

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: P632871

Luminaire Tested: GWS-SA2D-750-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632871
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-SA2D-750-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7231.5 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

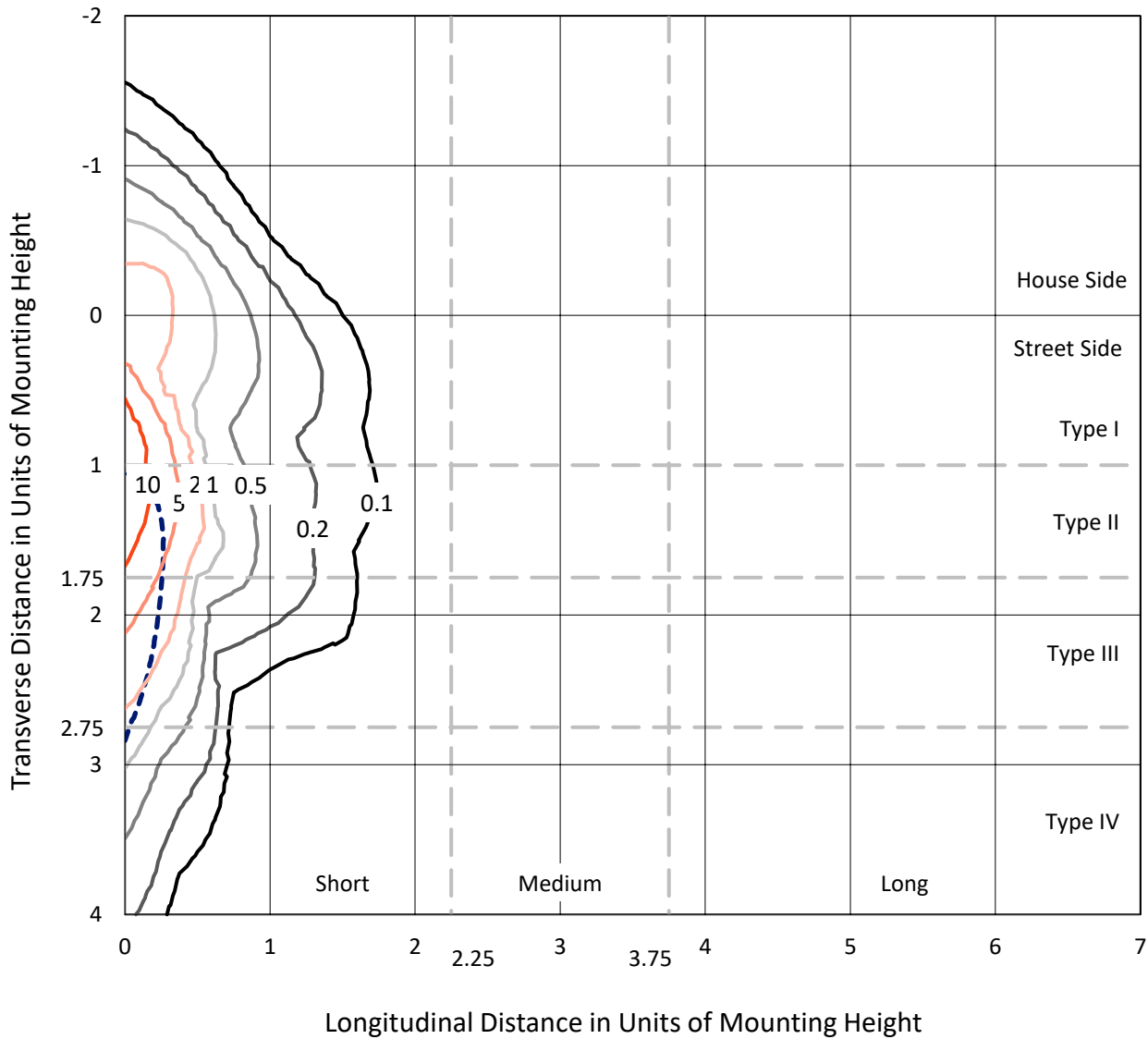
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

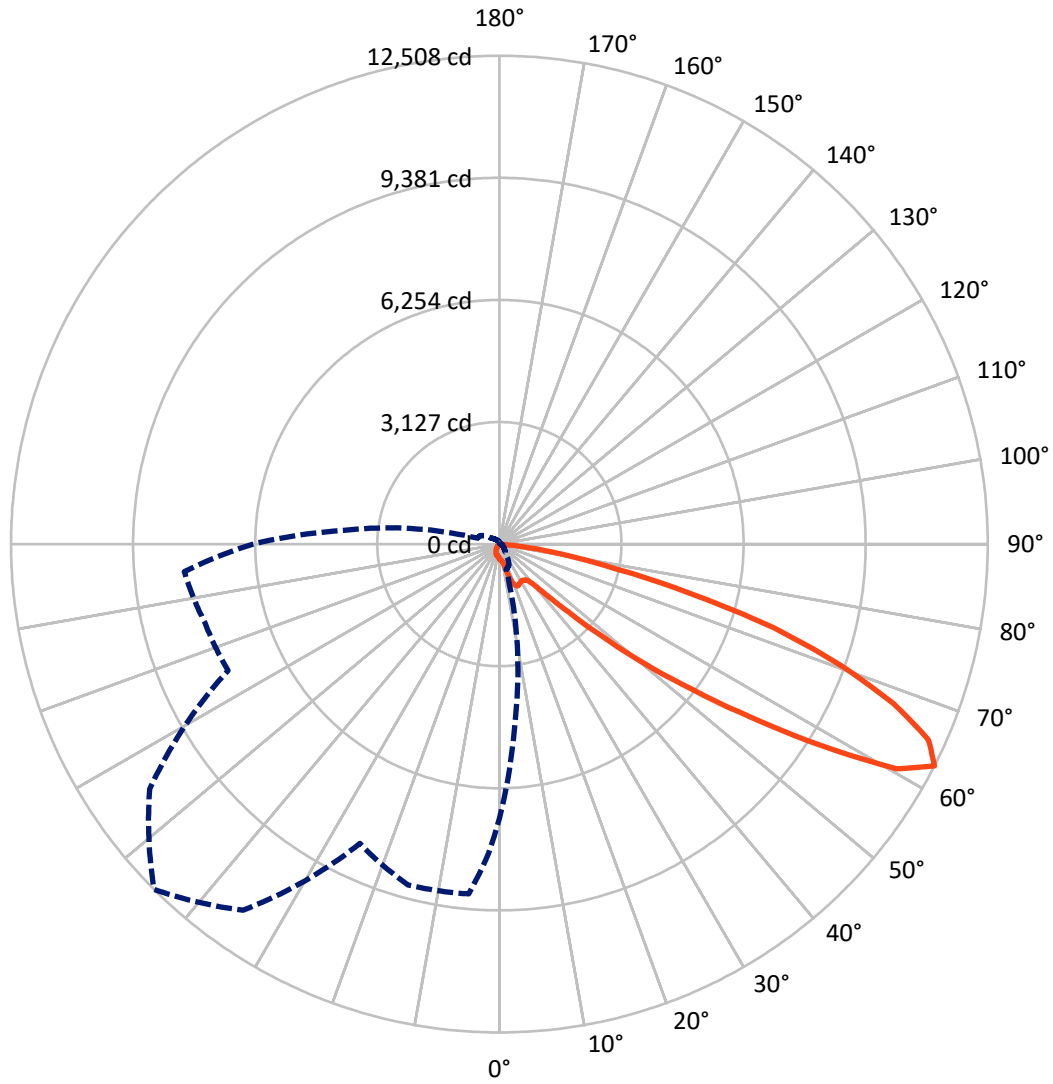
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 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	840.2	0.0	840.2
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	6391.3	0.0	6391.3
	% Fixture	88.4	0.0	88.4
Total	Lumens	7231.5	0.0	7231.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	0.4
10°-20°	111.0	1.5
20°-30°	250.8	3.5
30°-40°	432.0	6.0
40°-50°	814.9	11.3
50°-60°	1819.5	25.2
60°-70°	2433.6	33.7
70°-80°	1220.4	16.9
80°-90°	117.0	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°	7231.5	100.0
0°-180°	7231.5	100.0

Coefficient of Utilization

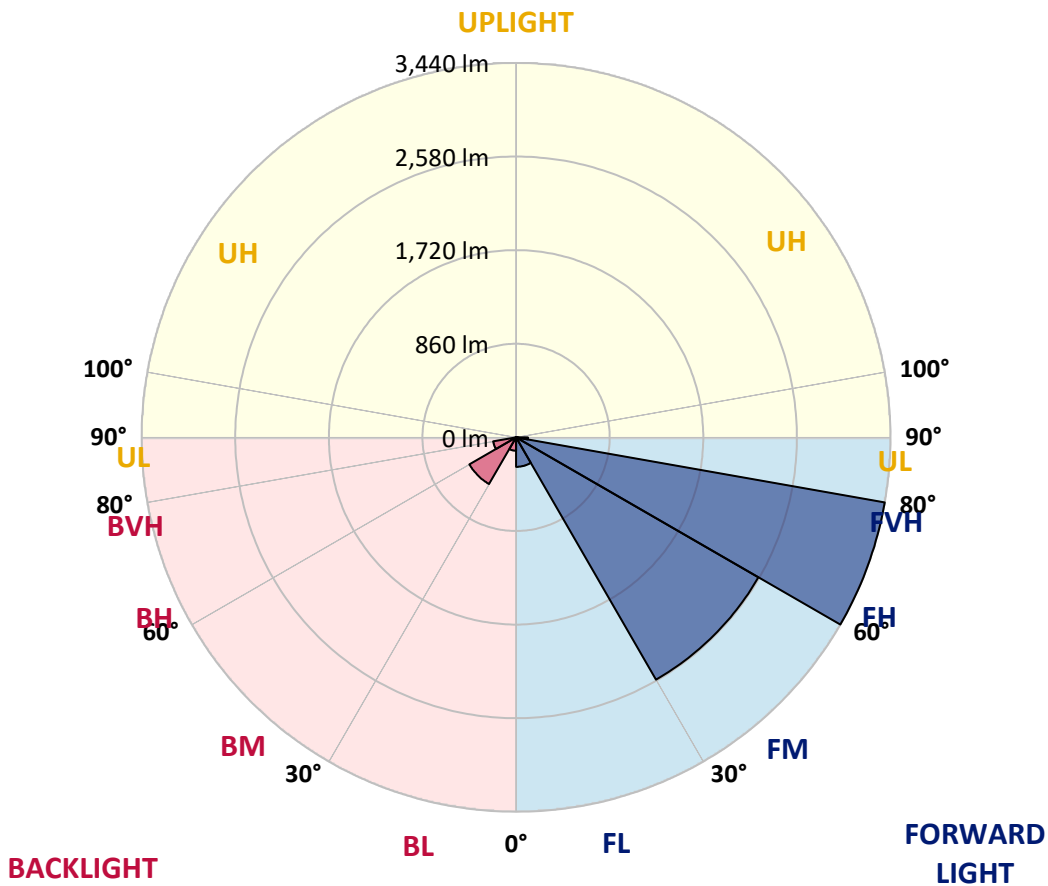


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	270.8	3.7			
FM (30°-60°)	2571.0	35.6			
FH (60°-80°)	3440.3	47.6			G2/5000
FVH (80°-90°)	109.2	1.5			G2/225
BL (0°-30°)	123.3	1.7	B1/500		
BM (30°-60°)	495.4	6.9	B1/1000		
BH (60°-80°)	213.7	3.0	B1/500		G1/500
BVH (80°-90°)	7.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0
2.5°	370.8	369.9	368.2	363.0	358.8	356.2	351.1	351.1	350.2	348.5	345.1
5°	358.8	355.3	351.9	342.5	332.2	326.2	319.4	318.5	318.5	316.8	316.0
7.5°	339.9	336.5	332.2	316.8	307.4	301.4	295.4	294.5	292.0	292.0	292.0
10°	329.7	324.5	317.7	300.5	291.1	286.0	281.7	279.1	277.4	274.9	274.0
12.5°	351.9	342.5	327.9	297.1	284.3	277.4	272.3	270.6	265.4	262.0	259.4
15°	421.3	398.2	369.0	304.8	281.7	271.4	264.6	261.2	256.9	250.9	246.6
17.5°	535.2	501.8	453.0	329.7	279.1	266.3	257.7	251.7	245.7	238.9	233.8
20°	692.7	643.0	584.8	375.0	279.1	260.3	250.0	242.3	233.8	226.0	220.1
22.5°	893.1	843.4	744.1	452.1	282.6	252.6	240.6	230.3	220.1	213.2	206.4
25°	1117.4	1047.2	954.7	545.4	292.0	242.3	229.5	219.2	209.8	201.2	193.5
27.5°	1367.4	1291.2	1167.9	678.1	312.5	232.0	217.5	208.1	199.5	190.9	180.7
30°	1597.8	1552.4	1426.5	837.4	345.9	225.2	208.1	199.5	190.9	179.8	170.4
32.5°	1874.3	1793.8	1690.2	1018.9	390.4	218.3	200.4	188.4	181.5	171.2	161.0
35°	2152.6	2084.1	1948.0	1242.4	440.1	211.5	190.9	179.8	173.8	161.8	150.7
37.5°	2439.4	2424.0	2289.6	1489.9	488.9	203.8	179.8	173.0	167.0	153.3	140.4
40°	2722.0	2693.8	2569.6	1772.4	518.9	195.2	170.4	166.1	159.3	143.8	129.3
42.5°	2992.6	2971.2	2850.4	2043.0	514.6	187.5	161.0	155.8	150.7	135.3	117.3
45°	3324.8	3289.7	3137.3	2243.4	470.9	196.1	151.6	143.0	142.1	127.6	105.3
47.5°	3946.4	3830.8	3572.3	2397.5	427.3	218.3	141.3	131.0	137.0	119.9	93.3
50°	4817.2	4681.1	4306.9	2517.4	426.4	247.5	139.6	119.9	132.7	113.9	83.1
52.5°	5692.3	5452.6	4997.9	2581.6	458.1	268.9	155.0	108.7	127.6	107.9	75.3
55°	6530.6	6033.1	5287.3	2369.2	482.9	292.0	183.2	102.7	118.2	101.0	71.1
57.5°	7329.5	6499.8	5413.2	1874.3	566.0	301.4	200.4	105.3	104.5	92.5	67.6
60°	7439.1	6477.5	5158.9	1090.0	624.2	285.1	193.5	117.3	91.6	82.2	61.6
62.5°	7024.6	6046.8	4579.2	679.9	579.7	279.1	172.1	133.6	83.1	72.8	53.9
65°	6395.3	5371.2	3818.0	438.4	439.3	310.0	150.7	131.0	77.9	64.2	46.2
67.5°	5411.5	4495.3	3008.0	293.7	248.3	264.6	131.9	89.9	76.2	54.8	36.0
70°	3949.9	3199.8	1958.2	196.1	148.1	211.5	110.5	64.2	71.9	45.4	25.7
72.5°	2887.3	2150.0	1093.4	128.4	83.9	123.3	81.3	46.2	55.7	33.4	18.0
75°	2078.1	1479.6	624.2	82.2	55.7	67.6	53.1	31.7	36.0	26.5	16.3
77.5°	1000.1	721.0	283.4	45.4	37.7	34.2	28.3	19.7	22.3	24.0	14.6
80°	37.7	28.3	21.4	22.3	24.0	15.4	12.8	10.3	12.8	16.3	7.7
82.5°	0.0	0.0	0.0	2.6	3.4	4.3	5.1	4.3	5.1	6.0	0.9
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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CATALOG NUMBER: GWS-SA2D-750-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0
2.5°	347.6	345.9	347.6	349.3	351.1	352.8	350.2	351.9	353.6	349.3	351.1
5°	320.2	319.4	324.5	327.1	330.5	332.2	330.5	330.5	329.7	324.5	324.5
7.5°	296.3	297.1	301.4	307.4	311.7	314.2	312.5	311.7	309.1	301.4	301.4
10°	278.3	278.3	285.1	290.3	296.3	298.8	297.1	294.5	292.0	284.3	283.4
12.5°	263.7	263.7	268.9	277.4	284.3	287.7	286.8	283.4	279.1	271.4	270.6
15°	250.0	249.2	256.9	264.6	274.0	278.3	276.6	274.0	266.3	259.4	257.7
17.5°	236.3	235.5	242.3	252.6	262.9	268.9	268.0	262.0	255.2	246.6	244.9
20°	222.6	220.9	229.5	239.7	250.0	256.0	254.3	249.2	240.6	232.0	230.3
22.5°	208.9	208.1	214.1	222.6	232.0	237.2	236.3	232.0	223.5	215.8	215.8
25°	193.5	193.5	197.8	203.8	210.6	213.2	214.1	212.3	207.2	202.9	202.9
27.5°	180.7	178.1	179.8	181.5	184.9	189.2	189.2	190.9	191.8	190.1	190.9
30°	170.4	166.1	163.5	160.1	158.4	160.1	161.8	167.8	173.8	177.2	179.0
32.5°	158.4	153.3	146.4	137.0	131.0	129.3	134.4	145.6	156.7	164.4	168.7
35°	146.4	139.6	126.7	113.0	105.3	102.7	108.7	121.6	137.9	151.6	157.5
37.5°	134.4	125.0	107.0	90.8	82.2	80.5	86.5	100.2	119.0	137.9	145.6
40°	120.7	109.6	88.2	71.1	64.2	62.5	67.6	81.3	101.0	122.4	134.4
42.5°	107.0	93.3	71.1	56.5	49.7	49.7	56.5	66.8	84.8	107.9	122.4
45°	93.3	78.8	58.2	45.4	41.1	42.0	46.2	56.5	71.1	95.0	108.7
47.5°	80.5	67.6	47.9	37.7	34.2	35.1	40.2	48.8	60.8	82.2	96.8
50°	69.4	57.4	42.0	31.7	29.1	30.8	36.0	43.7	53.9	72.8	84.8
52.5°	62.5	51.4	38.5	27.4	25.7	27.4	32.5	39.4	48.8	64.2	76.2
55°	59.1	50.5	38.5	24.8	22.3	24.0	29.1	36.0	43.7	58.2	68.5
57.5°	58.2	52.2	41.1	22.3	18.8	20.5	25.7	32.5	40.2	53.1	61.6
60°	54.8	49.7	40.2	18.0	14.6	17.1	21.4	28.3	36.8	49.7	57.4
62.5°	47.9	43.7	35.1	14.6	11.1	12.8	18.0	24.8	33.4	45.4	53.9
65°	39.4	35.1	27.4	9.4	6.8	8.6	13.7	21.4	29.1	41.1	48.8
67.5°	29.1	24.8	18.8	6.0	3.4	6.0	11.1	18.0	26.5	36.8	44.5
70°	18.0	14.6	10.3	3.4	2.6	5.1	10.3	17.1	24.0	34.2	42.0
72.5°	10.3	6.8	4.3	1.7	2.6	5.1	10.3	17.1	23.1	32.5	39.4
75°	7.7	4.3	1.7	0.9	1.7	4.3	9.4	15.4	22.3	30.8	37.7
77.5°	5.1	2.6	0.9	0.0	0.9	3.4	8.6	14.6	20.5	29.1	36.0
80°	0.9	0.0	0.0	0.0	0.0	2.6	7.7	12.8	18.8	25.7	31.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.9	6.0	11.1	16.3	21.4	25.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	8.6	12.8	16.3	18.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.6	10.3	12.0
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°	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0
2.5°	350.2	355.3	355.3	358.8	363.0	370.8	375.0	381.0	385.3	389.6	391.3
5°	323.7	324.5	325.4	327.1	332.2	340.8	348.5	357.9	369.0	377.6	382.7
7.5°	301.4	301.4	301.4	304.0	309.1	315.1	322.8	335.6	348.5	358.8	367.3
10°	282.6	285.1	286.0	290.3	296.3	304.0	312.5	323.7	338.2	351.9	367.3
12.5°	270.6	273.1	277.4	281.7	287.7	296.3	305.7	320.2	350.2	378.5	411.0
15°	259.4	262.9	268.0	274.0	280.8	290.3	300.5	330.5	400.7	453.8	505.2
17.5°	247.5	252.6	259.4	265.4	274.0	284.3	297.1	355.3	493.2	581.4	668.7
20°	232.0	238.9	246.6	256.0	266.3	278.3	297.1	406.7	626.8	753.5	869.1
22.5°	217.5	224.3	233.8	245.7	257.7	269.7	301.4	484.6	798.9	959.0	1105.4
25°	205.5	214.1	223.5	233.8	247.5	261.2	311.7	594.2	1006.1	1212.4	1316.1
27.5°	194.4	204.6	214.1	222.6	234.6	250.0	334.8	740.7	1251.0	1460.8	1542.1
30°	183.2	195.2	204.6	213.2	225.2	241.5	369.9	927.3	1523.3	1727.0	1735.6
32.5°	173.8	184.9	196.1	204.6	215.8	234.6	418.7	1145.7	1802.4	1999.3	1918.8
35°	163.5	176.4	186.7	196.1	208.1	228.6	475.2	1381.1	2084.1	2249.4	2101.2
37.5°	153.3	167.8	180.7	187.5	199.5	222.6	516.3	1626.9	2371.8	2493.4	2261.3
40°	143.8	160.1	174.7	181.5	187.5	214.9	522.3	1878.6	2663.8	2734.0	2412.0
42.5°	133.6	151.6	164.4	173.8	179.0	209.8	486.3	2091.0	2908.7	2973.7	2609.0
45°	122.4	143.8	154.1	161.0	171.2	213.2	440.1	2255.4	3188.7	3300.8	2933.5
47.5°	111.3	135.3	143.8	149.0	162.7	233.8	423.0	2365.0	3650.2	3883.1	3480.6
50°	101.0	127.6	137.0	136.1	161.0	260.3	441.8	2448.0	4343.7	4617.7	4230.7
52.5°	89.9	119.0	130.1	126.7	173.8	280.8	479.5	2513.9	4877.2	5479.1	5238.5
55°	80.5	109.6	119.9	119.0	197.8	296.3	508.6	2166.3	5098.1	6279.7	6373.9
57.5°	73.6	99.3	107.9	122.4	213.2	296.3	588.2	1537.8	5102.4	6868.8	7880.9
60°	67.6	89.9	95.9	134.4	207.2	280.8	582.2	941.9	4702.5	6828.6	8682.3
62.5°	62.5	81.3	89.0	137.9	183.2	278.3	525.7	584.0	4010.7	6308.8	8100.9
65°	58.2	74.5	85.6	126.7	166.1	298.0	354.5	419.6	3252.9	5716.3	7433.9
67.5°	53.9	68.5	90.8	103.6	150.7	266.3	256.0	298.0	2553.3	5066.4	6821.7
70°	50.5	65.1	95.9	84.8	131.9	208.1	181.5	226.0	1954.8	4227.3	5959.5
72.5°	47.9	60.8	80.5	66.8	107.0	161.0	126.7	164.4	1277.5	3300.0	4858.3
75°	45.4	55.7	59.1	53.9	79.6	105.3	95.9	110.5	761.2	2412.0	3686.1
77.5°	44.5	52.2	47.9	43.7	53.9	62.5	72.8	74.5	371.6	1206.5	1931.7
80°	39.4	47.1	41.1	36.0	36.8	41.1	53.9	49.7	84.8	306.5	515.5
82.5°	30.8	36.8	34.2	30.0	30.0	30.0	36.0	33.4	27.4	137.9	232.9
85°	21.4	25.7	25.7	24.0	23.1	23.1	22.3	21.4	7.7	8.6	12.8
87.5°	14.6	18.0	18.8	18.0	15.4	13.7	12.0	10.3	3.4	0.0	1.7
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-SA2D-750-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0
2.5°	397.3	399.9	399.9	396.4	393.9	387.0	380.2	373.3	371.6	370.8
5°	397.3	407.6	412.7	411.9	405.9	394.7	380.2	364.8	360.5	358.8
7.5°	391.3	411.0	426.4	429.0	417.8	398.2	371.6	348.5	342.5	339.9
10°	405.0	443.5	474.4	478.6	465.8	427.3	384.5	345.1	335.6	329.7
12.5°	478.6	542.0	579.7	597.7	572.8	524.0	453.0	382.7	361.3	351.9
15°	627.6	717.5	789.5	789.5	766.3	679.9	590.0	476.1	447.0	421.3
17.5°	818.6	931.6	995.0	988.1	953.0	892.2	784.3	620.8	561.7	535.2
20°	1036.1	1103.7	1118.3	1114.0	1098.6	1063.5	989.0	813.4	733.8	692.7
22.5°	1224.4	1206.5	1185.0	1167.9	1163.6	1173.9	1163.6	1028.4	965.8	893.1
25°	1352.0	1250.1	1185.9	1155.1	1169.6	1228.7	1292.9	1242.4	1192.8	1117.4
27.5°	1421.4	1245.0	1152.5	1120.8	1145.7	1229.6	1369.1	1454.8	1403.4	1367.4
30°	1459.0	1240.7	1131.1	1100.3	1138.0	1243.3	1422.2	1653.4	1655.1	1597.8
32.5°	1513.0	1268.1	1135.4	1107.1	1157.6	1284.4	1489.0	1855.5	1905.1	1874.3
35°	1573.8	1310.1	1155.1	1129.4	1191.9	1339.2	1563.5	2059.3	2162.9	2152.6
37.5°	1631.1	1357.2	1201.3	1176.5	1244.1	1386.3	1635.4	2259.6	2403.5	2439.4
40°	1691.1	1423.1	1343.5	1367.4	1405.1	1460.8	1699.6	2433.5	2668.1	2722.0
42.5°	1832.4	1651.7	1773.3	1818.7	1823.8	1709.1	1840.1	2656.1	2928.4	2992.6
45°	2147.5	2058.4	2406.9	2471.1	2437.7	2090.1	2178.3	2977.2	3292.3	3324.8
47.5°	2545.6	2586.7	3274.3	3496.1	3295.7	2539.6	2588.4	3652.7	3958.4	3946.4
50°	3009.7	3204.1	4259.0	4782.1	4302.6	3123.6	3061.1	4483.3	4854.1	4817.2
52.5°	3558.6	3921.6	5442.3	6185.5	5731.7	3780.3	3754.6	5583.6	5809.6	5692.3
55°	4249.6	4614.3	6803.7	7842.4	7196.8	4581.8	4670.0	6859.4	6903.1	6530.6
57.5°	5280.5	5517.7	8408.3	9742.4	8726.0	5670.9	6310.5	8557.3	8035.0	7329.5
60°	7152.2	6679.6	9959.0	11686.1	10352.9	7202.7	8474.3	9563.4	8411.8	7439.1
62.5°	7803.8	7666.0	10930.0	12508.0	11447.2	8460.6	9036.8	8993.2	7923.7	7024.6
65°	6816.6	7420.2	10756.2	12073.9	11306.7	8253.4	8109.5	8363.8	7374.0	6395.3
67.5°	6296.8	6843.1	10097.7	10876.0	10528.4	7550.4	7228.4	7159.1	6190.7	5411.5
70°	5772.8	6314.0	9143.0	9239.8	9077.9	6404.7	5981.7	5516.8	4627.2	3949.9
72.5°	5142.6	5440.6	7818.4	7359.4	7176.2	5030.4	4941.4	4154.5	3468.7	2887.3
75°	4485.0	4398.5	6095.6	5051.0	5188.0	3913.9	4173.3	3050.8	2541.3	2078.1
77.5°	3262.3	3198.1	4082.6	3067.9	3397.6	2563.6	2303.3	1217.6	1159.4	1000.1
80°	1820.4	2194.6	2204.8	1719.3	2144.9	1671.4	576.3	40.2	25.7	37.7
82.5°	846.0	943.6	1195.3	797.2	1223.6	828.0	119.0	0.0	0.0	0.0
85°	274.0	400.7	335.6	117.3	296.3	280.0	19.7	0.0	0.0	0.0
87.5°	16.3	33.4	8.6	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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