

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: P638369

Luminaire Tested: GWS-SA4E-760-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-760-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16555.7 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

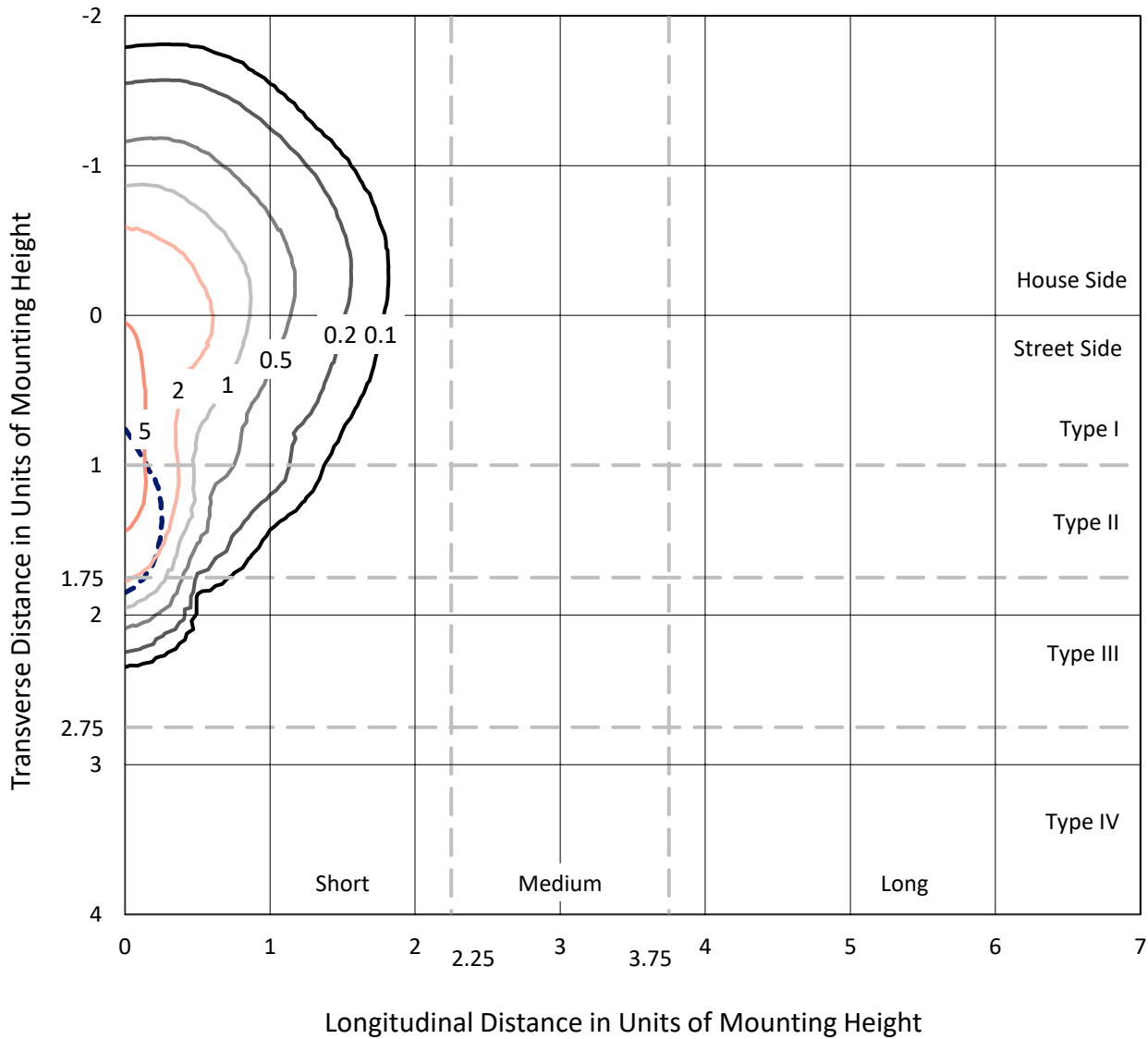
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

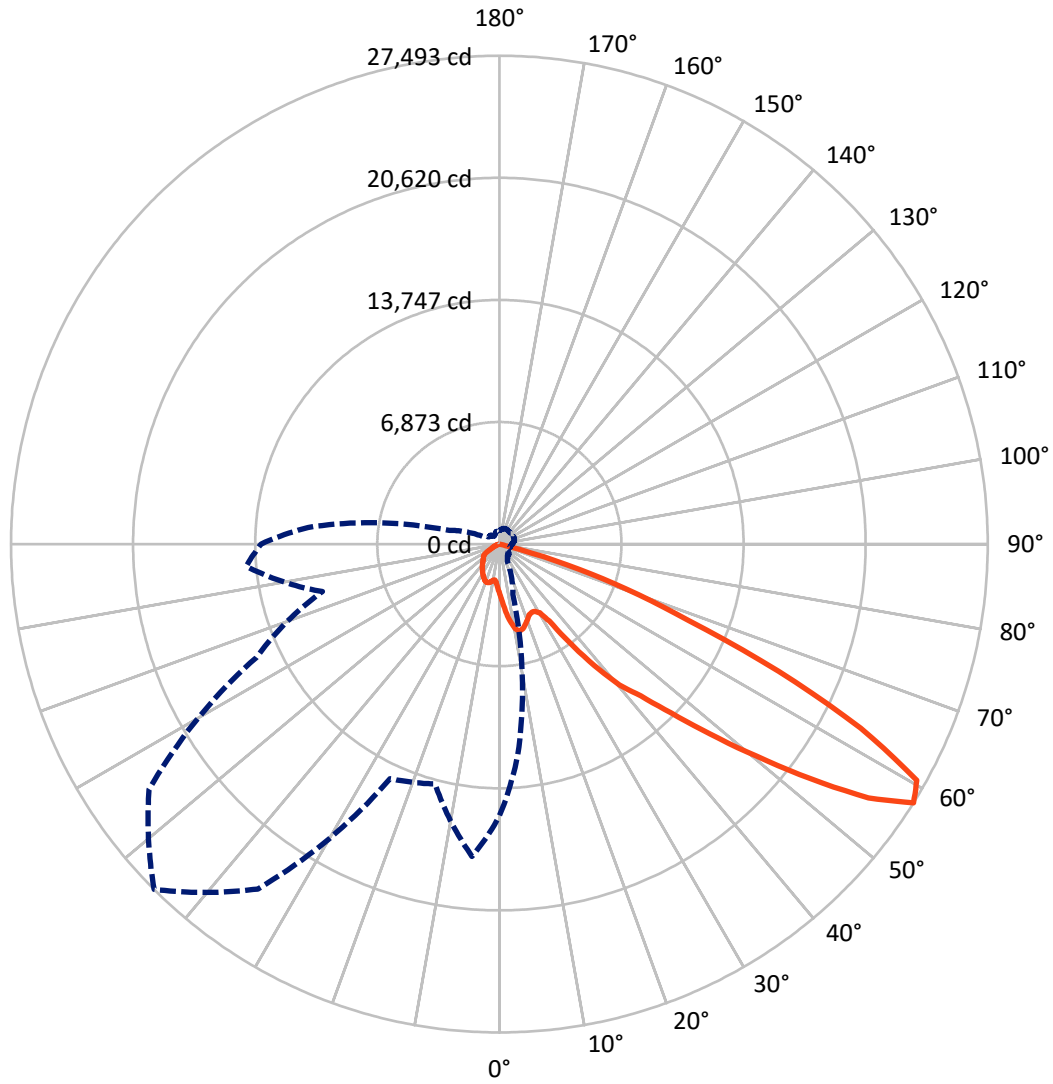
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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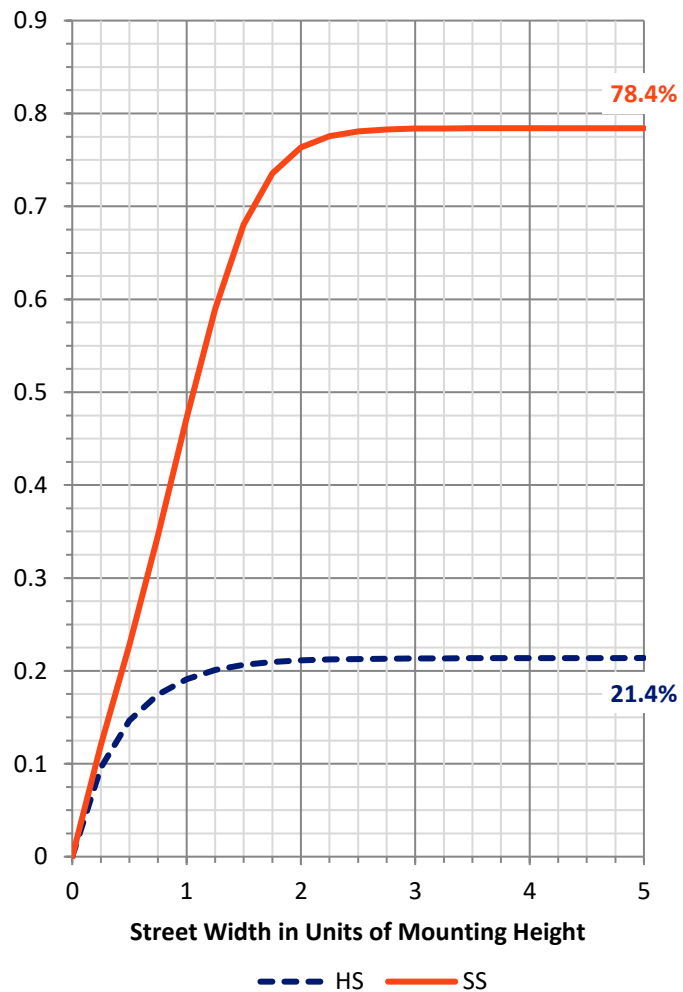
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3566.7	0.0	3566.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	12989.0	0.0	12989.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	16555.7	0.0	16555.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.0	1.7
10°-20°	914.9	5.5
20°-30°	1484.7	9.0
30°-40°	2278.7	13.8
40°-50°	3639.3	22.0
50°-60°	5095.7	30.8
60°-70°	2612.7	15.8
70°-80°	251.5	1.5
80°-90°	0.0	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°	16555.7	100.0
0°-180°	16555.7	100.0

Coefficient of Utilization



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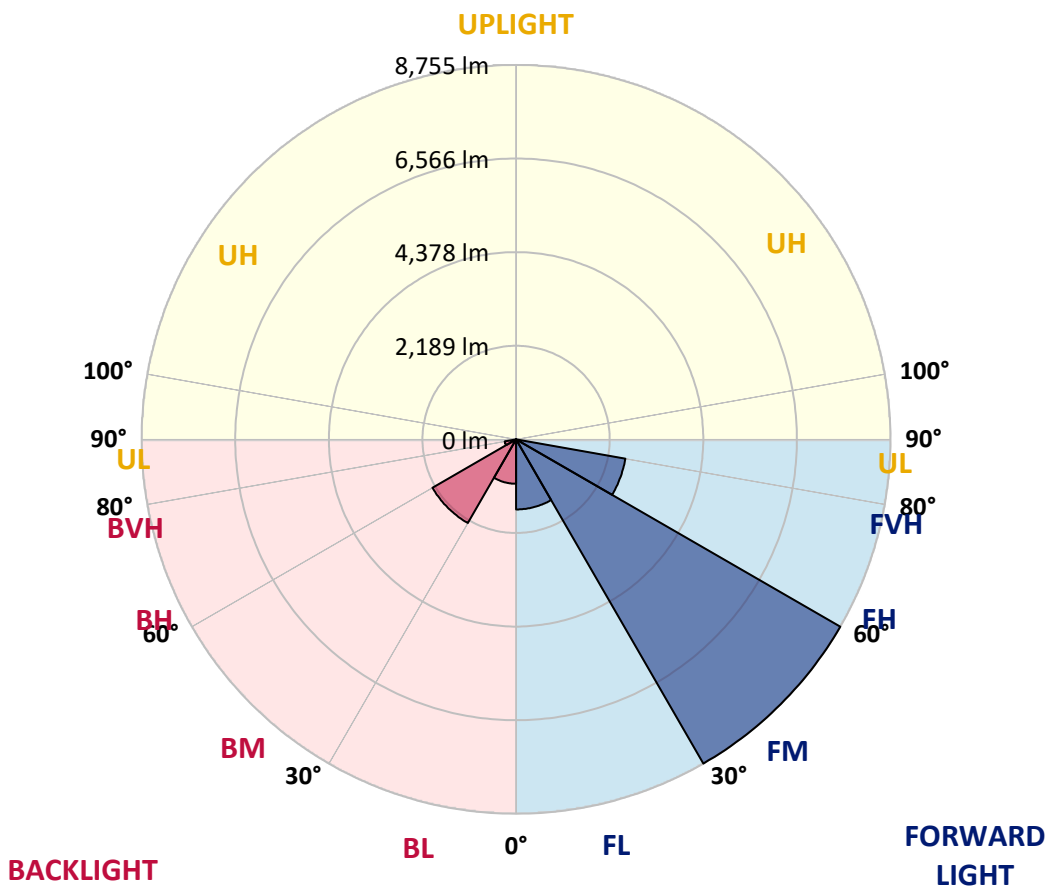
CATALOG NUMBER: GWS-SA4E-760-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1639.1	9.9			
FM (30°-60°)	8755.0	52.9			
FH (60°-80°)	2594.9	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1038.5	6.3	B3/2500		
BM (30°-60°)	2258.7	13.6	B2/2500		
BH (60°-80°)	269.4	1.6	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: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1
2.5°	3125.1	3118.5	3096.4	3021.1	2974.6	2901.6	2848.5	2779.9	2704.6	2658.1	2611.7
5°	3457.1	3439.4	3379.7	3207.0	3074.2	2930.4	2815.3	2689.1	2554.1	2465.6	2383.7
7.5°	3775.8	3749.3	3669.6	3377.4	3176.0	2970.2	2806.4	2622.7	2432.4	2299.6	2197.8
10°	4087.9	4028.1	3902.0	3543.4	3271.2	3023.3	2830.8	2620.5	2397.0	2228.8	2115.9
12.5°	4344.6	4300.4	4127.7	3700.6	3350.9	3034.4	2797.6	2602.8	2452.3	2339.4	2235.4
15°	4566.0	4517.3	4353.5	3842.2	3419.5	2990.1	2658.1	2487.7	2512.1	2556.3	2467.8
17.5°	4769.6	4718.7	4541.6	3959.5	3446.1	2881.7	2463.4	2381.5	2516.5	2682.5	2649.3
20°	4979.8	4922.3	4705.4	4054.7	3437.2	2711.2	2266.4	2290.7	2481.1	2671.4	2689.1
22.5°	5225.5	5165.8	4913.4	4176.4	3430.6	2507.6	2096.0	2211.1	2414.7	2576.2	2607.2
25°	5550.9	5480.0	5203.4	4355.7	3448.3	2321.7	1974.2	2133.6	2301.8	2447.9	2465.6
27.5°	5980.2	5889.5	5537.6	4577.0	3485.9	2175.6	1921.1	2027.3	2157.9	2288.5	2304.0
30°	6540.2	6425.1	5920.5	4769.6	3468.2	2073.8	1885.7	1921.1	1998.6	2104.8	2107.0
32.5°	7195.3	7038.2	6349.9	4935.6	3315.5	1998.6	1837.0	1812.7	1830.4	1912.3	1927.8
35°	7965.5	7761.9	6823.5	5092.7	3036.6	1852.5	1748.5	1666.6	1659.9	1699.8	1737.4
37.5°	8848.6	8605.2	7421.1	5294.1	2706.8	1699.8	1617.9	1536.0	1500.6	1520.5	1578.1
40°	9663.1	9393.1	8045.2	5537.6	2370.4	1562.6	1465.2	1381.1	1339.0	1345.7	1416.5
42.5°	10619.2	10340.4	8808.8	5856.3	2091.5	1469.6	1305.8	1219.5	1164.2	1195.2	1277.1
45°	12071.1	11754.6	9922.1	6133.0	1870.2	1447.5	1166.4	1044.7	1018.1	1071.2	1168.6
47.5°	14054.2	13666.9	11451.4	6301.2	1682.1	1467.4	1069.0	903.0	909.7	969.4	1066.8
50°	16021.8	15603.5	13219.8	6079.8	1527.2	1427.6	1020.3	792.3	834.4	887.5	976.0
52.5°	17374.1	16829.7	14080.8	5440.2	1385.5	1277.1	1015.9	688.3	768.0	785.7	861.0
55°	17427.2	16756.6	13640.3	4289.3	1192.9	1077.9	969.4	602.0	695.0	701.6	765.8
57.5°	15275.9	14669.5	11920.6	2945.9	1060.2	790.1	772.4	526.8	571.0	626.4	666.2
60°	11621.9	11106.2	8915.0	1350.1	805.6	502.4	529.0	453.7	427.2	509.1	548.9
62.5°	7117.9	6788.1	5347.2	597.6	513.5	267.8	320.9	360.8	320.9	351.9	385.1
65°	2826.3	2680.3	2029.6	254.5	210.3	135.0	146.1	210.3	225.8	247.9	278.9
67.5°	491.3	464.8	340.8	112.9	86.3	81.9	70.8	97.4	137.2	152.7	177.1
70°	64.2	62.0	55.3	46.5	44.3	39.8	31.0	62.0	93.0	97.4	112.9
72.5°	15.5	13.3	13.3	11.1	13.3	4.4	4.4	33.2	66.4	68.6	79.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	42.1	46.5	55.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1
2.5°	2574.0	2529.8	2514.3	2492.1	2463.4	2472.2	2432.4	2419.1	2439.0	2465.6	2458.9
5°	2339.4	2290.7	2257.5	2206.6	2197.8	2177.9	2164.6	2146.9	2169.0	2200.0	2206.6
7.5°	2153.5	2111.5	2078.3	2062.8	2051.7	2042.8	2016.3	2003.0	2003.0	2016.3	2027.3
10°	2073.8	2042.8	2036.2	2040.6	2058.3	2056.1	2031.8	2014.1	1991.9	1980.9	1994.2
12.5°	2184.5	2133.6	2124.7	2126.9	2149.1	2146.9	2120.3	2098.2	2093.7	2098.2	2140.2
15°	2372.6	2295.2	2237.6	2226.5	2237.6	2233.2	2213.3	2200.0	2206.6	2270.8	2341.6
17.5°	2540.8	2421.3	2317.3	2277.4	2275.2	2268.6	2248.7	2244.2	2277.4	2397.0	2501.0
20°	2589.5	2472.2	2323.9	2273.0	2262.0	2255.3	2233.2	2239.8	2281.9	2425.7	2514.3
22.5°	2525.3	2412.5	2257.5	2206.6	2197.8	2195.6	2173.4	2182.3	2217.7	2343.8	2416.9
25°	2403.6	2308.4	2146.9	2102.6	2102.6	2098.2	2078.3	2082.7	2104.8	2215.5	2286.3
27.5°	2255.3	2164.6	2029.6	1985.3	1991.9	1998.6	1974.2	1967.6	1985.3	2089.3	2131.4
30°	2084.9	2020.7	1914.5	1874.6	1872.4	1899.0	1865.8	1856.9	1881.3	1963.2	1972.0
32.5°	1918.9	1887.9	1812.7	1781.7	1783.9	1788.3	1770.6	1770.6	1792.7	1837.0	1834.8
35°	1757.3	1737.4	1724.1	1702.0	1699.8	1690.9	1690.9	1695.4	1719.7	1735.2	1706.4
37.5°	1602.4	1622.3	1637.8	1615.7	1598.0	1598.0	1598.0	1617.9	1640.0	1633.4	1584.7
40°	1465.2	1507.2	1555.9	1531.6	1489.5	1487.3	1496.2	1529.4	1562.6	1522.7	1478.5
42.5°	1347.9	1401.0	1469.6	1456.3	1409.8	1403.2	1409.8	1451.9	1478.5	1427.6	1378.9
45°	1232.8	1299.2	1381.1	1381.1	1330.2	1323.5	1325.7	1381.1	1396.6	1336.8	1274.8
47.5°	1135.4	1208.4	1294.8	1294.8	1252.7	1239.4	1250.5	1308.0	1319.1	1235.0	1177.5
50°	1042.4	1122.1	1217.3	1210.7	1181.9	1170.8	1190.7	1252.7	1239.4	1146.5	1086.7
52.5°	925.1	1009.2	1139.8	1146.5	1131.0	1133.2	1157.5	1197.4	1159.8	1046.9	996.0
55°	818.9	905.2	1035.8	1071.2	1071.2	1069.0	1080.1	1111.1	1080.1	945.1	883.1
57.5°	703.8	776.9	885.3	894.2	900.8	876.5	891.9	934.0	918.5	803.4	768.0
60°	577.7	639.6	701.6	708.2	679.5	628.6	657.3	706.0	717.1	630.8	590.9
62.5°	409.5	469.2	542.2	542.2	513.5	462.6	500.2	542.2	526.8	438.2	413.9
65°	305.4	360.8	416.1	440.4	416.1	380.7	409.5	440.4	416.1	343.1	307.6
67.5°	197.0	234.6	267.8	287.7	292.2	287.7	301.0	292.2	263.4	214.7	194.8
70°	119.5	139.4	157.1	174.8	188.1	194.8	201.4	181.5	152.7	126.2	119.5
72.5°	86.3	104.0	119.5	132.8	148.3	152.7	152.7	139.4	112.9	88.5	81.9
75°	59.8	75.3	88.5	97.4	110.7	115.1	115.1	104.0	84.1	64.2	57.5
77.5°	2.2	15.5	15.5	13.3	17.7	22.1	22.1	26.6	24.3	17.7	15.5
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°	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1
2.5°	2472.2	2551.9	2574.0	2655.9	2729.0	2802.0	2890.5	2943.6	3023.3	3078.7	3109.6
5°	2228.8	2295.2	2374.8	2496.6	2622.7	2762.2	2930.4	3076.4	3260.1	3395.1	3439.4
7.5°	2051.7	2138.0	2231.0	2383.7	2556.3	2742.2	2979.1	3218.1	3499.2	3682.9	3800.2
10°	2018.5	2107.0	2231.0	2381.5	2563.0	2775.4	3065.4	3375.2	3727.1	3950.7	4083.5
12.5°	2177.9	2273.0	2326.1	2394.8	2532.0	2768.8	3140.6	3534.6	3948.5	4191.9	4333.6
15°	2412.5	2496.6	2410.2	2323.9	2412.5	2698.0	3182.7	3667.4	4143.2	4424.3	4570.4
17.5°	2574.0	2580.7	2392.5	2208.8	2233.2	2569.6	3198.2	3800.2	4351.3	4645.6	4798.4
20°	2558.5	2505.4	2315.1	2111.5	2036.2	2403.6	3180.5	3917.5	4561.5	4869.2	5019.7
22.5°	2439.0	2377.0	2215.5	2016.3	1870.2	2206.6	3149.5	4023.7	4754.1	5103.8	5245.4
25°	2295.2	2228.8	2096.0	1921.1	1764.0	2016.3	3125.1	4169.8	4997.6	5409.2	5519.9
27.5°	2126.9	2069.4	1956.5	1830.4	1719.7	1872.4	3118.5	4362.3	5291.9	5781.0	5858.5
30°	1963.2	1910.0	1821.5	1748.5	1702.0	1788.3	3096.4	4568.2	5643.8	6208.2	6292.3
32.5°	1806.0	1752.9	1697.6	1686.5	1688.7	1757.3	3021.1	4771.8	6062.1	6827.9	6889.9
35°	1671.0	1609.0	1586.9	1613.5	1662.2	1704.2	2808.6	4940.0	6511.4	7503.0	7553.9
37.5°	1542.6	1480.7	1478.5	1542.6	1595.8	1622.3	2558.5	5106.0	7117.9	8189.1	8253.3
40°	1425.3	1363.4	1385.5	1463.0	1505.0	1518.3	2255.3	5358.3	7759.7	8912.8	8877.4
42.5°	1325.7	1261.6	1274.8	1374.4	1412.1	1447.5	1976.4	5568.6	8377.2	9598.9	9587.9
45°	1228.4	1179.7	1170.8	1279.3	1312.5	1454.1	1772.8	5730.1	9171.8	10473.2	10490.9
47.5°	1133.2	1095.6	1097.8	1144.3	1226.1	1487.3	1600.2	5836.4	10324.9	11858.7	11551.0
50°	1046.9	1018.1	1042.4	989.3	1170.8	1445.3	1451.9	5814.2	11613.0	13186.6	12569.1
52.5°	951.7	945.1	956.1	827.8	1082.3	1274.8	1312.5	5519.9	12217.2	14094.1	13742.2
55°	854.3	852.1	763.6	661.8	905.2	1018.1	1124.3	4605.8	12197.3	14576.6	15003.7
57.5°	739.2	721.5	579.9	540.0	703.8	708.2	1024.7	3016.7	10809.6	13421.2	14306.5
60°	560.0	546.7	424.9	438.2	491.3	453.7	816.7	1502.8	8078.4	10455.5	11453.6
62.5°	387.3	369.6	316.5	338.6	316.5	259.0	500.2	743.7	4893.5	6602.2	7507.4
65°	283.3	263.4	216.9	185.9	148.3	148.3	190.3	285.5	1894.6	2806.4	3384.1
67.5°	174.8	166.0	128.4	93.0	90.7	97.4	99.6	141.6	305.4	486.9	595.4
70°	112.9	104.0	86.3	59.8	55.3	57.5	59.8	66.4	77.5	84.1	101.8
72.5°	77.5	73.0	62.0	33.2	26.6	28.8	31.0	31.0	37.6	35.4	42.1
75°	55.3	50.9	44.3	15.5	8.9	11.1	13.3	11.1	13.3	8.9	11.1
77.5°	15.5	15.5	11.1	2.2	0.0	2.2	4.4	4.4	2.2	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	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



REPORT NUMBER: P638369

CATALOG NUMBER: GWS-SA4E-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1
2.5°	3189.3	3240.2	3260.1	3231.4	3255.7	3215.9	3200.4	3140.6	3136.2	3125.1
5°	3618.7	3733.8	3802.4	3844.4	3795.7	3742.6	3663.0	3525.7	3483.7	3457.1
7.5°	4041.4	4220.7	4338.0	4393.3	4380.0	4271.6	4127.7	3897.6	3815.7	3775.8
10°	4408.8	4627.9	4769.6	4838.2	4809.4	4714.3	4508.4	4220.7	4112.2	4087.9
12.5°	4665.6	4867.0	4964.4	5024.1	5026.3	4988.7	4793.9	4504.0	4375.6	4344.6
15°	4827.1	4913.4	4915.7	4951.1	5013.0	5097.1	5006.4	4749.7	4612.4	4566.0
17.5°	4928.9	4833.8	4736.4	4745.2	4847.0	5070.6	5163.5	4966.6	4820.5	4769.6
20°	5002.0	4701.0	4519.5	4521.7	4625.7	4964.4	5272.0	5176.8	5026.3	4979.8
22.5°	5048.5	4583.7	4324.7	4318.1	4428.7	4838.2	5371.6	5426.9	5278.6	5225.5
25°	5143.6	4528.3	4207.4	4245.0	4342.4	4798.4	5506.6	5758.9	5621.7	5550.9
27.5°	5314.0	4583.7	4196.3	4282.7	4393.3	4915.7	5741.2	6201.6	6059.9	5980.2
30°	5608.4	4791.7	4366.8	4486.3	4619.1	5223.3	6135.2	6819.1	6615.4	6540.2
32.5°	6082.0	5223.3	4893.5	5150.3	5278.6	5727.9	6726.1	7511.8	7345.8	7195.3
35°	6735.0	6208.2	6170.6	6768.2	6737.2	6684.1	7452.1	8361.7	8111.6	7965.5
37.5°	7633.5	7792.9	8071.8	8664.9	8645.0	8240.0	8406.0	9165.1	9036.8	8848.6
40°	8755.7	9094.3	9567.9	10417.8	10152.2	9643.2	9576.8	9988.5	9884.4	9663.1
42.5°	9417.4	10001.7	10904.8	11668.3	11455.9	10566.1	10490.9	11088.5	10860.5	10619.2
45°	9725.1	10741.0	12511.6	13545.2	12901.1	11179.2	11150.4	12522.6	12394.3	12071.1
47.5°	9866.7	11486.8	14392.9	15957.6	14753.6	11717.0	11613.0	14603.1	14434.9	14054.2
50°	10023.9	12516.0	16659.2	18753.0	16991.2	12325.7	12400.9	16541.9	16471.1	16021.8
52.5°	10369.1	13604.9	19450.2	21948.9	19704.7	13279.6	13753.2	18370.1	17892.0	17374.1
55°	10887.0	14791.2	22354.0	25213.5	22473.5	14561.1	15216.2	19341.7	18000.5	17427.2
57.5°	10313.8	15087.8	24073.7	27493.2	23701.8	14565.5	13979.0	17657.4	15831.5	15275.9
60°	8184.7	14036.5	23411.9	26999.6	22655.0	12934.3	10703.3	13786.4	11993.7	11621.9
62.5°	5533.2	11772.4	20609.9	22834.2	19390.4	10174.4	6956.3	8965.9	7425.5	7117.9
65°	3032.2	8782.2	16652.6	17274.5	15176.4	7106.8	3578.8	3890.9	2963.6	2826.3
67.5°	836.6	6113.0	12252.6	11460.3	10648.0	4627.9	925.1	695.0	495.8	491.3
70°	210.3	4043.6	7341.4	7567.2	6529.1	2963.6	177.1	84.1	66.4	64.2
72.5°	88.5	1739.6	3483.7	4003.8	3342.0	1372.2	64.2	24.3	19.9	15.5
75°	11.1	139.4	296.6	449.3	307.6	148.3	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)