

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: P637986

Luminaire Tested: GWS-SA4D-830-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637986
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-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11778.7 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

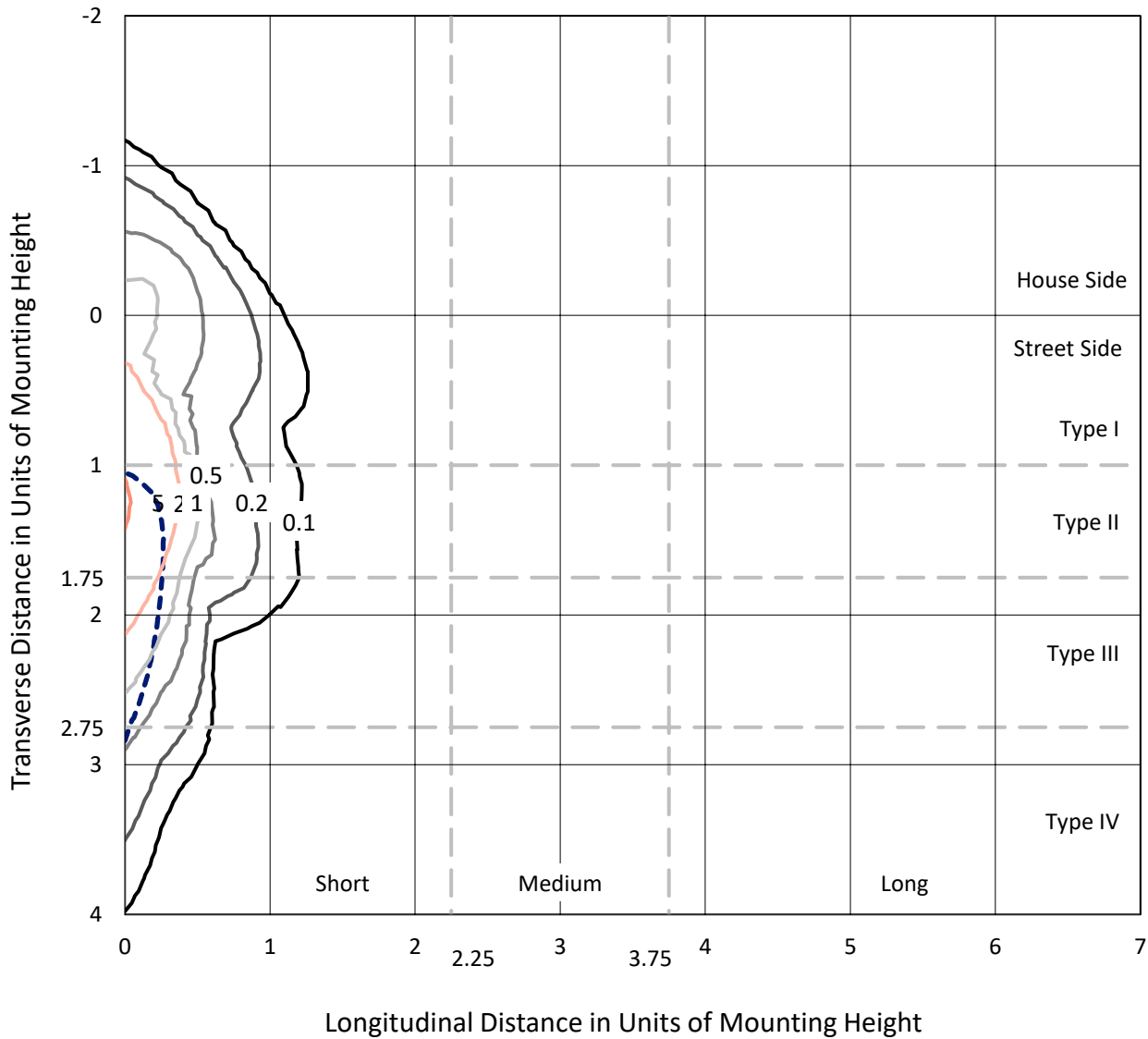
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

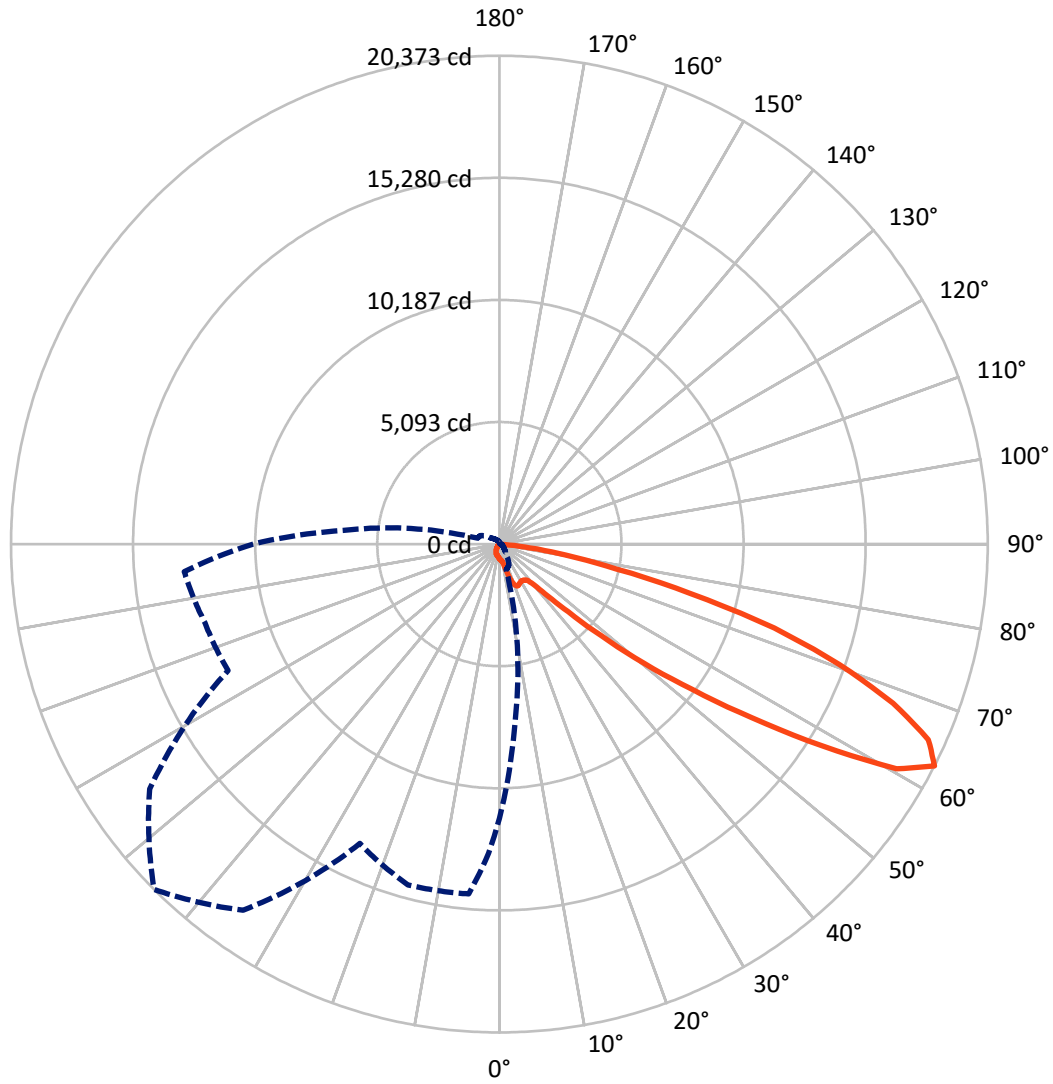
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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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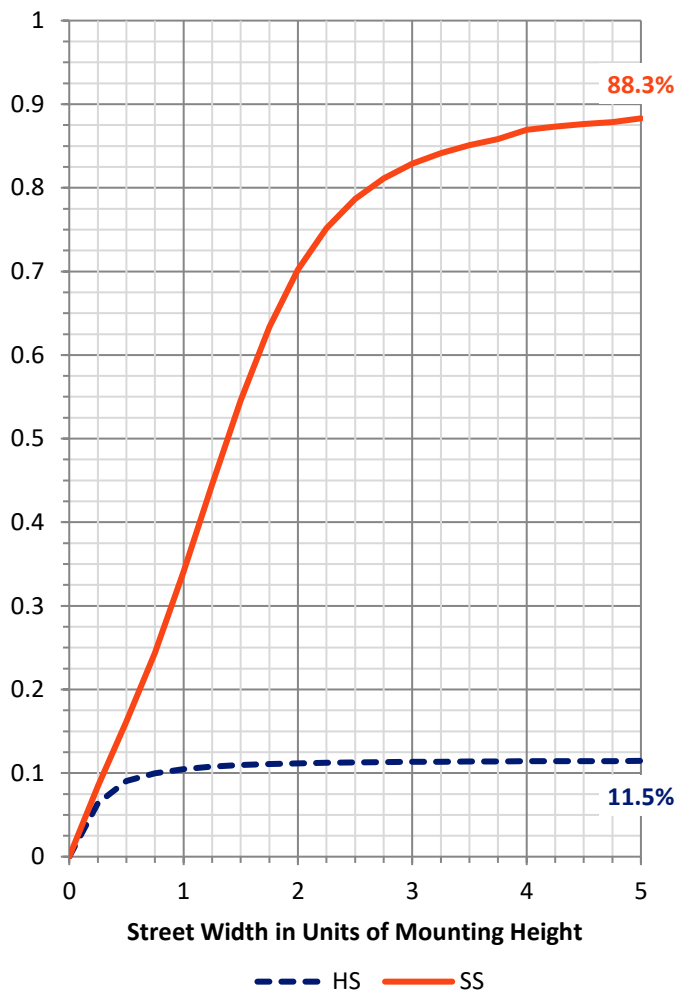
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1368.5	0.0	1368.5
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	10410.2	0.0	10410.2
	% Fixture	88.4	0.0	88.4
Total	Lumens	11778.7	0.0	11778.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	0.4
10°-20°	180.8	1.5
20°-30°	408.5	3.5
30°-40°	703.7	6.0
40°-50°	1327.4	11.3
50°-60°	2963.6	25.2
60°-70°	3963.8	33.7
70°-80°	1987.7	16.9
80°-90°	190.5	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°	11778.7	100.0
0°-180°	11778.7	100.0

Coefficient of Utilization

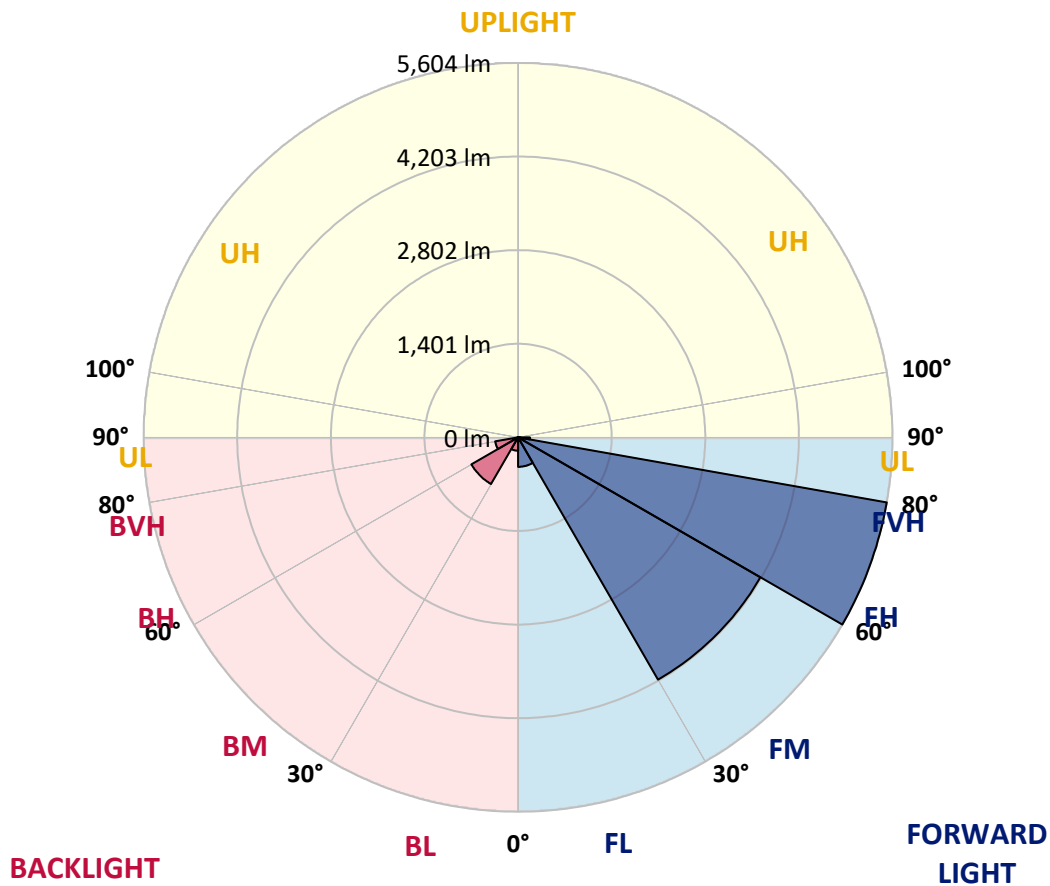


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.1	3.7			
FM (30°-60°)	4187.7	35.6			
FH (60°-80°)	5603.5	47.6			G3/7500
FVH (80°-90°)	177.8	1.5			G2/225
BL (0°-30°)	200.9	1.7	B1/500		
BM (30°-60°)	807.0	6.9	B1/1000		
BH (60°-80°)	348.0	3.0	B1/500		G1/500
BVH (80°-90°)	12.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9
2.5°	603.9	602.5	599.7	591.3	584.4	580.2	571.8	571.8	570.4	567.6	562.0
5°	584.4	578.8	573.2	557.9	541.1	531.4	520.2	518.8	518.8	516.0	514.6
7.5°	553.7	548.1	541.1	516.0	500.7	490.9	481.2	479.8	475.6	475.6	475.6
10°	536.9	528.6	517.4	489.5	474.2	465.8	458.8	454.7	451.9	447.7	446.3
12.5°	573.2	557.9	534.2	483.9	463.0	451.9	443.5	440.7	432.3	426.8	422.6
15°	686.2	648.5	601.1	496.5	458.8	442.1	430.9	425.4	418.4	408.6	401.7
17.5°	871.7	817.3	737.8	536.9	454.7	433.7	419.8	410.0	400.3	389.1	380.7
20°	1128.3	1047.4	952.6	610.9	454.7	424.0	407.2	394.7	380.7	368.2	358.4
22.5°	1454.6	1373.7	1212.0	736.4	460.2	411.4	391.9	375.2	358.4	347.3	336.1
25°	1820.0	1705.7	1555.0	888.4	475.6	394.7	373.8	357.0	341.7	327.7	315.2
27.5°	2227.3	2103.1	1902.3	1104.6	509.1	378.0	354.2	338.9	325.0	311.0	294.3
30°	2602.4	2528.5	2323.5	1364.0	563.4	366.8	338.9	325.0	311.0	292.9	277.5
32.5°	3052.9	2921.8	2753.1	1659.6	636.0	355.6	326.4	306.8	295.7	278.9	262.2
35°	3506.2	3394.6	3172.8	2023.6	716.9	344.5	311.0	292.9	283.1	263.6	245.5
37.5°	3973.4	3948.3	3729.3	2426.7	796.3	331.9	292.9	281.7	272.0	249.6	228.7
40°	4433.6	4387.6	4185.4	2886.9	845.2	318.0	277.5	270.6	259.4	234.3	210.6
42.5°	4874.3	4839.5	4642.8	3327.7	838.2	305.4	262.2	253.8	245.5	220.4	191.1
45°	5415.5	5358.3	5110.0	3654.0	767.1	319.4	246.9	232.9	231.5	207.8	171.5
47.5°	6428.0	6239.7	5818.5	3905.0	695.9	355.6	230.1	213.4	223.1	195.3	152.0
50°	7846.3	7624.6	7015.1	4100.3	694.5	403.1	227.3	195.3	216.2	185.5	135.3
52.5°	9271.7	8881.2	8140.6	4204.9	746.1	437.9	252.4	177.1	207.8	175.7	122.7
55°	10637.1	9826.8	8612.0	3859.0	786.6	475.6	298.5	167.4	192.5	164.6	115.8
57.5°	11938.3	10586.9	8817.0	3052.9	921.9	490.9	326.4	171.5	170.1	150.6	110.2
60°	12116.8	10550.6	8402.8	1775.4	1016.7	464.4	315.2	191.1	149.2	133.9	100.4
62.5°	11441.8	9849.1	7458.6	1107.4	944.2	454.7	280.3	217.6	135.3	118.5	87.9
65°	10416.7	8748.7	6218.8	714.1	715.5	504.9	245.5	213.4	126.9	104.6	75.3
67.5°	8814.2	7322.0	4899.4	478.4	404.5	430.9	214.8	146.4	124.1	89.3	58.6
70°	6433.6	5211.8	3189.6	319.4	241.3	344.5	179.9	104.6	117.2	73.9	41.8
72.5°	4702.8	3502.0	1781.0	209.2	136.7	200.8	132.5	75.3	90.7	54.4	29.3
75°	3384.8	2410.0	1016.7	133.9	90.7	110.2	86.5	51.6	58.6	43.2	26.5
77.5°	1629.0	1174.3	461.6	73.9	61.4	55.8	46.0	32.1	36.3	39.1	23.7
80°	61.4	46.0	34.9	36.3	39.1	25.1	20.9	16.7	20.9	26.5	12.6
82.5°	0.0	0.0	0.0	4.2	5.6	7.0	8.4	7.0	8.4	9.8	1.4
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°	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9
2.5°	566.2	563.4	566.2	569.0	571.8	574.6	570.4	573.2	576.0	569.0	571.8
5°	521.6	520.2	528.6	532.8	538.3	541.1	538.3	538.3	536.9	528.6	528.6
7.5°	482.6	483.9	490.9	500.7	507.7	511.8	509.1	507.7	503.5	490.9	490.9
10°	453.3	453.3	464.4	472.8	482.6	486.7	483.9	479.8	475.6	463.0	461.6
12.5°	429.6	429.6	437.9	451.9	463.0	468.6	467.2	461.6	454.7	442.1	440.7
15°	407.2	405.8	418.4	430.9	446.3	453.3	450.5	446.3	433.7	422.6	419.8
17.5°	384.9	383.5	394.7	411.4	428.2	437.9	436.5	426.8	415.6	401.7	398.9
20°	362.6	359.8	373.8	390.5	407.2	417.0	414.2	405.8	391.9	378.0	375.2
22.5°	340.3	338.9	348.7	362.6	378.0	386.3	384.9	378.0	364.0	351.5	351.5
25°	315.2	315.2	322.2	331.9	343.1	347.3	348.7	345.9	337.5	330.5	330.5
27.5°	294.3	290.1	292.9	295.7	301.2	308.2	308.2	311.0	312.4	309.6	311.0
30°	277.5	270.6	266.4	260.8	258.0	260.8	263.6	273.4	283.1	288.7	291.5
32.5°	258.0	249.6	238.5	223.1	213.4	210.6	219.0	237.1	255.2	267.8	274.7
35°	238.5	227.3	206.4	184.1	171.5	167.4	177.1	198.0	224.5	246.9	256.6
37.5°	219.0	203.6	174.3	147.8	133.9	131.1	140.9	163.2	193.9	224.5	237.1
40°	196.6	178.5	143.6	115.8	104.6	101.8	110.2	132.5	164.6	199.4	219.0
42.5°	174.3	152.0	115.8	92.0	80.9	80.9	92.0	108.8	138.1	175.7	199.4
45°	152.0	128.3	94.8	73.9	66.9	68.3	75.3	92.0	115.8	154.8	177.1
47.5°	131.1	110.2	78.1	61.4	55.8	57.2	65.5	79.5	99.0	133.9	157.6
50°	113.0	93.4	68.3	51.6	47.4	50.2	58.6	71.1	87.9	118.5	138.1
52.5°	101.8	83.7	62.8	44.6	41.8	44.6	53.0	64.2	79.5	104.6	124.1
55°	96.2	82.3	62.8	40.4	36.3	39.1	47.4	58.6	71.1	94.8	111.6
57.5°	94.8	85.1	66.9	36.3	30.7	33.5	41.8	53.0	65.5	86.5	100.4
60°	89.3	80.9	65.5	29.3	23.7	27.9	34.9	46.0	60.0	80.9	93.4
62.5°	78.1	71.1	57.2	23.7	18.1	20.9	29.3	40.4	54.4	73.9	87.9
65°	64.2	57.2	44.6	15.3	11.2	13.9	22.3	34.9	47.4	66.9	79.5
67.5°	47.4	40.4	30.7	9.8	5.6	9.8	18.1	29.3	43.2	60.0	72.5
70°	29.3	23.7	16.7	5.6	4.2	8.4	16.7	27.9	39.1	55.8	68.3
72.5°	16.7	11.2	7.0	2.8	4.2	8.4	16.7	27.9	37.7	53.0	64.2
75°	12.6	7.0	2.8	1.4	2.8	7.0	15.3	25.1	36.3	50.2	61.4
77.5°	8.4	4.2	1.4	0.0	1.4	5.6	13.9	23.7	33.5	47.4	58.6
80°	1.4	0.0	0.0	0.0	0.0	4.2	12.6	20.9	30.7	41.8	51.6
82.5°	0.0	0.0	0.0	0.0	0.0	1.4	9.8	18.1	26.5	34.9	41.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	5.6	13.9	20.9	26.5	29.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	13.9	16.7	19.5
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9
2.5°	570.4	578.8	578.8	584.4	591.3	603.9	610.9	620.6	627.6	634.6	637.4
5°	527.2	528.6	530.0	532.8	541.1	555.1	567.6	583.0	601.1	615.0	623.4
7.5°	490.9	490.9	490.9	495.1	503.5	513.2	525.8	546.7	567.6	584.4	598.3
10°	460.2	464.4	465.8	472.8	482.6	495.1	509.1	527.2	550.9	573.2	598.3
12.5°	440.7	444.9	451.9	458.8	468.6	482.6	497.9	521.6	570.4	616.4	669.4
15°	422.6	428.2	436.5	446.3	457.4	472.8	489.5	538.3	652.7	739.2	822.8
17.5°	403.1	411.4	422.6	432.3	446.3	463.0	483.9	578.8	803.3	947.0	1089.2
20°	378.0	389.1	401.7	417.0	433.7	453.3	483.9	662.5	1020.9	1227.3	1415.6
22.5°	354.2	365.4	380.7	400.3	419.8	439.3	490.9	789.4	1301.2	1562.0	1800.5
25°	334.7	348.7	364.0	380.7	403.1	425.4	507.7	967.9	1638.7	1974.8	2143.6
27.5°	316.6	333.3	348.7	362.6	382.1	407.2	545.3	1206.4	2037.6	2379.3	2511.8
30°	298.5	318.0	333.3	347.3	366.8	393.3	602.5	1510.4	2481.1	2813.0	2827.0
32.5°	283.1	301.2	319.4	333.3	351.5	382.1	682.0	1866.1	2935.8	3256.5	3125.4
35°	266.4	287.3	304.0	319.4	338.9	372.4	774.0	2249.6	3394.6	3663.8	3422.5
37.5°	249.6	273.4	294.3	305.4	325.0	362.6	841.0	2649.9	3863.2	4061.2	3683.3
40°	234.3	260.8	284.5	295.7	305.4	350.1	850.7	3059.9	4338.8	4453.1	3928.8
42.5°	217.6	246.9	267.8	283.1	291.5	341.7	792.2	3405.8	4737.7	4843.6	4249.5
45°	199.4	234.3	251.0	262.2	278.9	347.3	716.9	3673.5	5193.7	5376.4	4778.1
47.5°	181.3	220.4	234.3	242.7	265.0	380.7	689.0	3852.0	5945.4	6324.8	5669.3
50°	164.6	207.8	223.1	221.8	262.2	424.0	719.6	3987.3	7075.1	7521.4	6891.0
52.5°	146.4	193.9	212.0	206.4	283.1	457.4	781.0	4094.7	7944.0	8924.4	8532.5
55°	131.1	178.5	195.3	193.9	322.2	482.6	828.4	3528.5	8303.8	10228.4	10381.8
57.5°	119.9	161.8	175.7	199.4	347.3	482.6	958.1	2504.8	8310.8	11187.9	12836.4
60°	110.2	146.4	156.2	219.0	337.5	457.4	948.4	1534.1	7659.5	11122.4	14141.8
62.5°	101.8	132.5	145.0	224.5	298.5	453.3	856.3	951.2	6532.6	10275.8	13194.9
65°	94.8	121.3	139.5	206.4	270.6	485.3	577.4	683.4	5298.3	9310.7	12108.4
67.5°	87.9	111.6	147.8	168.8	245.5	433.7	417.0	485.3	4158.9	8252.2	11111.2
70°	82.3	106.0	156.2	138.1	214.8	338.9	295.7	368.2	3184.0	6885.4	9706.8
72.5°	78.1	99.0	131.1	108.8	174.3	262.2	206.4	267.8	2080.8	5375.0	7913.3
75°	73.9	90.7	96.2	87.9	129.7	171.5	156.2	179.9	1239.9	3928.8	6004.0
77.5°	72.5	85.1	78.1	71.1	87.9	101.8	118.5	121.3	605.3	1965.1	3146.3
80°	64.2	76.7	66.9	58.6	60.0	66.9	87.9	80.9	138.1	499.3	839.6
82.5°	50.2	60.0	55.8	48.8	48.8	48.8	58.6	54.4	44.6	224.5	379.3
85°	34.9	41.8	41.8	39.1	37.7	37.7	36.3	34.9	12.6	13.9	20.9
87.5°	23.7	29.3	30.7	29.3	25.1	22.3	19.5	16.7	5.6	0.0	2.8
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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CATALOG NUMBER: GWS-SA4D-830-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9
2.5°	647.1	651.3	651.3	645.7	641.5	630.4	619.2	608.1	605.3	603.9
5°	647.1	663.9	672.2	670.8	661.1	642.9	619.2	594.1	587.2	584.4
7.5°	637.4	669.4	694.5	698.7	680.6	648.5	605.3	567.6	557.9	553.7
10°	659.7	722.4	772.6	779.6	758.7	695.9	626.2	562.0	546.7	536.9
12.5°	779.6	882.8	944.2	973.5	933.0	853.5	737.8	623.4	588.5	573.2
15°	1022.3	1168.7	1285.9	1285.9	1248.2	1107.4	960.9	775.4	728.0	686.2
17.5°	1333.3	1517.4	1620.6	1609.4	1552.3	1453.2	1277.5	1011.1	914.9	871.7
20°	1687.5	1797.7	1821.4	1814.5	1789.3	1732.2	1610.8	1324.9	1195.2	1128.3
22.5°	1994.4	1965.1	1930.2	1902.3	1895.3	1912.1	1895.3	1675.0	1573.2	1454.6
25°	2202.2	2036.2	1931.6	1881.4	1905.1	2001.3	2105.9	2023.6	1942.8	1820.0
27.5°	2315.1	2027.8	1877.2	1825.6	1866.1	2002.7	2230.1	2369.5	2285.8	2227.3
30°	2376.5	2020.9	1842.3	1792.1	1853.5	2025.0	2316.5	2693.1	2695.9	2602.4
32.5°	2464.4	2065.5	1849.3	1803.3	1885.6	2092.0	2425.3	3022.2	3103.1	3052.9
35°	2563.4	2133.8	1881.4	1839.6	1941.4	2181.2	2546.6	3354.2	3522.9	3506.2
37.5°	2656.8	2210.5	1956.7	1916.3	2026.4	2258.0	2663.8	3680.5	3914.8	3973.4
40°	2754.5	2317.9	2188.2	2227.3	2288.6	2379.3	2768.4	3963.6	4345.8	4433.6
42.5°	2984.6	2690.3	2888.3	2962.3	2970.6	2783.7	2997.1	4326.2	4769.7	4874.3
45°	3497.8	3352.8	3920.4	4025.0	3970.6	3404.4	3548.0	4849.2	5362.5	5415.5
47.5°	4146.3	4213.3	5333.2	5694.4	5368.0	4136.6	4216.1	5949.6	6447.5	6428.0
50°	4902.2	5218.8	6937.0	7789.2	7008.2	5087.7	4985.9	7302.4	7906.3	7846.3
52.5°	5796.2	6387.5	8864.4	10075.0	9335.8	6157.4	6115.6	9094.6	9462.8	9271.7
55°	6921.7	7515.8	11082.0	12773.7	11722.1	7462.8	7606.5	11172.6	11243.7	10637.1
57.5°	8600.9	8987.2	13695.5	15868.4	14213.0	9236.8	10278.6	13938.2	13087.5	11938.3
60°	11649.6	10879.7	16221.3	19034.3	16862.8	11731.9	13802.9	15576.9	13701.1	12116.8
62.5°	12710.9	12486.4	17802.8	20373.2	18645.2	13780.6	14719.2	14648.1	12906.2	11441.8
65°	11102.9	12086.1	17519.7	19666.1	18416.5	13443.1	13208.8	13623.0	12010.8	10416.7
67.5°	10256.3	11146.1	16447.2	17714.9	17148.7	12298.1	11773.7	11660.7	10083.4	8814.2
70°	9402.8	10284.2	14892.2	15049.8	14786.2	10432.0	9743.1	8985.8	7536.7	6433.6
72.5°	8376.3	8861.7	12734.6	11987.1	11688.6	8193.6	8048.6	6766.9	5649.8	4702.8
75°	7305.2	7164.4	9928.6	8227.1	8450.2	6375.0	6797.6	4969.2	4139.3	3384.8
77.5°	5313.6	5209.0	6649.7	4997.1	5534.0	4175.6	3751.6	1983.2	1888.4	1629.0
80°	2965.0	3574.5	3591.2	2800.5	3493.6	2722.4	938.6	65.5	41.8	61.4
82.5°	1377.9	1536.9	1946.9	1298.4	1993.0	1348.6	193.9	0.0	0.0	0.0
85°	446.3	652.7	546.7	191.1	482.6	456.1	32.1	0.0	0.0	0.0
87.5°	26.5	54.4	13.9	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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