

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: P633258

Luminaire Tested: GWS-SA2E-735-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-735-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7677.6 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

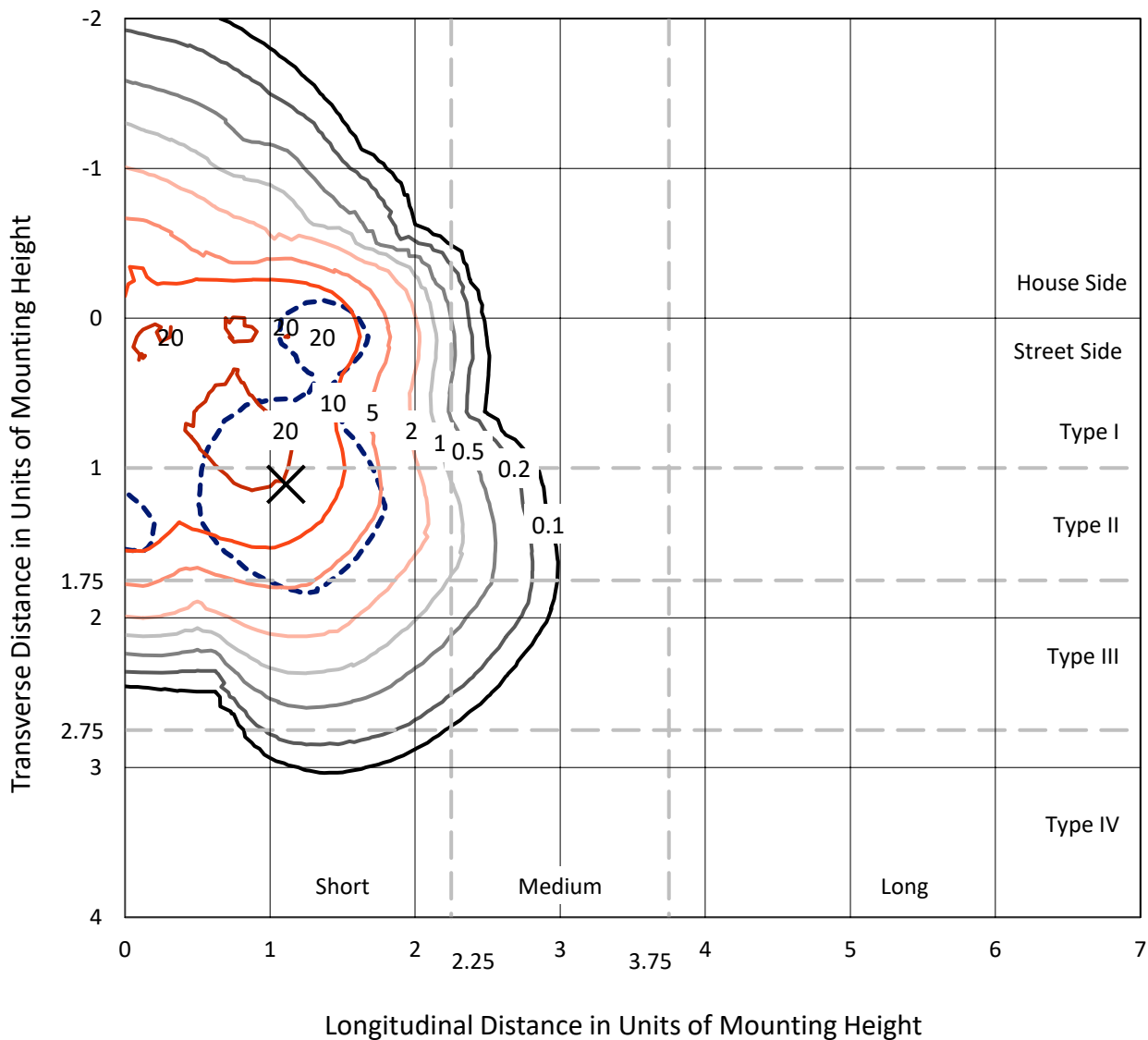
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

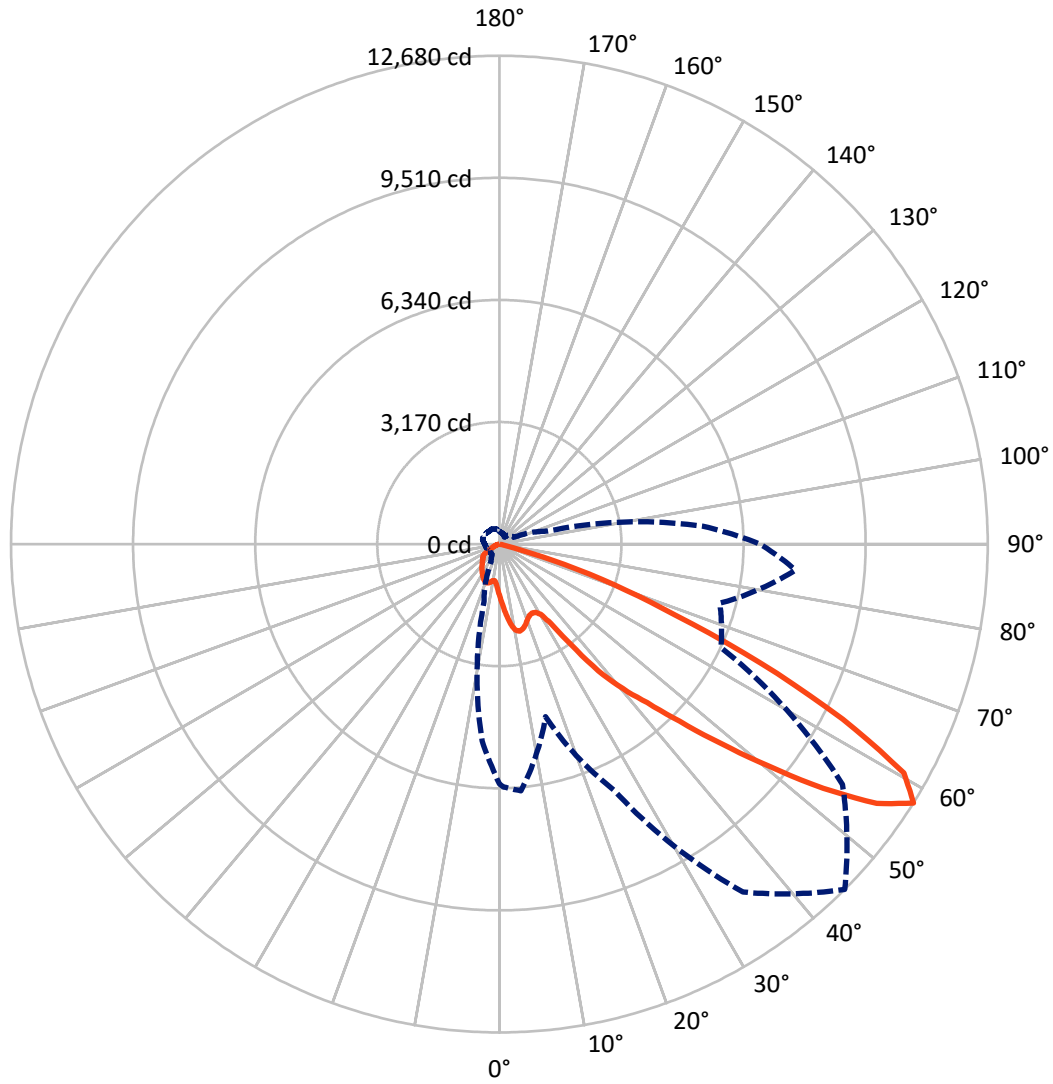
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1719.2	0.0	1719.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	5958.4	0.0	5958.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	7677.6	0.0	7677.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	1.7
10°-20°	429.4	5.6
20°-30°	697.6	9.1
30°-40°	1077.9	14.0
40°-50°	1728.4	22.5
50°-60°	2362.3	30.8
60°-70°	1144.1	14.9
70°-80°	104.8	1.4
80°-90°	0.3	0.0
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°	7677.6	100.0
0°-180°	7677.6	100.0

Coefficient of Utilization



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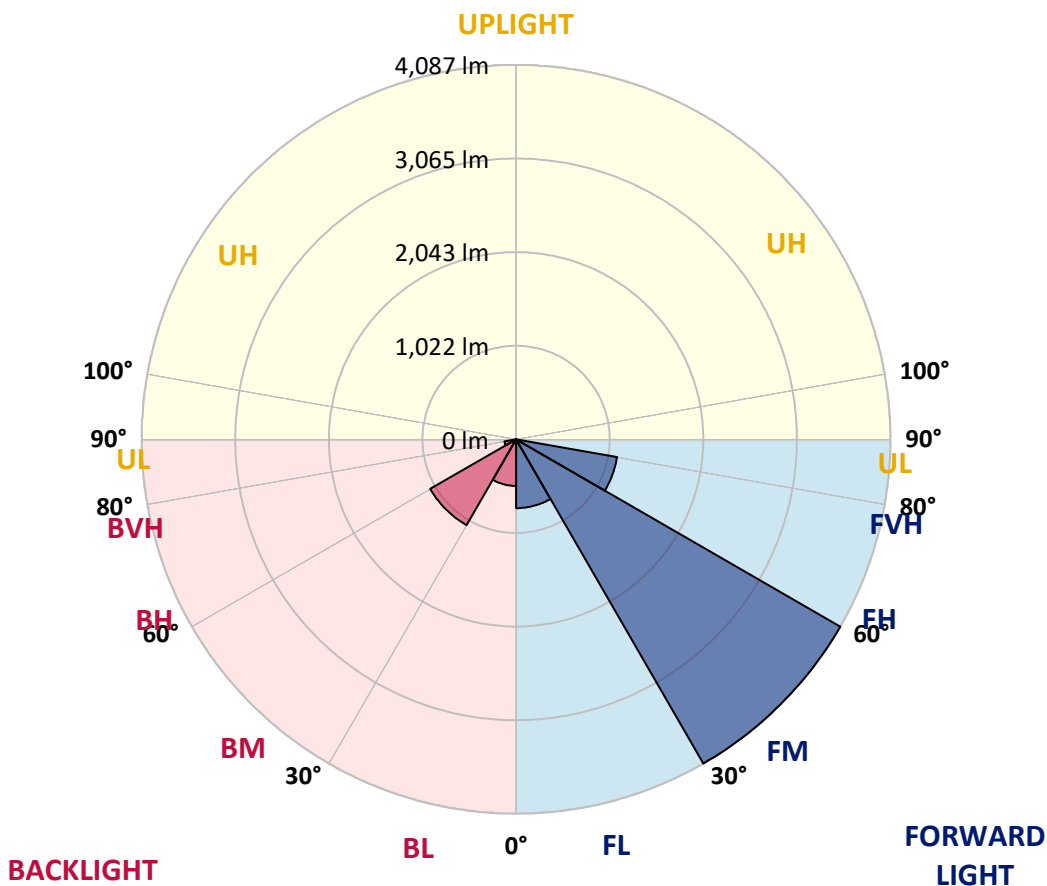
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	751.1	9.8			
FM (30°-60°)	4087.0	53.2			
FH (60°-80°)	1120.0	14.6			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	508.7	6.6	B2/1000		
BM (30°-60°)	1081.7	14.1	B2/2500		
BH (60°-80°)	128.9	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4
2.5°	1461.9	1471.2	1486.6	1519.6	1547.5	1566.1	1574.3	1572.3	1560.9	1552.7	1536.2
5°	1618.7	1618.7	1648.6	1723.9	1781.7	1817.8	1836.4	1825.0	1802.3	1766.2	1710.5
7.5°	1755.9	1761.1	1811.6	1918.9	2006.6	2058.2	2088.1	2081.9	2041.7	1972.5	1861.1
10°	1863.2	1869.4	1936.4	2067.5	2170.6	2223.2	2267.6	2271.7	2227.4	2135.6	2007.6
12.5°	1967.4	1973.6	2043.7	2169.6	2260.4	2282.0	2321.3	2336.7	2325.4	2260.4	2127.3
15°	2079.8	2094.3	2154.1	2248.0	2286.2	2260.4	2286.2	2314.0	2352.2	2346.0	2226.3
17.5°	2190.2	2200.5	2261.4	2294.4	2252.1	2185.1	2197.5	2230.5	2317.1	2401.7	2324.3
20°	2292.4	2306.8	2357.4	2314.0	2186.1	2081.9	2082.9	2126.3	2258.3	2435.8	2424.4
22.5°	2399.7	2421.3	2457.4	2335.7	2125.2	2000.4	2005.6	2044.8	2211.9	2467.7	2537.9
25°	2540.0	2560.6	2584.3	2389.3	2105.6	1960.2	1979.8	2015.9	2211.9	2522.4	2678.2
27.5°	2729.8	2744.2	2745.3	2489.4	2139.7	1966.4	2007.6	2048.9	2277.9	2631.8	2866.0
30°	2968.1	2990.8	2960.9	2645.2	2245.9	2048.9	2109.8	2161.3	2420.3	2816.5	3142.5
32.5°	3258.0	3290.0	3249.8	2876.3	2467.7	2333.6	2444.0	2473.9	2647.3	3083.7	3456.1
35°	3598.5	3625.3	3581.9	3196.1	2985.6	3010.4	3210.5	3172.4	3103.3	3412.8	3822.3
37.5°	3971.9	3996.7	3913.1	3681.0	3751.1	3858.4	4178.3	4047.2	3824.4	3836.8	4219.5
40°	4314.4	4341.3	4210.2	4208.2	4352.6	4548.6	4934.5	4753.9	4450.6	4391.8	4592.0
42.5°	4669.3	4687.9	4569.3	4488.8	4816.9	5220.2	5628.8	5385.3	4865.3	4801.4	5058.3
45°	5175.9	5215.1	5003.6	4627.0	5234.7	5993.0	6562.4	6086.8	5148.0	5096.4	5772.2
47.5°	5920.7	5949.6	5518.4	4713.7	5623.6	6955.5	7729.3	6996.8	5396.7	5279.0	6748.1
50°	6536.6	6556.2	5991.9	4808.6	6037.3	7993.4	9059.1	8075.9	5676.2	5581.3	7659.1
52.5°	6990.6	7064.9	6614.0	5003.6	6581.0	9213.8	10531.3	9354.1	6112.6	6165.2	8414.3
55°	7084.5	7185.6	7039.1	5123.3	7059.7	10457.0	11891.0	10498.2	6548.0	6607.8	8668.1
57.5°	6226.1	6306.6	6428.3	4640.4	7048.3	11026.5	12680.2	10877.9	6349.9	5925.9	7717.9
60°	4664.2	4719.9	4940.7	3546.9	6482.0	10523.0	12065.3	10232.1	5552.4	4521.8	5880.5
62.5°	2765.9	2790.7	3070.2	2297.5	5380.1	9062.2	10006.1	8829.0	4387.7	3041.4	3601.5
65°	1061.6	1051.3	1264.8	1133.8	3956.4	7218.6	7442.4	6730.6	3010.4	1393.8	1373.1
67.5°	164.0	156.8	211.5	335.3	2853.6	5002.6	4910.7	4850.9	1885.9	325.0	283.7
70°	37.1	37.1	45.4	99.0	1743.5	2939.2	3145.6	2999.1	1207.1	69.1	37.1
72.5°	17.5	17.5	21.7	42.3	631.4	1211.2	1411.3	1389.7	392.0	22.7	13.4
75°	6.2	7.2	7.2	9.3	38.2	62.9	144.4	103.2	24.8	0.0	0.0
77.5°	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4
2.5°	1500.0	1492.8	1466.0	1429.9	1394.8	1363.9	1331.9	1293.7	1265.9	1233.9	1223.6
5°	1667.2	1621.8	1548.5	1472.2	1402.0	1342.2	1284.4	1222.5	1177.1	1131.7	1116.3
7.5°	1808.5	1741.5	1622.8	1508.3	1412.4	1327.8	1244.2	1159.6	1093.6	1039.9	1023.4
10°	1935.4	1858.0	1699.2	1557.8	1437.1	1339.1	1238.0	1131.7	1046.1	982.1	966.7
12.5°	2044.8	1955.0	1764.2	1595.0	1447.4	1335.0	1237.0	1152.4	1075.0	1001.7	982.1
15°	2136.6	2037.5	1818.8	1619.7	1432.0	1283.4	1197.8	1184.4	1178.2	1097.7	1059.5
17.5°	2226.3	2114.9	1863.2	1631.1	1388.6	1192.6	1130.7	1191.6	1256.6	1204.0	1155.5
20°	2320.2	2193.3	1908.6	1633.1	1316.4	1090.5	1080.2	1176.1	1258.6	1242.1	1196.7
22.5°	2430.6	2291.3	1965.3	1632.1	1225.6	1003.8	1043.0	1146.2	1213.2	1212.2	1176.1
25°	2590.5	2415.1	2041.7	1638.3	1126.6	936.8	1001.7	1095.6	1150.3	1148.2	1118.3
27.5°	2761.8	2562.7	2140.7	1653.8	1042.0	897.6	953.3	1026.5	1074.0	1071.9	1046.1
30°	3002.2	2732.9	2235.6	1654.8	981.1	876.9	899.6	950.2	995.6	990.4	970.8
32.5°	3294.1	2924.8	2315.1	1596.0	942.9	857.3	843.9	869.7	904.8	897.6	892.4
35°	3646.9	3152.8	2383.2	1467.0	884.1	818.1	782.0	787.2	811.9	816.0	814.0
37.5°	4049.3	3424.1	2467.7	1296.8	804.7	761.4	712.9	708.8	723.2	736.6	746.9
40°	4446.5	3729.5	2582.3	1124.5	732.5	689.2	642.7	632.4	638.6	662.3	684.0
42.5°	4893.2	4083.3	2706.1	977.0	683.0	609.7	565.4	545.8	563.3	601.5	627.3
45°	5537.0	4579.6	2826.8	859.4	662.3	539.6	479.7	477.7	497.3	546.8	575.7
47.5°	6440.7	5221.3	2906.2	767.6	661.3	484.9	413.7	426.1	448.8	497.3	530.3
50°	7321.7	6024.9	2818.5	697.4	639.6	448.8	364.2	388.9	411.6	453.9	488.0
52.5°	7853.1	6457.2	2477.0	631.4	572.6	432.3	315.7	359.0	363.1	401.3	437.4
55°	7797.3	6177.6	1897.2	529.2	473.5	408.5	265.1	323.9	326.0	354.9	385.8
57.5°	6767.7	5303.8	1303.0	429.2	355.9	337.4	218.7	273.4	293.0	310.5	333.2
60°	5043.8	3869.8	580.8	348.7	225.9	228.0	186.7	206.3	236.3	256.9	276.5
62.5°	2972.2	2226.3	236.3	209.4	124.8	143.4	150.6	150.6	169.2	184.7	197.0
65°	1123.5	778.9	95.9	105.2	65.0	67.1	88.7	109.4	123.8	137.2	153.7
67.5°	197.0	136.2	49.5	39.2	38.2	34.0	45.4	71.2	79.4	89.8	97.0
70°	33.0	27.9	20.6	19.6	17.5	18.6	29.9	50.6	55.7	58.8	61.9
72.5°	9.3	8.3	6.2	5.2	4.1	5.2	18.6	39.2	41.3	43.3	46.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	27.9	29.9	31.0	34.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	8.3	10.3	8.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4
2.5°	1217.4	1196.7	1185.4	1179.2	1179.2	1170.9	1161.7	1158.6	1172.0	1172.0	1194.7
5°	1096.7	1080.2	1061.6	1050.2	1032.7	1035.8	1025.5	1024.4	1037.9	1044.0	1067.8
7.5°	1013.1	992.5	981.1	973.9	964.6	960.5	951.2	948.1	955.3	965.6	988.3
10°	957.4	954.3	953.3	958.4	958.4	953.3	945.0	939.8	941.9	961.5	987.3
12.5°	971.8	978.0	980.1	988.3	992.5	988.3	982.1	984.2	997.6	1033.7	1071.9
15°	1034.8	1029.6	1027.5	1031.7	1034.8	1030.6	1028.6	1044.0	1090.5	1142.1	1185.4
17.5°	1101.8	1068.8	1054.4	1054.4	1056.4	1054.4	1056.4	1086.3	1161.7	1213.2	1245.2
20°	1135.9	1075.0	1052.3	1047.1	1051.3	1052.3	1059.5	1093.6	1176.1	1212.2	1219.4
22.5°	1125.5	1049.2	1023.4	1019.3	1023.4	1027.5	1034.8	1063.6	1141.0	1159.6	1156.5
25°	1074.0	998.7	978.0	978.0	987.3	986.3	989.4	1010.0	1074.0	1085.3	1080.2
27.5°	1009.0	937.8	920.2	930.6	938.8	936.8	937.8	955.3	1002.8	1005.9	1000.7
30°	942.9	881.0	864.5	876.9	888.3	886.2	887.2	904.8	934.7	931.6	924.4
32.5°	875.9	830.5	818.1	825.3	842.9	840.8	844.9	863.5	874.9	861.4	853.2
35°	814.0	790.3	781.0	785.1	798.5	801.6	808.8	821.2	821.2	804.7	790.3
37.5°	756.2	753.1	746.9	741.8	754.1	763.4	773.8	788.2	767.6	743.8	730.4
40°	702.6	716.0	707.7	694.3	701.5	714.9	735.6	746.9	722.2	698.4	675.7
42.5°	653.0	675.7	672.6	656.1	662.3	674.7	698.4	707.7	678.8	652.0	630.3
45°	605.6	637.6	639.6	619.0	625.2	637.6	665.4	668.5	631.4	602.5	587.0
47.5°	564.3	599.4	600.4	585.0	587.0	604.6	630.3	631.4	589.1	562.3	542.7
50°	525.1	565.4	568.4	555.0	557.1	577.7	599.4	595.3	549.9	522.0	504.5
52.5°	477.7	532.3	539.6	533.4	541.6	558.1	571.5	557.1	504.5	476.6	461.2
55°	426.1	497.3	512.7	508.6	517.9	531.3	534.4	525.1	459.1	431.2	416.8
57.5°	366.2	409.6	436.4	428.1	435.4	448.8	458.1	450.8	401.3	379.7	367.3
60°	303.3	332.2	338.4	325.0	318.8	342.5	364.2	354.9	312.6	299.2	284.7
62.5°	221.8	254.8	258.9	241.4	234.2	260.0	278.6	269.3	222.8	208.4	197.0
65°	177.4	208.4	216.7	200.1	196.0	215.6	227.0	204.3	171.3	155.8	143.4
67.5°	116.6	141.3	163.0	162.0	153.7	159.9	151.7	133.1	109.4	101.1	92.9
70°	72.2	86.7	100.1	105.2	104.2	102.1	90.8	77.4	70.2	67.1	62.9
72.5°	55.7	70.2	80.5	83.6	84.6	81.5	72.2	59.8	52.6	48.5	45.4
75°	41.3	52.6	60.9	65.0	67.1	65.0	55.7	47.5	40.2	37.1	34.0
77.5°	14.4	17.5	21.7	23.7	22.7	21.7	19.6	19.6	15.5	14.4	12.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-SA2E-735-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4
2.5°	1220.5	1239.0	1273.1	1304.0	1337.0	1371.1	1408.2	1446.4	1463.9	1461.9
5°	1103.9	1144.1	1199.8	1260.7	1328.8	1402.0	1483.5	1567.1	1603.2	1618.7
7.5°	1030.6	1087.4	1160.6	1238.0	1327.8	1432.0	1554.7	1685.7	1738.4	1755.9
10°	1039.9	1105.9	1166.8	1242.1	1338.1	1473.2	1625.9	1781.7	1843.6	1863.2
12.5°	1115.2	1129.7	1146.2	1208.1	1328.8	1504.2	1690.9	1876.6	1947.8	1967.4
15°	1183.3	1116.3	1085.3	1142.1	1295.8	1525.8	1756.9	1978.7	2057.1	2079.8
17.5°	1186.4	1085.3	1016.2	1060.6	1242.1	1535.1	1821.9	2082.9	2168.6	2190.2
20°	1148.2	1051.3	962.5	963.6	1168.9	1533.1	1875.6	2176.8	2272.8	2292.4
22.5°	1092.5	1011.0	919.2	887.2	1090.5	1528.9	1934.4	2276.9	2381.1	2399.7
25°	1030.6	959.5	877.9	829.5	1012.1	1533.1	2016.9	2407.9	2522.4	2540.0
27.5°	963.6	902.7	846.0	806.8	946.0	1548.5	2115.9	2575.0	2711.2	2729.8
30°	893.4	848.0	825.3	801.6	904.8	1552.7	2223.2	2770.0	2942.3	2968.1
32.5°	824.3	799.5	800.6	804.7	865.6	1523.8	2321.3	2986.7	3216.7	3258.0
35°	760.3	753.1	773.8	794.4	808.8	1449.5	2406.9	3242.5	3556.2	3598.5
37.5°	705.7	711.9	737.6	758.3	746.9	1344.3	2520.4	3562.3	3935.8	3971.9
40°	653.0	668.5	698.4	707.7	699.5	1221.5	2656.5	3870.8	4264.9	4314.4
42.5°	604.6	615.9	658.2	660.3	686.1	1096.7	2787.6	4203.0	4643.5	4669.3
45°	565.4	563.3	606.6	620.0	703.6	958.4	2915.5	4645.6	5138.7	5175.9
47.5°	527.2	525.1	535.4	596.3	710.8	830.5	3042.4	5293.5	5856.8	5920.7
50°	491.1	494.2	462.2	585.0	671.6	732.5	3100.2	5892.9	6509.8	6536.6
52.5°	459.1	447.7	392.0	547.8	588.1	639.6	2936.1	6165.2	6914.2	6990.6
55°	413.7	350.8	322.9	444.6	464.3	558.1	2404.8	6007.4	6949.3	7084.5
57.5°	353.9	275.5	274.4	328.1	328.1	517.9	1540.3	5132.5	5988.8	6226.1
60°	272.4	213.6	227.0	228.0	210.5	377.6	864.5	3718.1	4427.9	4664.2
62.5°	194.0	163.0	171.3	136.2	120.7	188.8	414.7	2140.7	2732.9	2765.9
65°	130.0	110.4	89.8	75.3	74.3	80.5	171.3	773.8	940.9	1061.6
67.5°	85.6	67.1	47.5	47.5	53.6	53.6	65.0	127.9	179.5	164.0
70°	55.7	46.4	29.9	28.9	35.1	35.1	33.0	35.1	37.1	37.1
72.5°	41.3	35.1	17.5	15.5	19.6	20.6	18.6	17.5	17.5	17.5
75°	31.0	24.8	10.3	7.2	9.3	12.4	10.3	7.2	7.2	6.2
77.5°	12.4	9.3	4.1	3.1	5.2	7.2	6.2	3.1	2.1	2.1
80°	1.0	2.1	2.1	2.1	3.1	4.1	5.2	2.1	1.0	1.0
82.5°	0.0	1.0	1.0	1.0	2.1	3.1	4.1	2.1	1.0	1.0
85°	0.0	0.0	0.0	0.0	2.1	3.1	2.1	1.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.0	3.1	2.1	1.0	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

(END OF REPORT)