

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: P638316

Luminaire Tested: GWS-SA4E-750-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638316
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-SA4E-750-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18953.6 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

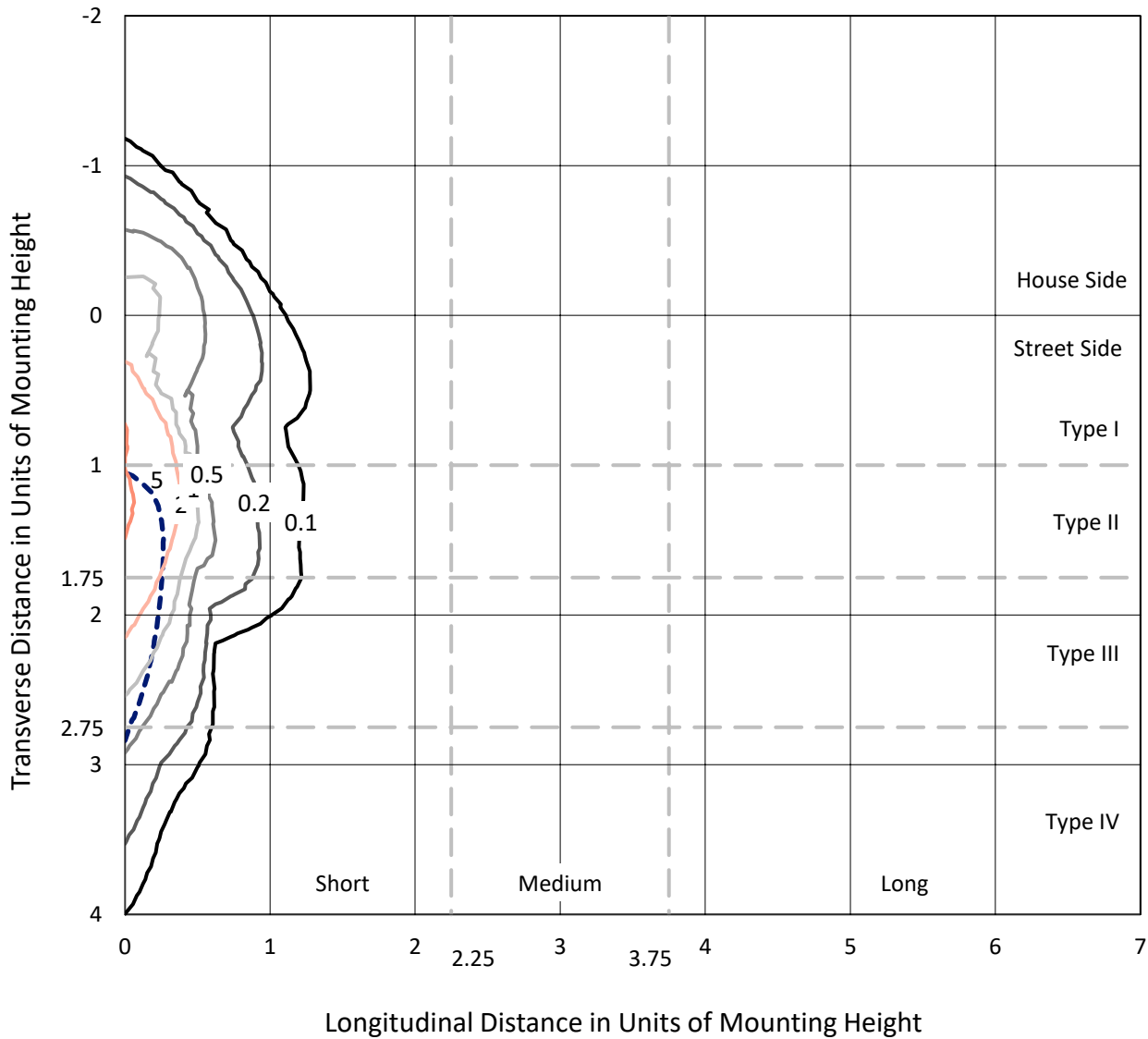
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

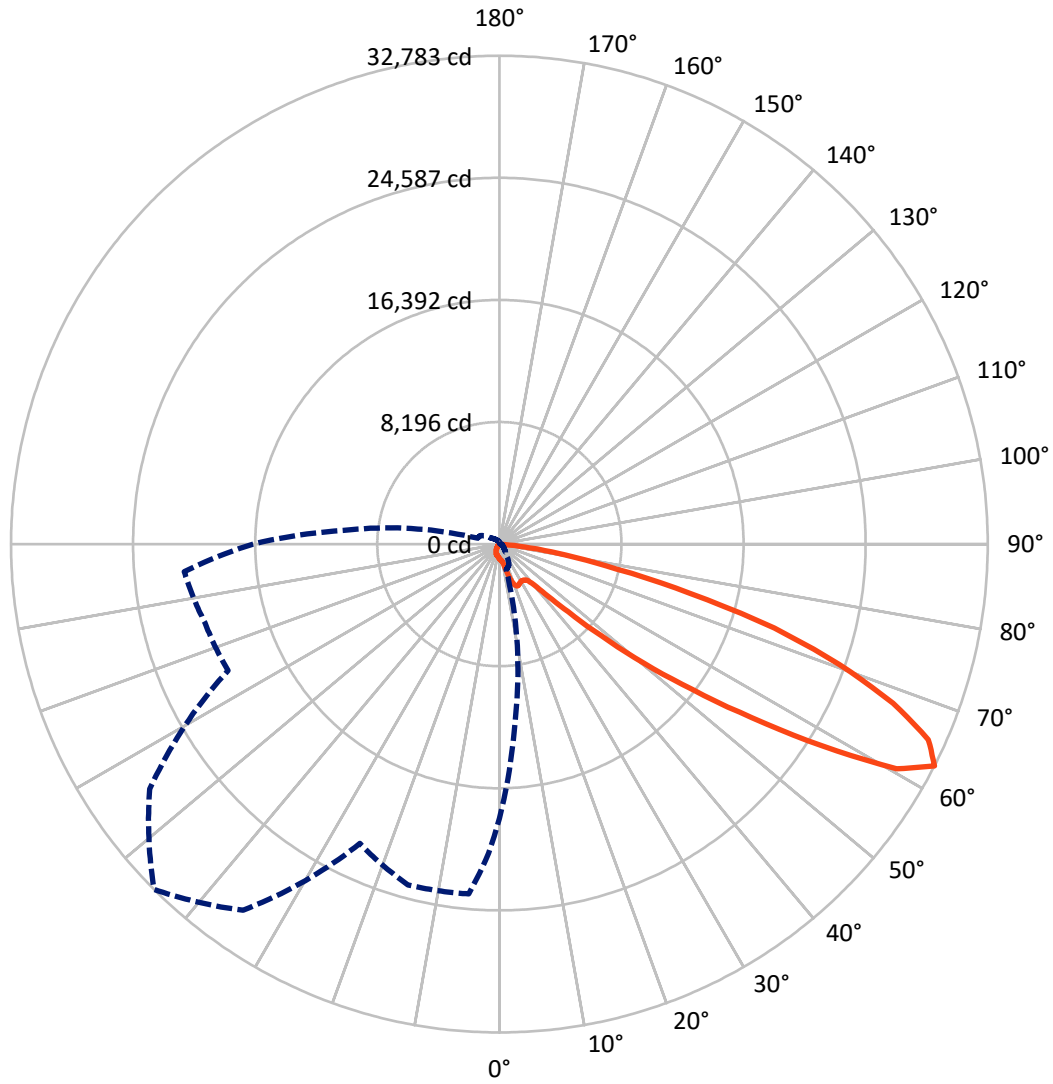
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	2202.2	0.0	2202.2
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	16751.4	0.0	16751.4
	% Fixture	88.4	0.0	88.4
Total	Lumens	18953.6	0.0	18953.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	0.4
10°-20°	290.9	1.5
20°-30°	657.3	3.5
30°-40°	1132.3	6.0
40°-50°	2135.9	11.3
50°-60°	4768.9	25.2
60°-70°	6378.3	33.7
70°-80°	3198.5	16.9
80°-90°	306.6	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°	18953.6	100.0
0°-180°	18953.6	100.0

Coefficient of Utilization



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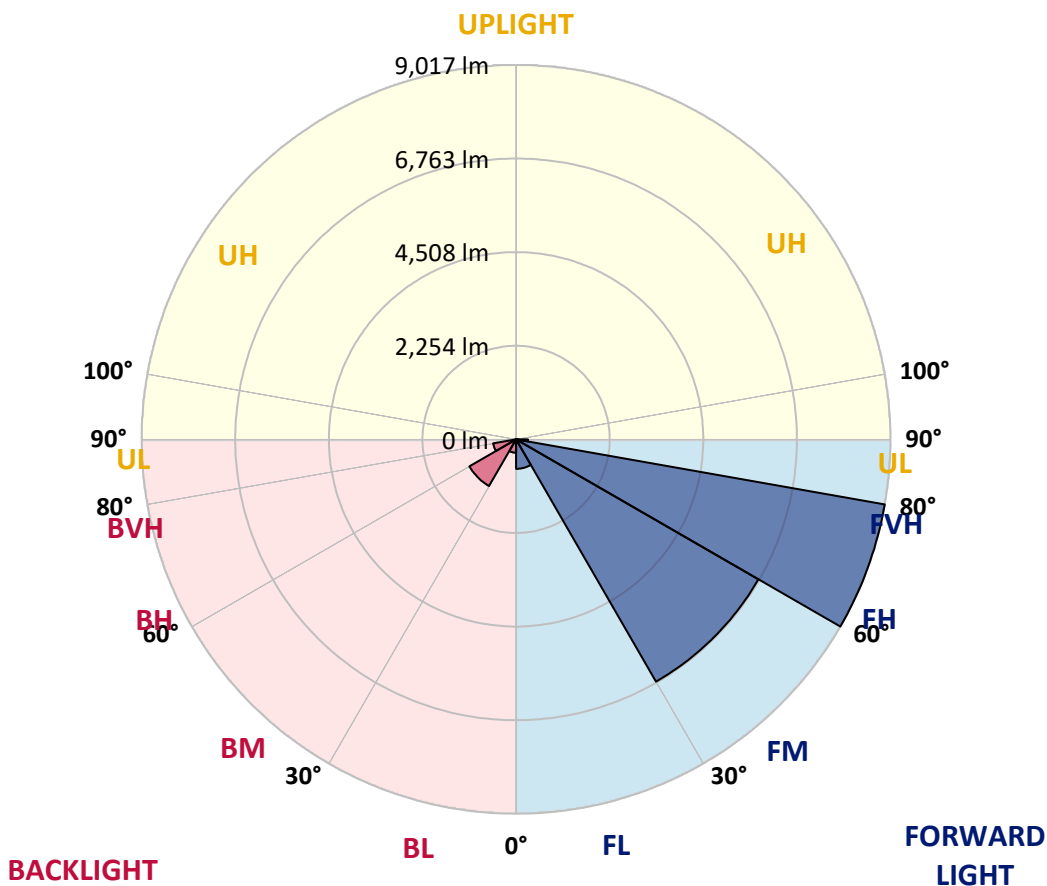
CATALOG NUMBER: GWS-SA4E-750-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	709.8	3.7			
FM (30°-60°)	6738.6	35.6			
FH (60°-80°)	9016.9	47.6			G4/12000
FVH (80°-90°)	286.2	1.5			G3/500
BL (0°-30°)	323.2	1.7	B1/500		
BM (30°-60°)	1298.5	6.9	B2/2500		
BH (60°-80°)	560.0	3.0	B2/1000		G2/1000
BVH (80°-90°)	20.4	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°	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0
2.5°	971.7	969.5	965.0	951.5	940.3	933.6	920.1	920.1	917.9	913.4	904.4
5°	940.3	931.3	922.4	897.7	870.8	855.0	837.1	834.8	834.8	830.4	828.1
7.5°	890.9	882.0	870.8	830.4	805.7	790.0	774.3	772.0	765.3	765.3	765.3
10°	864.0	850.6	832.6	787.7	763.0	749.6	738.3	731.6	727.1	720.4	718.1
12.5°	922.4	897.7	859.5	778.7	745.1	727.1	713.7	709.2	695.7	686.7	680.0
15°	1104.1	1043.6	967.3	798.9	738.3	711.4	693.5	684.5	673.3	657.6	646.3
17.5°	1402.6	1315.1	1187.2	864.0	731.6	697.9	675.5	659.8	644.1	626.1	612.7
20°	1815.6	1685.4	1532.8	983.0	731.6	682.2	655.3	635.1	612.7	592.5	576.8
22.5°	2340.7	2210.5	1950.2	1184.9	740.6	662.0	630.6	603.7	576.8	558.8	540.9
25°	2928.7	2744.7	2502.3	1429.6	765.3	635.1	601.4	574.5	549.8	527.4	507.2
27.5°	3584.0	3384.3	3061.1	1777.4	819.1	608.2	570.0	545.3	522.9	500.5	473.5
30°	4187.7	4068.7	3738.8	2194.8	906.7	590.2	545.3	522.9	500.5	471.3	446.6
32.5°	4912.6	4701.6	4430.1	2670.6	1023.4	572.3	525.1	493.7	475.8	448.8	421.9
35°	5641.9	5462.4	5105.6	3256.3	1153.5	554.3	500.5	471.3	455.6	424.2	395.0
37.5°	6393.7	6353.3	6001.0	3904.9	1281.4	534.1	471.3	453.3	437.6	401.7	368.0
40°	7134.3	7060.3	6734.9	4645.5	1360.0	511.7	446.6	435.4	417.4	377.0	338.9
42.5°	7843.5	7787.4	7471.0	5354.7	1348.8	491.5	421.9	408.4	395.0	354.6	307.5
45°	8714.2	8622.2	8222.8	5879.8	1234.3	513.9	397.2	374.8	372.5	334.4	276.0
47.5°	10343.5	10040.6	9362.8	6283.8	1119.9	572.3	370.3	343.4	359.1	314.2	244.6
50°	12625.9	12269.1	11288.3	6598.0	1117.6	648.6	365.8	314.2	347.9	298.5	217.7
52.5°	14919.5	14291.1	13099.4	6766.3	1200.6	704.7	406.2	285.0	334.4	282.8	197.5
55°	17116.5	15812.7	13858.0	6209.7	1265.7	765.3	480.3	269.3	309.7	264.8	186.3
57.5°	19210.4	17035.7	14187.9	4912.6	1483.4	790.0	525.1	276.0	273.8	242.4	177.3
60°	19497.6	16977.4	13521.3	2856.9	1636.0	747.3	507.2	307.5	240.1	215.4	161.6
62.5°	18411.4	15848.6	12002.0	1781.9	1519.3	731.6	451.1	350.1	217.7	190.8	141.4
65°	16762.0	14077.9	10006.9	1149.0	1151.3	812.4	395.0	343.4	204.2	168.3	121.2
67.5°	14183.4	11782.1	7883.9	769.8	650.8	693.5	345.6	235.6	199.7	143.6	94.3
70°	10352.5	8386.6	5132.5	513.9	388.2	554.3	289.5	168.3	188.5	118.9	67.3
72.5°	7567.5	5635.2	2865.8	336.6	219.9	323.2	213.2	121.2	145.9	87.5	47.1
75°	5446.7	3878.0	1636.0	215.4	145.9	177.3	139.1	83.0	94.3	69.6	42.6
77.5°	2621.2	1889.6	742.8	118.9	98.7	89.8	74.1	51.6	58.3	62.8	38.2
80°	98.7	74.1	56.1	58.3	62.8	40.4	33.7	26.9	33.7	42.6	20.2
82.5°	0.0	0.0	0.0	6.7	9.0	11.2	13.5	11.2	13.5	15.7	2.2
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°	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0
2.5°	911.1	906.7	911.1	915.6	920.1	924.6	917.9	922.4	926.9	915.6	920.1
5°	839.3	837.1	850.6	857.3	866.3	870.8	866.3	866.3	864.0	850.6	850.6
7.5°	776.5	778.7	790.0	805.7	816.9	823.6	819.1	816.9	810.2	790.0	790.0
10°	729.4	729.4	747.3	760.8	776.5	783.2	778.7	772.0	765.3	745.1	742.8
12.5°	691.2	691.2	704.7	727.1	745.1	754.1	751.8	742.8	731.6	711.4	709.2
15°	655.3	653.1	673.3	693.5	718.1	729.4	724.9	718.1	697.9	680.0	675.5
17.5°	619.4	617.2	635.1	662.0	689.0	704.7	702.4	686.7	668.8	646.3	641.8
20°	583.5	579.0	601.4	628.4	655.3	671.0	666.5	653.1	630.6	608.2	603.7
22.5°	547.6	545.3	561.1	583.5	608.2	621.6	619.4	608.2	585.7	565.5	565.5
25°	507.2	507.2	518.4	534.1	552.1	558.8	561.1	556.6	543.1	531.9	531.9
27.5°	473.5	466.8	471.3	475.8	484.7	496.0	496.0	500.5	502.7	498.2	500.5
30°	446.6	435.4	428.6	419.7	415.2	419.7	424.2	439.9	455.6	464.6	469.0
32.5°	415.2	401.7	383.8	359.1	343.4	338.9	352.3	381.5	410.7	430.9	442.1
35°	383.8	365.8	332.1	296.2	276.0	269.3	285.0	318.7	361.3	397.2	412.9
37.5°	352.3	327.7	280.5	237.9	215.4	211.0	226.7	262.6	311.9	361.3	381.5
40°	316.4	287.3	231.2	186.3	168.3	163.8	177.3	213.2	264.8	320.9	352.3
42.5°	280.5	244.6	186.3	148.1	130.2	130.2	148.1	175.0	222.2	282.8	320.9
45°	244.6	206.5	152.6	118.9	107.7	110.0	121.2	148.1	186.3	249.1	285.0
47.5°	211.0	177.3	125.7	98.7	89.8	92.0	105.5	127.9	159.3	215.4	253.6
50°	181.8	150.4	110.0	83.0	76.3	80.8	94.3	114.5	141.4	190.8	222.2
52.5°	163.8	134.7	101.0	71.8	67.3	71.8	85.3	103.2	127.9	168.3	199.7
55°	154.9	132.4	101.0	65.1	58.3	62.8	76.3	94.3	114.5	152.6	179.5
57.5°	152.6	136.9	107.7	58.3	49.4	53.9	67.3	85.3	105.5	139.1	161.6
60°	143.6	130.2	105.5	47.1	38.2	44.9	56.1	74.1	96.5	130.2	150.4
62.5°	125.7	114.5	92.0	38.2	29.2	33.7	47.1	65.1	87.5	118.9	141.4
65°	103.2	92.0	71.8	24.7	18.0	22.4	35.9	56.1	76.3	107.7	127.9
67.5°	76.3	65.1	49.4	15.7	9.0	15.7	29.2	47.1	69.6	96.5	116.7
70°	47.1	38.2	26.9	9.0	6.7	13.5	26.9	44.9	62.8	89.8	110.0
72.5°	26.9	18.0	11.2	4.5	6.7	13.5	26.9	44.9	60.6	85.3	103.2
75°	20.2	11.2	4.5	2.2	4.5	11.2	24.7	40.4	58.3	80.8	98.7
77.5°	13.5	6.7	2.2	0.0	2.2	9.0	22.4	38.2	53.9	76.3	94.3
80°	2.2	0.0	0.0	0.0	0.0	6.7	20.2	33.7	49.4	67.3	83.0
82.5°	0.0	0.0	0.0	0.0	0.0	2.2	15.7	29.2	42.6	56.1	67.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	9.0	22.4	33.7	42.6	47.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	22.4	26.9	31.4
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0
2.5°	917.9	931.3	931.3	940.3	951.5	971.7	983.0	998.7	1009.9	1021.1	1025.6
5°	848.3	850.6	852.8	857.3	870.8	893.2	913.4	938.1	967.3	989.7	1003.2
7.5°	790.0	790.0	790.0	796.7	810.2	825.9	846.1	879.7	913.4	940.3	962.8
10°	740.6	747.3	749.6	760.8	776.5	796.7	819.1	848.3	886.5	922.4	962.8
12.5°	709.2	715.9	727.1	738.3	754.1	776.5	801.2	839.3	917.9	991.9	1077.2
15°	680.0	689.0	702.4	718.1	736.1	760.8	787.7	866.3	1050.3	1189.4	1324.1
17.5°	648.6	662.0	680.0	695.7	718.1	745.1	778.7	931.3	1292.7	1523.8	1752.7
20°	608.2	626.1	646.3	671.0	697.9	729.4	778.7	1066.0	1642.8	1974.9	2277.9
22.5°	570.0	588.0	612.7	644.1	675.5	706.9	790.0	1270.2	2093.8	2513.5	2897.3
25°	538.6	561.1	585.7	612.7	648.6	684.5	816.9	1557.5	2636.9	3177.8	3449.3
27.5°	509.4	536.4	561.1	583.5	614.9	655.3	877.5	1941.2	3278.8	3828.6	4041.8
30°	480.3	511.7	536.4	558.8	590.2	632.9	969.5	2430.5	3992.4	4526.6	4549.0
32.5°	455.6	484.7	513.9	536.4	565.5	614.9	1097.4	3002.7	4724.0	5240.2	5029.3
35°	428.6	462.3	489.2	513.9	545.3	599.2	1245.5	3619.9	5462.4	5895.5	5507.3
37.5°	401.7	439.9	473.5	491.5	522.9	583.5	1353.3	4264.0	6216.4	6535.1	5926.9
40°	377.0	419.7	457.8	475.8	491.5	563.3	1369.0	4923.8	6981.7	7165.7	6321.9
42.5°	350.1	397.2	430.9	455.6	469.0	549.8	1274.7	5480.3	7623.6	7794.1	6838.1
45°	320.9	377.0	404.0	421.9	448.8	558.8	1153.5	5911.2	8357.4	8651.4	7688.6
47.5°	291.7	354.6	377.0	390.5	426.4	612.7	1108.6	6198.5	9567.0	10177.5	9122.7
50°	264.8	334.4	359.1	356.8	421.9	682.2	1158.0	6416.2	11384.8	12103.0	11088.6
52.5°	235.6	311.9	341.1	332.1	455.6	736.1	1256.8	6589.0	12783.0	14360.7	13730.0
55°	211.0	287.3	314.2	311.9	518.4	776.5	1333.1	5677.8	13362.0	16459.0	16705.8
57.5°	193.0	260.3	282.8	320.9	558.8	776.5	1541.8	4030.6	13373.2	18003.0	20655.6
60°	177.3	235.6	251.4	352.3	543.1	736.1	1526.1	2468.6	12325.2	17897.5	22756.2
62.5°	163.8	213.2	233.4	361.3	480.3	729.4	1377.9	1530.5	10511.8	16535.3	21232.4
65°	152.6	195.2	224.4	332.1	435.4	781.0	929.1	1099.7	8525.7	14982.3	19484.2
67.5°	141.4	179.5	237.9	271.5	395.0	697.9	671.0	781.0	6692.2	13278.9	17879.6
70°	132.4	170.6	251.4	222.2	345.6	545.3	475.8	592.5	5123.5	11079.6	15619.7
72.5°	125.7	159.3	211.0	175.0	280.5	421.9	332.1	430.9	3348.4	8649.2	12733.6
75°	118.9	145.9	154.9	141.4	208.7	276.0	251.4	289.5	1995.1	6321.9	9661.3
77.5°	116.7	136.9	125.7	114.5	141.4	163.8	190.8	195.2	974.0	3162.1	5062.9
80°	103.2	123.4	107.7	94.3	96.5	107.7	141.4	130.2	222.2	803.4	1351.0
82.5°	80.8	96.5	89.8	78.5	78.5	78.5	94.3	87.5	71.8	361.3	610.4
85°	56.1	67.3	67.3	62.8	60.6	60.6	58.3	56.1	20.2	22.4	33.7
87.5°	38.2	47.1	49.4	47.1	40.4	35.9	31.4	26.9	9.0	0.0	4.5
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-SA4E-750-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0
2.5°	1041.3	1048.0	1048.0	1039.1	1032.3	1014.4	996.4	978.5	974.0	971.7
5°	1041.3	1068.2	1081.7	1079.5	1063.8	1034.6	996.4	956.0	944.8	940.3
7.5°	1025.6	1077.2	1117.6	1124.3	1095.2	1043.6	974.0	913.4	897.7	890.9
10°	1061.5	1162.5	1243.3	1254.5	1220.8	1119.9	1007.6	904.4	879.7	864.0
12.5°	1254.5	1420.6	1519.3	1566.5	1501.4	1373.5	1187.2	1003.2	947.1	922.4
15°	1645.0	1880.6	2069.2	2069.2	2008.6	1781.9	1546.3	1247.8	1171.5	1104.1
17.5°	2145.5	2441.7	2607.8	2589.8	2497.8	2338.5	2055.7	1627.0	1472.2	1402.6
20°	2715.5	2892.8	2930.9	2919.7	2879.3	2787.3	2592.1	2132.0	1923.3	1815.6
22.5°	3209.2	3162.1	3106.0	3061.1	3049.9	3076.8	3049.9	2695.3	2531.5	2340.7
25°	3543.6	3276.5	3108.2	3027.4	3065.6	3220.4	3388.7	3256.3	3126.2	2928.7
27.5°	3725.4	3263.1	3020.7	2937.7	3002.7	3222.7	3588.5	3812.9	3678.2	3584.0
30°	3824.1	3251.9	2964.6	2883.8	2982.5	3258.6	3727.6	4333.6	4338.0	4187.7
32.5°	3965.5	3323.7	2975.8	2901.8	3034.2	3366.3	3902.7	4863.2	4993.4	4912.6
35°	4124.8	3433.6	3027.4	2960.1	3123.9	3509.9	4097.9	5397.3	5668.9	5641.9
37.5°	4275.2	3557.1	3148.6	3083.5	3260.8	3633.4	4286.4	5922.5	6299.5	6393.7
40°	4432.3	3729.9	3521.2	3584.0	3682.7	3828.6	4454.7	6378.0	6992.9	7134.3
42.5°	4802.6	4329.1	4647.7	4766.7	4780.2	4479.4	4822.8	6961.5	7675.2	7843.5
45°	5628.5	5395.1	6308.5	6476.8	6389.2	5478.1	5709.3	7803.1	8629.0	8714.2
47.5°	6672.0	6779.7	8581.8	9163.1	8637.9	6656.3	6784.2	9573.8	10375.0	10343.5
50°	7888.4	8397.8	11162.7	12533.9	11277.1	8186.9	8023.0	11750.6	12722.4	12625.9
52.5°	9326.9	10278.4	14264.2	16212.1	15022.7	9908.2	9840.8	14634.4	15226.9	14919.5
55°	11138.0	12094.0	17832.4	20554.7	18862.5	12008.7	12239.9	17978.3	18092.8	17116.5
57.5°	13840.0	14461.6	22038.1	25534.5	22870.7	14863.4	16539.8	22428.6	21059.6	19210.4
60°	18745.8	17507.0	26102.3	30628.9	27134.7	18878.2	22210.9	25065.5	22047.1	19497.6
62.5°	20453.7	20092.3	28647.3	32783.3	30002.8	22175.0	23685.3	23570.9	20767.9	18411.4
65°	17866.1	19448.3	28191.7	31645.5	29634.7	21631.9	21254.8	21921.4	19327.1	16762.0
67.5°	16503.9	17935.7	26465.9	28505.9	27594.7	19789.4	18945.6	18763.8	16225.6	14183.4
70°	15130.4	16548.8	23963.6	24217.2	23793.0	16786.6	15678.0	14459.4	12127.7	10352.5
72.5°	13478.7	14259.7	20491.8	19288.9	18808.7	13184.7	12951.3	10888.9	9091.3	7567.5
75°	11755.1	11528.5	15976.5	13238.6	13597.6	10258.3	10938.2	7996.1	6660.8	5446.7
77.5°	8550.4	8382.1	10700.4	8041.0	8905.0	6719.1	6036.9	3191.3	3038.7	2621.2
80°	4771.2	5751.9	5778.8	4506.4	5621.7	4380.7	1510.3	105.5	67.3	98.7
82.5°	2217.3	2473.1	3132.9	2089.4	3207.0	2170.1	311.9	0.0	0.0	0.0
85°	718.1	1050.3	879.7	307.5	776.5	733.9	51.6	0.0	0.0	0.0
87.5°	42.6	87.5	22.4	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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