6
87.5°	8.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4	6.6
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-SA5D-750-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	991.3	991.3	991.3	991.3	991.3	991.3	991.3	991.3	991.3	991.3
2.5°	929.6	931.8	936.2	942.8	958.2	971.4	984.7	1002.3	1011.1	1011.1
5°	841.5	843.7	845.9	854.7	876.7	894.3	923.0	958.2	975.8	980.3
7.5°	773.2	777.6	782.0	788.6	810.6	834.9	872.3	938.4	971.4	978.0
10°	733.5	740.1	749.0	762.2	782.0	808.4	872.3	991.3	1046.3	1057.4
12.5°	702.7	713.7	722.5	737.9	762.2	804.0	931.8	1141.1	1238.0	1264.4
15°	671.9	685.1	698.3	713.7	740.1	819.4	1046.3	1409.8	1570.6	1590.4
17.5°	641.0	656.4	674.1	691.7	724.7	856.9	1227.0	1782.1	2006.8	2050.8
20°	605.8	625.6	649.8	671.9	709.3	916.4	1478.1	2224.8	2506.8	2601.5
22.5°	568.3	592.6	621.2	649.8	691.7	989.1	1782.1	2700.7	3095.0	3156.6
25°	537.5	561.7	588.2	616.8	663.0	1077.2	2149.9	3291.0	3650.1	3709.5
27.5°	508.9	533.1	557.3	583.7	634.4	1191.7	2592.7	3918.8	4293.3	4355.0
30°	478.0	506.6	530.9	557.3	608.0	1332.7	3103.8	4614.9	4969.6	5026.8
32.5°	451.6	480.2	504.4	530.9	588.2	1486.9	3641.3	5231.7	5520.3	5520.3
35°	429.5	460.4	478.0	513.3	572.7	1586.0	4150.1	5819.8	6037.9	6029.1
37.5°	405.3	442.8	456.0	480.2	552.9	1597.0	4628.1	6441.0	6601.8	6544.6
40°	381.1	420.7	440.6	453.8	530.9	1506.7	5152.4	7011.6	7148.1	7073.2
42.5°	359.1	389.9	418.5	434.0	517.7	1348.1	5573.1	7621.7	7784.7	7718.7
45°	337.0	363.5	381.1	409.7	526.5	1238.0	5934.4	8333.2	8619.6	8571.2
47.5°	315.0	337.0	348.0	392.1	585.9	1187.3	6154.7	9434.7	9974.3	9934.7
50°	290.8	317.2	317.2	387.7	674.1	1204.9	6346.3	11029.5	11864.4	11851.1
52.5°	266.5	295.2	290.8	420.7	742.3	1286.4	6564.4	12437.1	13888.7	14009.9
55°	242.3	268.7	273.1	486.8	782.0	1356.9	5720.7	13029.7	15618.0	16043.1
57.5°	215.9	231.3	284.2	537.5	768.8	1561.8	3918.8	13137.6	16721.6	17633.5
60°	187.2	200.5	321.6	526.5	726.9	1442.8	2467.2	12168.4	16565.2	17721.6
62.5°	163.0	185.0	339.2	464.8	740.1	1251.2	1572.8	10370.9	15073.9	16393.4
65°	143.2	178.4	308.4	420.7	749.0	848.1	1061.8	8436.8	13617.8	14873.4
67.5°	127.8	198.3	253.3	374.5	643.2	597.0	729.1	6555.6	11450.2	12575.9
70°	116.7	202.7	207.1	321.6	497.8	383.3	480.2	4412.2	7892.7	9179.1
72.5°	105.7	149.8	156.4	257.7	321.6	233.5	310.6	2524.4	5753.8	6630.5
75°	101.3	101.3	107.9	167.4	178.4	169.6	200.5	1506.7	4125.9	4766.9
77.5°	94.7	77.1	68.3	107.9	96.9	121.2	119.0	669.7	1788.7	1934.1
80°	74.9	55.1	46.3	68.3	66.1	81.5	70.5	55.1	81.5	79.3
82.5°	46.3	35.2	33.0	41.9	37.4	41.9	33.0	8.8	8.8	8.8
85°	22.0	19.8	17.6	17.6	19.8	17.6	13.2	4.4	2.2	2.2
87.5°	11.0	11.0	8.8	6.6	8.8	8.8	6.6	2.2	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

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