

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: P637821

Luminaire Tested: GWS-SA4D-750-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637821
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-SA4D-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: 15167.1 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 - G3

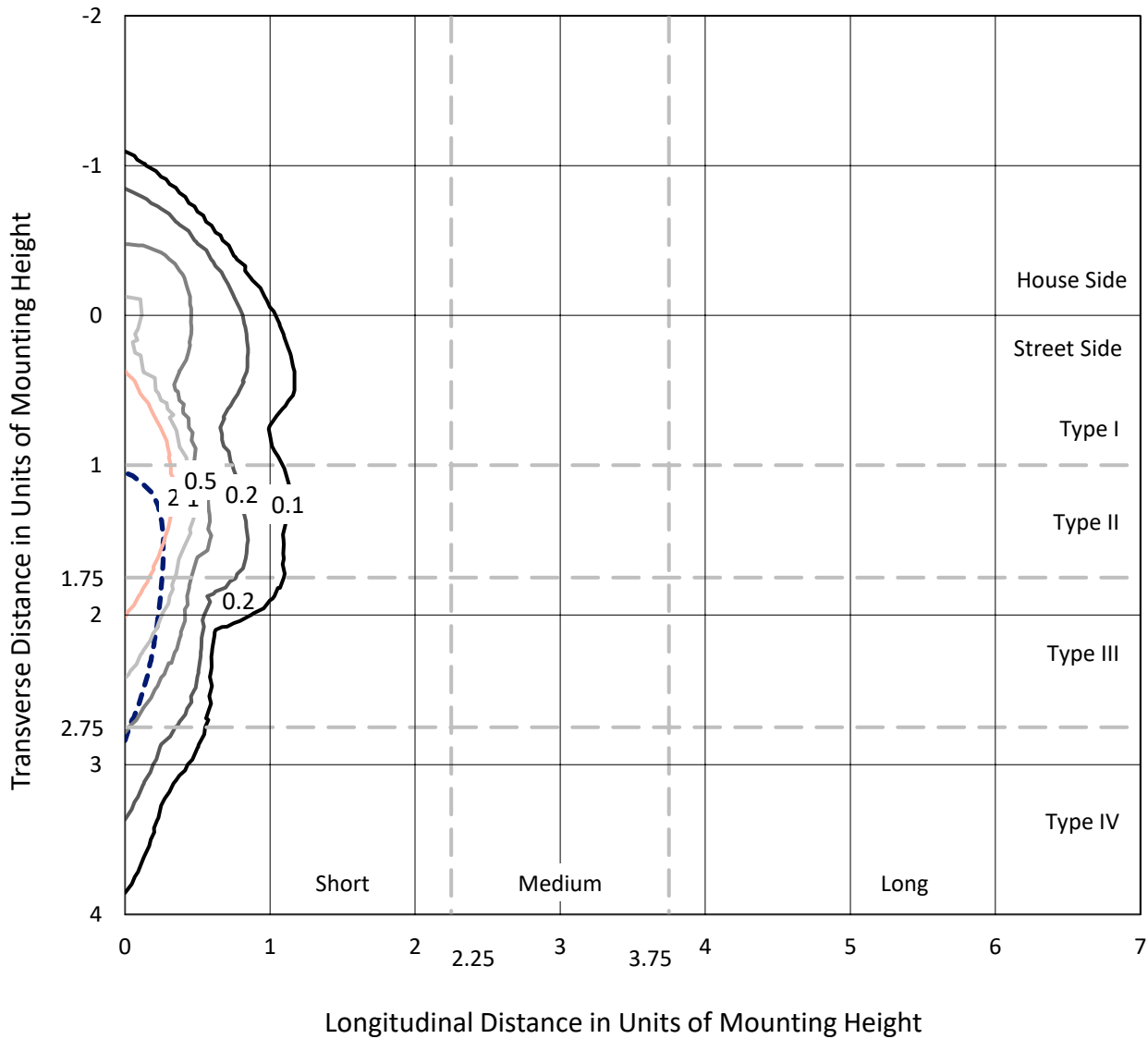
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

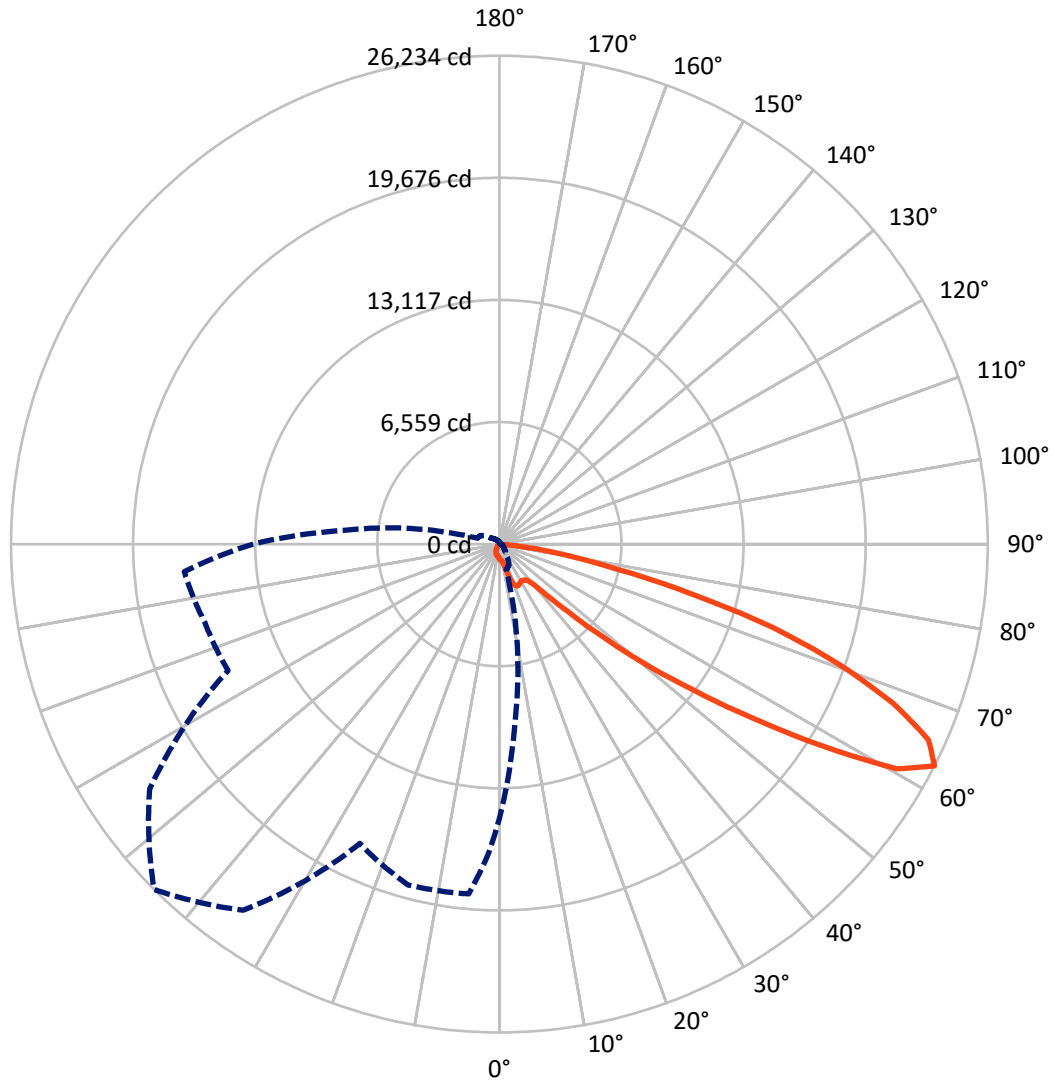
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	1762.2	0.0	1762.2
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	13404.9	0.0	13404.9
	% Fixture	88.4	0.0	88.4
Total	Lumens	15167.1	0.0	15167.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	0.4
10°-20°	232.8	1.5
20°-30°	526.0	3.5
30°-40°	906.1	6.0
40°-50°	1709.2	11.3
50°-60°	3816.2	25.2
60°-70°	5104.1	33.7
70°-80°	2559.5	16.9
80°-90°	245.3	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°	15167.1	100.0
0°-180°	15167.1	100.0

Coefficient of Utilization

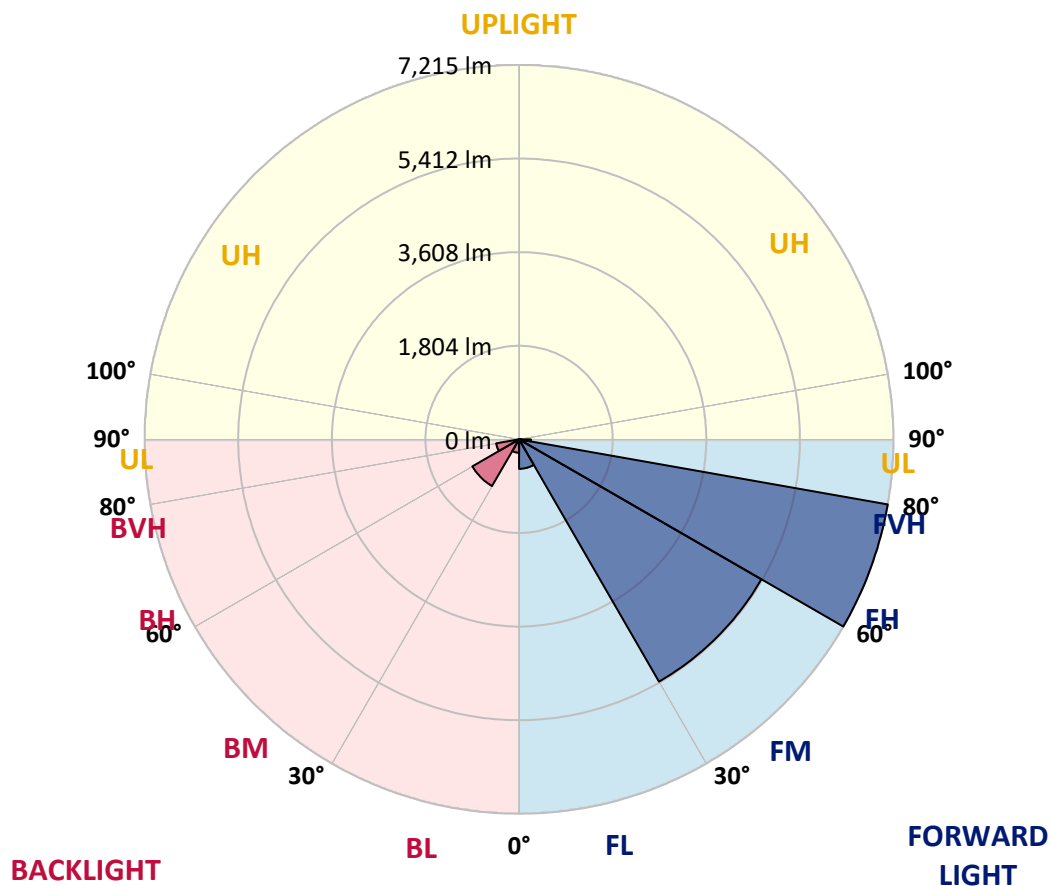


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	568.0	3.7			
FM (30°-60°)	5392.3	35.6			
FH (60°-80°)	7215.5	47.6			G3/7500
FVH (80°-90°)	229.0	1.5			G3/500
BL (0°-30°)	258.7	1.7	B1/500		
BM (30°-60°)	1039.1	6.9	B2/2500		
BH (60°-80°)	448.1	3.0	B1/500		G1/500
BVH (80°-90°)	16.3	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6
2.5°	777.6	775.8	772.2	761.4	752.5	747.1	736.3	736.3	734.5	730.9	723.7
5°	752.5	745.3	738.1	718.3	696.8	684.2	669.9	668.1	668.1	664.5	662.7
7.5°	713.0	705.8	696.8	664.5	644.7	632.1	619.6	617.8	612.4	612.4	612.4
10°	691.4	680.6	666.3	630.3	610.6	599.8	590.8	585.5	581.9	576.5	574.7
12.5°	738.1	718.3	687.8	623.2	596.2	581.9	571.1	567.5	556.7	549.5	544.1
15°	883.6	835.1	774.0	639.3	590.8	569.3	554.9	547.7	538.8	526.2	517.2
17.5°	1122.4	1052.4	950.0	691.4	585.5	558.5	540.6	528.0	515.4	501.0	490.3
20°	1452.9	1348.7	1226.6	786.6	585.5	545.9	524.4	508.2	490.3	474.1	461.5
22.5°	1873.1	1768.9	1560.6	948.2	592.6	529.8	504.6	483.1	461.5	447.2	432.8
25°	2343.6	2196.3	2002.4	1144.0	612.4	508.2	481.3	459.7	440.0	422.0	405.9
27.5°	2868.0	2708.2	2449.6	1422.3	655.5	486.7	456.1	436.4	418.4	400.5	378.9
30°	3351.1	3255.9	2991.9	1756.4	725.5	472.3	436.4	418.4	400.5	377.1	357.4
32.5°	3931.1	3762.3	3545.0	2137.1	818.9	457.9	420.2	395.1	380.7	359.2	337.6
35°	4514.8	4371.1	4085.6	2605.8	923.1	443.6	400.5	377.1	364.6	339.4	316.1
37.5°	5116.4	5084.1	4802.1	3124.8	1025.4	427.4	377.1	362.8	350.2	321.5	294.5
40°	5709.0	5649.8	5389.4	3717.4	1088.3	409.5	357.4	348.4	334.0	301.7	271.2
42.5°	6276.5	6231.6	5978.4	4284.9	1079.3	393.3	337.6	326.8	316.1	283.7	246.0
45°	6973.3	6899.7	6580.0	4705.2	987.7	411.3	317.9	299.9	298.1	267.6	220.9
47.5°	8277.1	8034.7	7492.3	5028.4	896.1	457.9	296.3	274.8	287.3	251.4	195.7
50°	10103.5	9818.0	9033.2	5279.8	894.3	519.0	292.7	251.4	278.4	238.8	174.2
52.5°	11938.9	11436.0	10482.4	5414.5	960.8	563.9	325.1	228.1	267.6	226.3	158.0
55°	13697.0	12653.6	11089.4	4969.2	1012.9	612.4	384.3	215.5	247.8	211.9	149.1
57.5°	15372.6	13632.4	11353.4	3931.1	1187.1	632.1	420.2	220.9	219.1	194.0	141.9
60°	15602.4	13585.7	10820.1	2286.1	1309.2	598.0	405.9	246.0	192.2	172.4	129.3
62.5°	14733.3	12682.4	9604.3	1425.9	1215.8	585.5	361.0	280.2	174.2	152.6	113.1
65°	13413.3	11265.4	8007.7	919.5	921.3	650.1	316.1	274.8	163.4	134.7	97.0
67.5°	11349.8	9428.3	6308.9	616.0	520.8	554.9	276.6	188.6	159.8	114.9	75.4
70°	8284.3	6711.1	4107.1	411.3	310.7	443.6	231.7	134.7	150.9	95.2	53.9
72.5°	6055.6	4509.4	2293.3	269.4	176.0	258.6	170.6	97.0	116.7	70.0	37.7
75°	4358.6	3103.2	1309.2	172.4	116.7	141.9	111.3	66.4	75.4	55.7	34.1
77.5°	2097.6	1512.1	594.4	95.2	79.0	71.8	59.3	41.3	46.7	50.3	30.5
80°	79.0	59.3	44.9	46.7	50.3	32.3	26.9	21.6	26.9	34.1	16.2
82.5°	0.0	0.0	0.0	5.4	7.2	9.0	10.8	9.0	10.8	12.6	1.8
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°	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6
2.5°	729.1	725.5	729.1	732.7	736.3	739.9	734.5	738.1	741.7	732.7	736.3
5°	671.7	669.9	680.6	686.0	693.2	696.8	693.2	693.2	691.4	680.6	680.6
7.5°	621.4	623.2	632.1	644.7	653.7	659.1	655.5	653.7	648.3	632.1	632.1
10°	583.7	583.7	598.0	608.8	621.4	626.8	623.2	617.8	612.4	596.2	594.4
12.5°	553.1	553.1	563.9	581.9	596.2	603.4	601.6	594.4	585.5	569.3	567.5
15°	524.4	522.6	538.8	554.9	574.7	583.7	580.1	574.7	558.5	544.1	540.6
17.5°	495.7	493.9	508.2	529.8	551.3	563.9	562.1	549.5	535.2	517.2	513.6
20°	466.9	463.3	481.3	502.8	524.4	537.0	533.4	522.6	504.6	486.7	483.1
22.5°	438.2	436.4	449.0	466.9	486.7	497.5	495.7	486.7	468.7	452.6	452.6
25°	405.9	405.9	414.8	427.4	441.8	447.2	449.0	445.4	434.6	425.6	425.6
27.5°	378.9	373.5	377.1	380.7	387.9	396.9	396.9	400.5	402.3	398.7	400.5
30°	357.4	348.4	343.0	335.8	332.2	335.8	339.4	352.0	364.6	371.7	375.3
32.5°	332.2	321.5	307.1	287.3	274.8	271.2	282.0	305.3	328.6	344.8	353.8
35°	307.1	292.7	265.8	237.1	220.9	215.5	228.1	255.0	289.1	317.9	330.4
37.5°	282.0	262.2	224.5	190.4	172.4	168.8	181.4	210.1	249.6	289.1	305.3
40°	253.2	229.9	185.0	149.1	134.7	131.1	141.9	170.6	211.9	256.8	282.0
42.5°	224.5	195.7	149.1	118.5	104.2	104.2	118.5	140.1	177.8	226.3	256.8
45°	195.7	165.2	122.1	95.2	86.2	88.0	97.0	118.5	149.1	199.3	228.1
47.5°	168.8	141.9	100.6	79.0	71.8	73.6	84.4	102.4	127.5	172.4	202.9
50°	145.5	120.3	88.0	66.4	61.1	64.7	75.4	91.6	113.1	152.6	177.8
52.5°	131.1	107.8	80.8	57.5	53.9	57.5	68.2	82.6	102.4	134.7	159.8
55°	123.9	106.0	80.8	52.1	46.7	50.3	61.1	75.4	91.6	122.1	143.7
57.5°	122.1	109.5	86.2	46.7	39.5	43.1	53.9	68.2	84.4	111.3	129.3
60°	114.9	104.2	84.4	37.7	30.5	35.9	44.9	59.3	77.2	104.2	120.3
62.5°	100.6	91.6	73.6	30.5	23.3	26.9	37.7	52.1	70.0	95.2	113.1
65°	82.6	73.6	57.5	19.8	14.4	18.0	28.7	44.9	61.1	86.2	102.4
67.5°	61.1	52.1	39.5	12.6	7.2	12.6	23.3	37.7	55.7	77.2	93.4
70°	37.7	30.5	21.6	7.2	5.4	10.8	21.6	35.9	50.3	71.8	88.0
72.5°	21.6	14.4	9.0	3.6	5.4	10.8	21.6	35.9	48.5	68.2	82.6
75°	16.2	9.0	3.6	1.8	3.6	9.0	19.8	32.3	46.7	64.7	79.0
77.5°	10.8	5.4	1.8	0.0	1.8	7.2	18.0	30.5	43.1	61.1	75.4
80°	1.8	0.0	0.0	0.0	0.0	5.4	16.2	26.9	39.5	53.9	66.4
82.5°	0.0	0.0	0.0	0.0	0.0	1.8	12.6	23.3	34.1	44.9	53.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	18.0	26.9	34.1	37.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0	21.6	25.1
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6
2.5°	734.5	745.3	745.3	752.5	761.4	777.6	786.6	799.2	808.1	817.1	820.7
5°	678.8	680.6	682.4	686.0	696.8	714.8	730.9	750.7	774.0	792.0	802.8
7.5°	632.1	632.1	632.1	637.5	648.3	660.9	677.0	704.0	730.9	752.5	770.4
10°	592.6	598.0	599.8	608.8	621.4	637.5	655.5	678.8	709.4	738.1	770.4
12.5°	567.5	572.9	581.9	590.8	603.4	621.4	641.1	671.7	734.5	793.8	862.0
15°	544.1	551.3	562.1	574.7	589.0	608.8	630.3	693.2	840.5	951.8	1059.6
17.5°	519.0	529.8	544.1	556.7	574.7	596.2	623.2	745.3	1034.4	1219.4	1402.6
20°	486.7	501.0	517.2	537.0	558.5	583.7	623.2	853.0	1314.6	1580.4	1822.8
22.5°	456.1	470.5	490.3	515.4	540.6	565.7	632.1	1016.5	1675.5	2011.4	2318.5
25°	431.0	449.0	468.7	490.3	519.0	547.7	653.7	1246.3	2110.1	2542.9	2760.2
27.5°	407.7	429.2	449.0	466.9	492.1	524.4	702.2	1553.4	2623.8	3063.7	3234.3
30°	384.3	409.5	429.2	447.2	472.3	506.4	775.8	1944.9	3194.8	3622.3	3640.2
32.5°	364.6	387.9	411.3	429.2	452.6	492.1	878.2	2402.9	3780.3	4193.3	4024.5
35°	343.0	369.9	391.5	411.3	436.4	479.5	996.7	2896.7	4371.1	4717.7	4407.0
37.5°	321.5	352.0	378.9	393.3	418.4	466.9	1082.9	3412.1	4974.5	5229.6	4742.9
40°	301.7	335.8	366.4	380.7	393.3	450.8	1095.5	3940.1	5586.9	5734.2	5058.9
42.5°	280.2	317.9	344.8	364.6	375.3	440.0	1020.0	4385.5	6100.5	6237.0	5472.0
45°	256.8	301.7	323.3	337.6	359.2	447.2	923.1	4730.3	6687.8	6923.0	6152.6
47.5°	233.5	283.7	301.7	312.5	341.2	490.3	887.2	4960.2	7655.8	8144.2	7300.2
50°	211.9	267.6	287.3	285.5	337.6	545.9	926.7	5134.4	9110.4	9685.1	8873.4
52.5°	188.6	249.6	273.0	265.8	364.6	589.0	1005.7	5272.7	10229.2	11491.7	10987.1
55°	168.8	229.9	251.4	249.6	414.8	621.4	1066.7	4543.5	10692.6	13170.9	13368.4
57.5°	154.4	208.3	226.3	256.8	447.2	621.4	1233.8	3225.4	10701.5	14406.4	16529.1
60°	141.9	188.6	201.1	282.0	434.6	589.0	1221.2	1975.4	9862.9	14322.0	18210.0
62.5°	131.1	170.6	186.8	289.1	384.3	583.7	1102.7	1224.8	8411.8	13231.9	16990.7
65°	122.1	156.2	179.6	265.8	348.4	625.0	743.5	880.0	6822.5	11989.2	15591.7
67.5°	113.1	143.7	190.4	217.3	316.1	558.5	537.0	625.0	5355.3	10626.1	14307.6
70°	106.0	136.5	201.1	177.8	276.6	436.4	380.7	474.1	4100.0	8866.2	12499.2
72.5°	100.6	127.5	168.8	140.1	224.5	337.6	265.8	344.8	2679.4	6921.3	10189.7
75°	95.2	116.7	123.9	113.1	167.0	220.9	201.1	231.7	1596.5	5058.9	7731.2
77.5°	93.4	109.5	100.6	91.6	113.1	131.1	152.6	156.2	779.4	2530.4	4051.5
80°	82.6	98.8	86.2	75.4	77.2	86.2	113.1	104.2	177.8	642.9	1081.1
82.5°	64.7	77.2	71.8	62.9	62.9	62.9	75.4	70.0	57.5	289.1	488.5
85°	44.9	53.9	53.9	50.3	48.5	48.5	46.7	44.9	16.2	18.0	26.9
87.5°	30.5	37.7	39.5	37.7	32.3	28.7	25.1	21.6	7.2	0.0	3.6
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-SA4D-750-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6
2.5°	833.3	838.7	838.7	831.5	826.1	811.7	797.4	783.0	779.4	777.6
5°	833.3	854.8	865.6	863.8	851.2	827.9	797.4	765.0	756.1	752.5
7.5°	820.7	862.0	894.3	899.7	876.4	835.1	779.4	730.9	718.3	713.0
10°	849.4	930.3	994.9	1003.9	976.9	896.1	806.3	723.7	704.0	691.4
12.5°	1003.9	1136.8	1215.8	1253.5	1201.4	1099.1	950.0	802.8	757.9	738.1
15°	1316.4	1504.9	1655.8	1655.8	1607.3	1425.9	1237.3	998.5	937.4	883.6
17.5°	1716.8	1953.9	2086.8	2072.4	1998.8	1871.3	1645.0	1302.0	1178.1	1122.4
20°	2173.0	2314.9	2345.4	2336.4	2304.1	2230.5	2074.2	1706.1	1539.1	1452.9
22.5°	2568.1	2530.4	2485.5	2449.6	2440.6	2462.1	2440.6	2156.8	2025.7	1873.1
25°	2835.7	2622.0	2487.3	2422.6	2453.1	2577.1	2711.8	2605.8	2501.6	2343.6
27.5°	2981.1	2611.2	2417.2	2350.8	2402.9	2578.9	2871.6	3051.2	2943.4	2868.0
30°	3060.1	2602.2	2372.3	2307.7	2386.7	2607.6	2982.9	3467.8	3471.4	3351.1
32.5°	3173.3	2659.7	2381.3	2322.0	2428.0	2693.8	3123.0	3891.6	3995.8	3931.1
35°	3300.8	2747.7	2422.6	2368.7	2499.8	2808.7	3279.2	4319.0	4536.3	4514.8
37.5°	3421.1	2846.4	2519.6	2467.5	2609.4	2907.5	3430.1	4739.3	5041.0	5116.4
40°	3546.8	2984.7	2817.7	2868.0	2947.0	3063.7	3564.8	5103.8	5595.9	5709.0
42.5°	3843.1	3464.2	3719.2	3814.4	3825.2	3584.5	3859.3	5570.8	6141.8	6276.5
45°	4504.0	4317.3	5048.2	5182.9	5112.8	4383.7	4568.7	6244.2	6905.1	6973.3
47.5°	5339.1	5425.3	6867.4	7332.5	6912.3	5326.5	5428.9	7661.1	8302.3	8277.1
50°	6312.5	6720.1	8932.6	10029.9	9024.2	6551.3	6420.2	9403.1	10180.7	10103.5
52.5°	7463.6	8225.0	11414.5	12973.3	12021.5	7928.7	7874.9	11710.8	12184.9	11938.9
55°	8912.9	9677.9	14269.9	16448.3	15094.2	9609.7	9794.6	14386.7	14478.2	13697.0
57.5°	11075.1	11572.5	17635.4	20433.3	18301.6	11894.0	13235.5	17947.8	16852.4	15372.6
60°	15000.8	14009.5	20887.7	24509.9	21713.8	15106.8	17773.6	20058.0	17642.5	15602.4
62.5°	16367.5	16078.4	22924.2	26234.0	24008.9	17744.9	18953.5	18861.9	16618.9	14733.3
65°	14296.9	15562.9	22559.6	25323.5	23714.4	17310.3	17008.6	17542.0	15466.0	13413.3
67.5°	13206.8	14352.5	21178.6	22811.0	22081.9	15835.9	15160.7	15015.2	12984.1	11349.8
70°	12107.7	13242.7	19176.2	19379.1	19039.7	13433.0	12545.9	11570.7	9704.8	8284.3
72.5°	10785.9	11410.9	16398.0	15435.4	15051.1	10550.7	10363.9	8713.5	7275.0	6055.6
75°	9406.7	9225.3	12784.7	10593.8	10881.1	8208.9	8753.0	6398.7	5330.1	4358.6
77.5°	6842.2	6707.5	8562.7	6434.6	7126.0	5376.8	4830.9	2553.7	2431.6	2097.6
80°	3818.0	4602.8	4624.3	3606.1	4498.6	3505.5	1208.6	84.4	53.9	79.0
82.5°	1774.3	1979.0	2507.0	1671.9	2566.3	1736.6	249.6	0.0	0.0	0.0
85°	574.7	840.5	704.0	246.0	621.4	587.2	41.3	0.0	0.0	0.0
87.5°	34.1	70.0	18.0	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

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