

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P386112

Luminaire Tested: **GWC-SA1D-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA1D-727-U-SLR-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5138 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

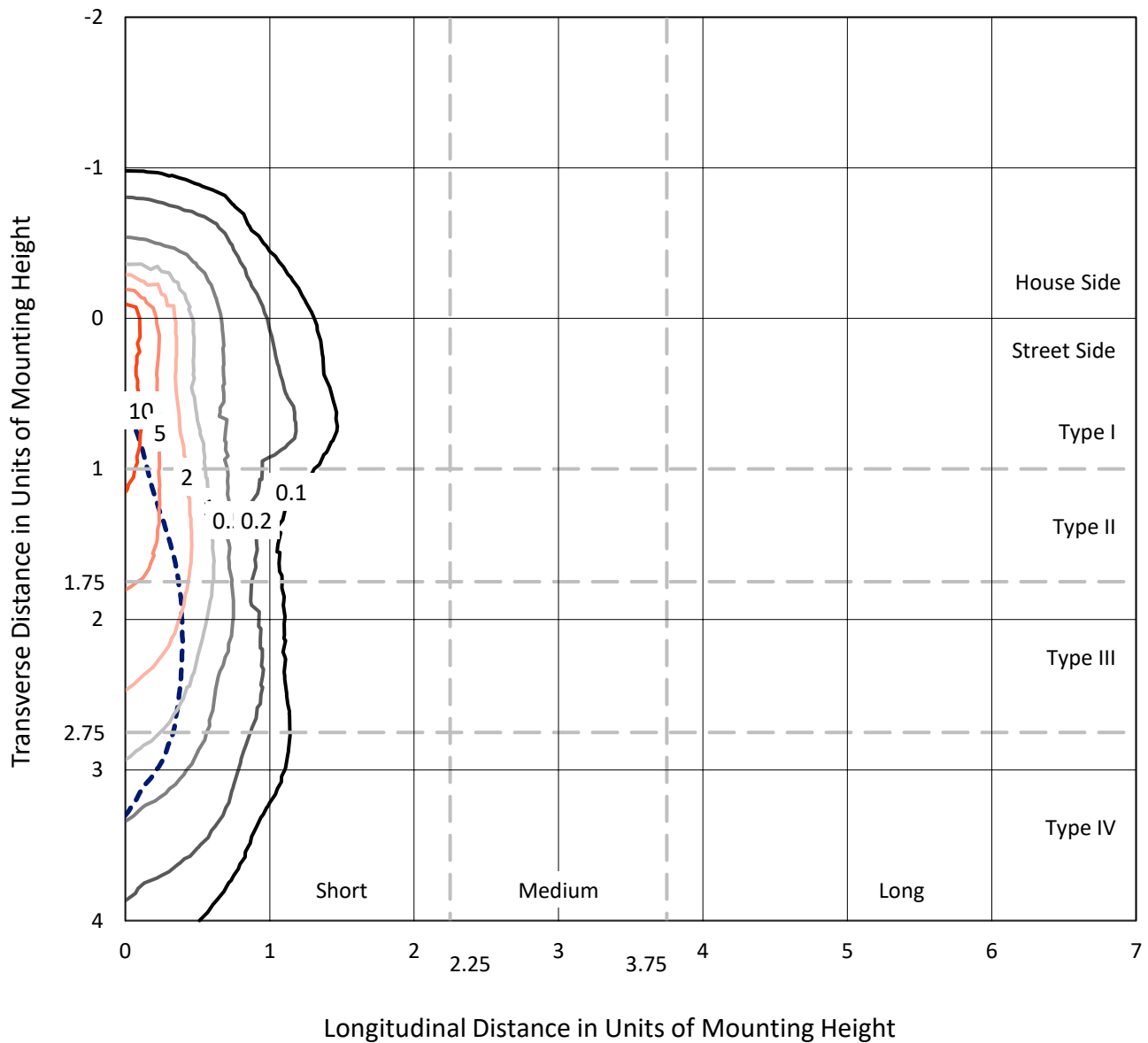


REPORT NUMBER: P386112

CATALOG NUMBER: GWC-SA1D-727-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

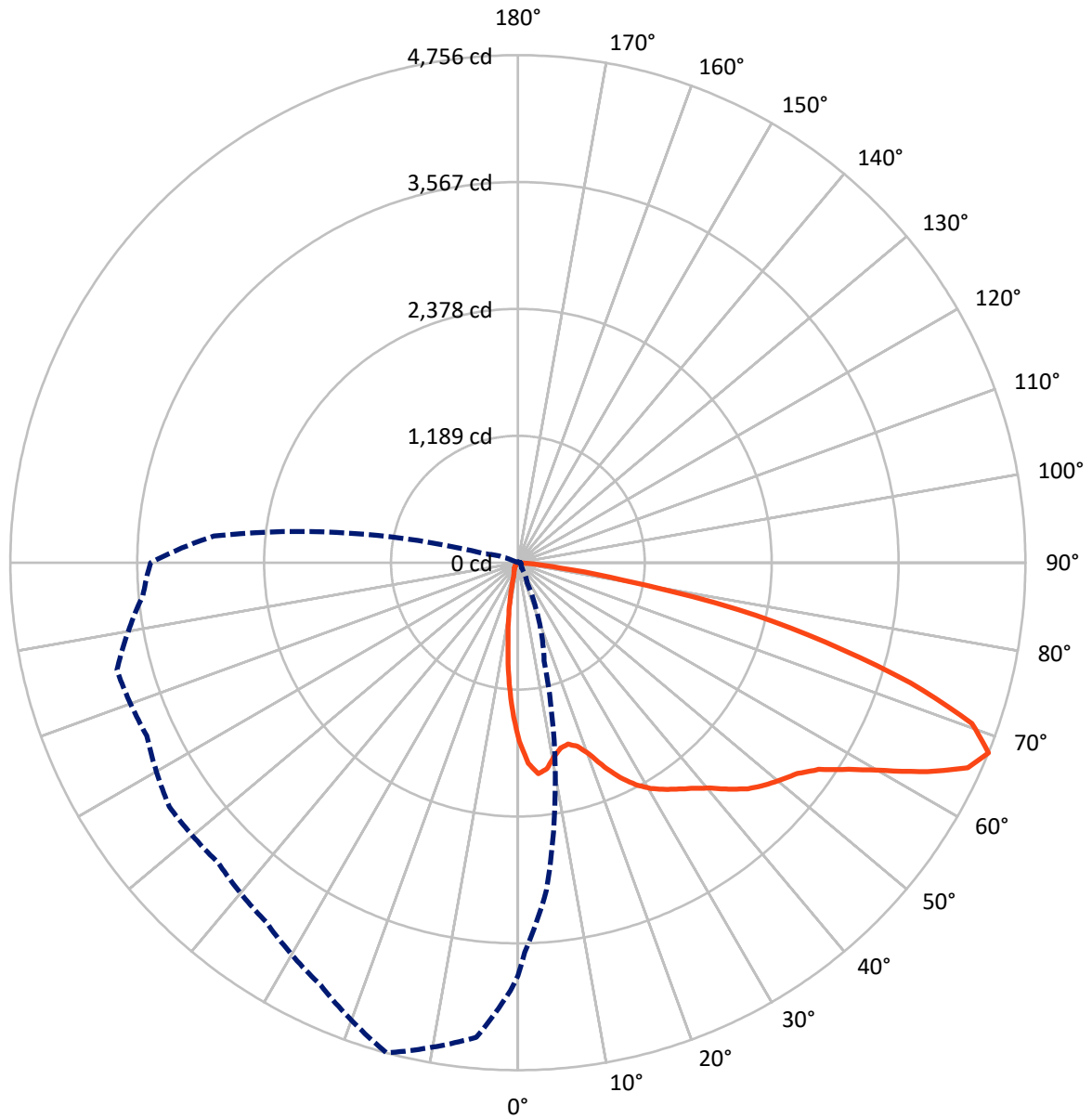


Based on 10 foot mounting height. Maximum calculated value = 16.7 fc
Type IV - Medium - N/A

REPORT NUMBER: P386112

CATALOG NUMBER: GWC-SA1D-727-U-SLR-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P386112

CATALOG NUMBER: GWC-SA1D-727-U-SLR-HSS

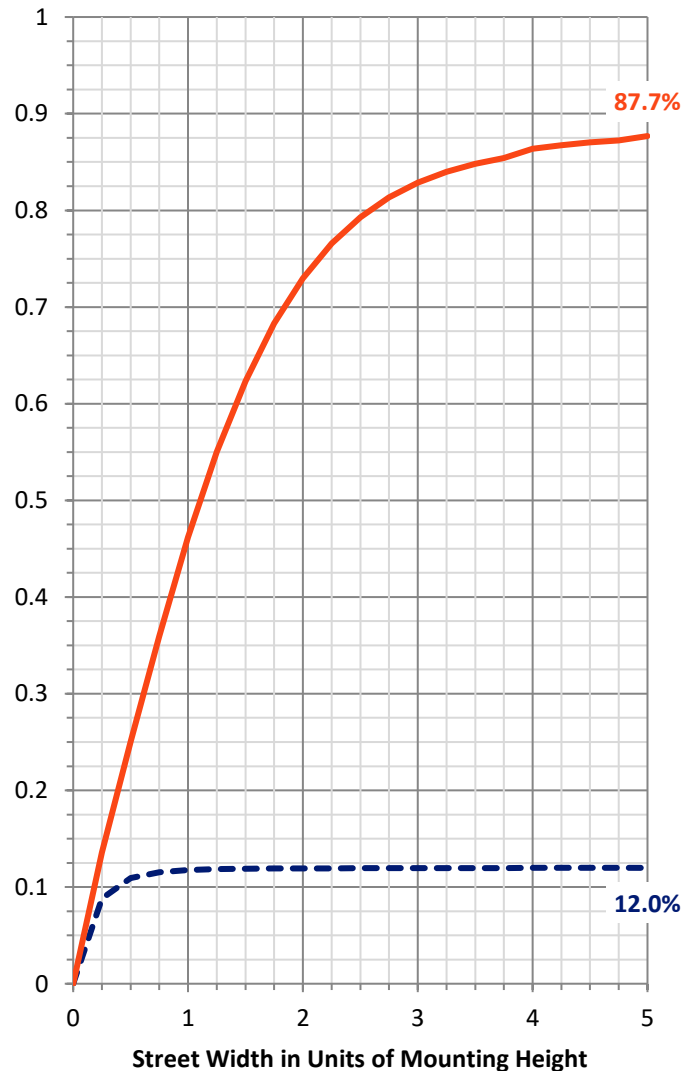
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	621.9	0.0	621.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	4516.1	0.0	4516.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	5138.0	0.0	5138.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	2.5
10°-20°	255.7	5.0
20°-30°	363.1	7.1
30°-40°	536.3	10.4
40°-50°	773.4	15.1
50°-60°	1085.7	21.1
60°-70°	1265.7	24.6
70°-80°	647.0	12.6
80°-90°	82.6	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°	5138.0	100.0
0°-180°	5138.0	100.0



REPORT NUMBER: P386112

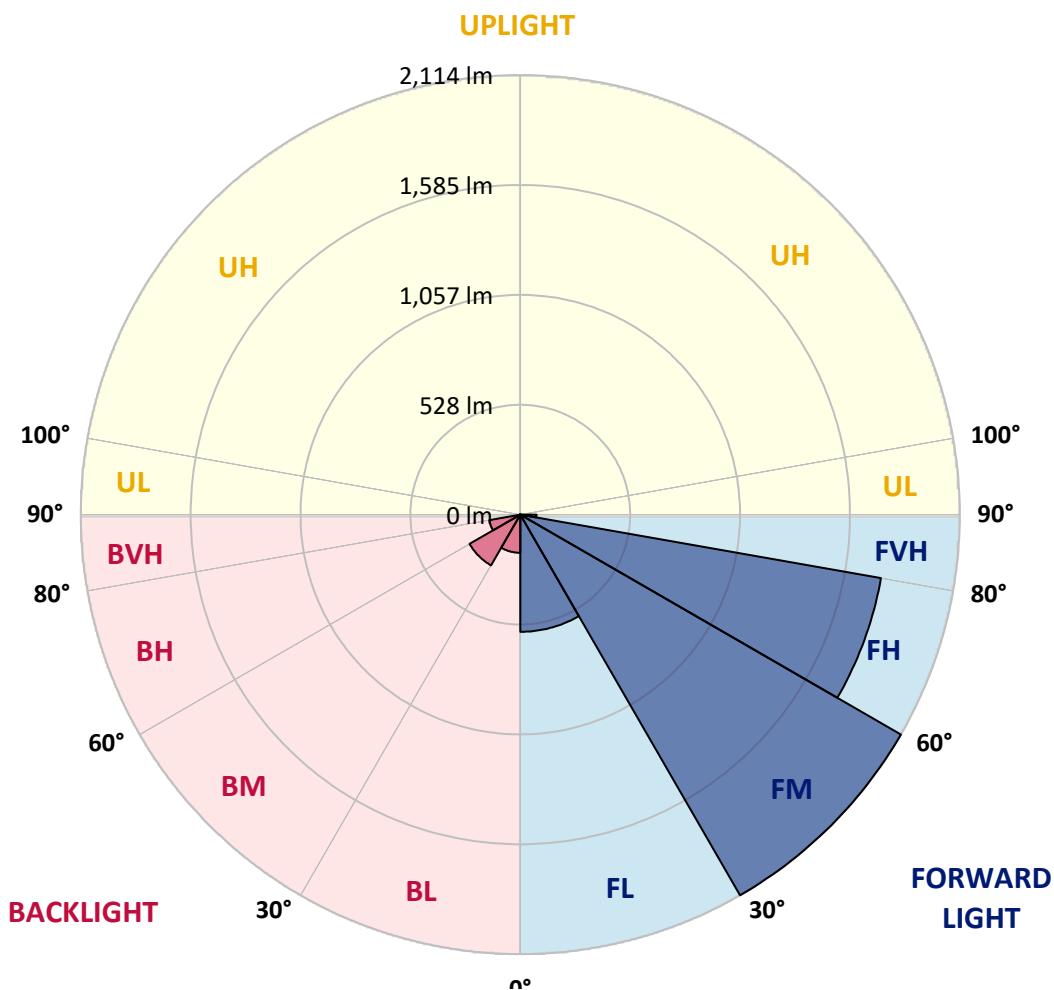
CATALOG NUMBER: GWC-SA1D-727-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	563.5	11.0			
FM	(30°-60°)	2113.9	41.1			
FH	(60°-80°)	1761.1	34.3			G1/1800
FVH	(80°-90°)	77.6	1.5			G1/100
BL	(0°-30°)	183.7	3.6	B1/500		
BM	(30°-60°)	281.6	5.5	B1/1000		
BH	(60°-80°)	151.6	2.9	B1/500		G1/500
BVH	(80°-90°)	5.0	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-G1

Type IV Medium



REPORT NUMBER: P386112

CATALOG NUMBER: GWC-SA1D-727-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7
2.5°	1832.6	1818.5	1802.9	1752.1	1704.9	1650.8	1606.8	1576.1	1537.6	1487.7	1475.1
5°	1819.5	1804.4	1755.5	1642.3	1543.2	1446.8	1353.9	1299.3	1231.7	1163.0	1146.0
7.5°	1687.3	1671.5	1600.9	1445.9	1312.5	1173.2	1052.5	977.8	901.4	838.6	805.2
10°	1549.8	1532.5	1453.2	1265.0	1100.7	974.9	886.3	814.9	742.6	675.5	621.9
12.5°	1455.1	1432.5	1346.3	1133.1	990.0	904.5	821.8	736.3	638.5	566.4	507.5
15°	1415.4	1389.6	1298.6	1082.2	950.8	850.5	742.6	637.7	523.1	440.6	386.5
17.5°	1446.1	1412.5	1314.9	1078.8	901.6	765.0	628.7	505.6	381.2	297.7	259.2
20°	1550.3	1506.2	1382.3	1077.8	842.0	663.5	490.7	351.5	251.2	202.0	181.8
22.5°	1714.3	1656.2	1479.2	1085.6	780.4	556.9	354.4	238.8	188.6	163.1	151.2
25°	1912.5	1845.1	1618.7	1113.1	726.3	453.2	257.5	188.6	159.2	140.4	130.5
27.5°	2100.9	2046.1	1794.9	1152.8	684.5	369.5	209.1	159.9	136.1	123.7	115.6
30°	2289.0	2220.2	1975.8	1200.0	634.1	312.8	183.8	145.8	121.9	108.8	103.7
32.5°	2425.8	2368.6	2117.4	1234.1	580.3	275.8	164.3	133.4	113.9	100.5	93.0
35°	2586.7	2522.0	2238.9	1241.6	545.7	252.4	147.8	120.0	98.8	86.9	78.9
37.5°	2760.5	2680.0	2379.1	1225.1	518.7	241.0	135.3	113.9	92.3	80.1	71.6
40°	2952.8	2861.8	2513.7	1201.2	492.2	237.1	125.8	109.3	87.1	74.7	66.0
42.5°	3155.3	3048.0	2630.3	1176.2	475.4	223.7	124.9	104.7	83.2	69.9	61.1
45°	3325.5	3216.7	2750.1	1167.9	463.5	209.1	129.0	101.5	80.6	66.0	57.4
47.5°	3461.1	3358.1	2872.7	1186.4	456.6	195.7	117.6	105.6	79.1	62.6	54.3
50°	3622.9	3506.3	3045.6	1241.6	446.7	182.3	106.4	121.0	79.1	60.4	51.6
52.5°	3825.9	3710.6	3238.3	1327.3	426.7	163.8	95.7	121.2	79.8	57.4	48.2
55°	4081.3	3997.5	3513.6	1421.3	394.8	136.6	82.8	104.2	76.9	52.1	45.0
57.5°	4326.1	4257.7	3764.6	1485.5	352.2	106.6	72.0	84.0	70.3	45.8	40.2
59°	4393.1	4318.4	3856.6	1488.5	320.3	93.0	66.7	69.4	68.9	42.8	37.2
60°	4393.1	4313.7	3883.1	1472.9	297.2	85.4	63.3	61.8	71.8	40.9	35.5
62.5°	4313.5	4202.0	3797.0	1367.5	242.4	72.8	55.3	51.1	64.5	36.8	31.4
65°	4148.0	3985.6	3503.4	1176.9	216.1	66.7	47.7	41.9	44.8	32.4	27.5
67.5°	3871.9	3651.9	3080.1	950.8	205.7	65.0	41.1	35.5	33.8	27.7	24.1
70°	3385.8	3141.7	2566.3	747.5	196.7	64.3	34.6	29.9	27.3	23.4	20.4
72.5°	2464.3	2209.7	1821.9	584.4	191.3	65.7	27.7	25.1	22.4	18.3	15.8
75°	1409.6	1242.9	1024.0	386.0	163.1	62.8	21.4	20.9	16.1	13.1	11.0
77.5°	728.3	706.1	613.6	148.2	78.1	27.5	14.1	12.2	9.5	8.0	6.6
80°	314.2	310.8	269.0	42.8	20.7	15.3	8.0	5.1	4.4	3.4	2.7
82.5°	108.6	108.6	95.7	14.4	9.2	7.5	1.0	0.0	0.0	0.0	0.0
85°	21.9	24.6	17.3	0.0	3.2	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: P386112

CATALOG NUMBER: GWC-SA1D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7
2.5°	1459.7	1430.3	1428.3	1409.8	1386.7	1376.2	1370.2	1380.9	1394.0	1395.5	1415.2
5°	1133.1	1102.2	1115.1	1082.2	1088.8	1082.2	1071.5	1073.4	1079.3	1061.0	1083.7
7.5°	795.7	772.3	787.2	778.4	790.1	794.7	788.2	778.4	749.7	746.3	766.0
10°	599.8	573.2	557.4	540.9	544.5	552.1	549.6	542.6	524.3	525.3	544.3
12.5°	482.0	452.3	420.9	380.2	370.2	375.8	370.2	366.1	348.6	350.0	366.8
15°	365.6	341.3	308.4	275.8	258.0	259.7	244.1	233.2	222.2	209.1	219.3
17.5°	246.8	232.0	222.2	212.5	191.3	186.5	166.7	145.6	137.3	131.2	135.6
20°	174.8	166.7	162.8	162.4	150.2	144.1	124.9	111.7	107.6	106.4	109.0
22.5°	146.0	140.2	134.6	131.4	125.4	118.3	103.7	97.1	94.2	92.7	94.7
25°	127.1	122.7	116.8	111.5	109.0	101.5	91.0	86.2	84.2	82.8	83.7
27.5°	112.9	109.0	102.2	98.8	96.9	90.3	81.3	77.4	75.7	75.2	75.0
30°	101.7	98.1	91.8	87.9	84.5	78.6	73.3	69.4	67.7	67.2	66.7
32.5°	90.5	87.6	83.5	79.6	75.9	70.6	66.0	62.8	60.1	59.6	59.4
35°	76.4	73.5	71.3	71.1	67.7	62.6	59.1	55.0	52.8	52.1	52.3
37.5°	67.9	64.0	59.1	60.9	59.9	56.2	51.6	47.5	45.3	44.8	44.8
40°	62.6	58.4	52.8	49.9	52.8	52.1	44.8	40.6	38.5	38.2	37.7
42.5°	57.4	53.3	47.0	42.1	43.6	45.8	38.7	34.8	32.6	32.1	31.4
45°	53.8	49.4	42.4	36.8	33.8	38.5	33.1	28.2	27.0	26.0	25.6
47.5°	50.4	46.2	38.2	31.9	27.0	27.7	26.5	23.1	21.7	20.7	20.4
50°	47.5	43.1	34.6	27.3	22.4	20.4	21.4	18.3	17.0	16.1	15.6
52.5°	44.1	39.9	30.7	23.6	18.7	16.1	16.3	14.4	13.1	12.4	12.2
55°	41.4	37.2	27.5	20.7	16.6	13.1	11.7	11.2	10.5	10.0	9.7
57.5°	37.7	33.8	24.3	17.5	14.1	10.7	9.0	9.0	8.8	8.3	8.0
59°	35.5	32.1	22.4	15.8	12.9	9.2	8.0	8.3	8.0	7.5	7.3
60°	33.8	30.7	20.9	14.6	12.2	8.5	7.3	7.8	7.5	7.1	6.8
62.5°	29.9	27.7	18.0	12.2	10.7	6.8	6.1	6.6	6.6	6.3	6.1
65°	26.3	23.9	15.3	10.2	10.0	5.8	4.9	5.8	6.1	5.6	5.1
67.5°	22.9	20.4	13.4	8.3	9.2	4.6	3.7	4.9	6.6	5.1	4.6
70°	19.5	17.0	10.5	6.6	9.7	3.2	2.9	4.4	7.8	5.6	4.4
72.5°	15.1	13.1	7.3	4.9	10.5	2.2	2.2	3.7	8.8	6.1	4.1
75°	10.5	8.5	4.4	2.9	8.5	1.5	1.5	3.4	8.3	5.6	3.9
77.5°	6.1	4.6	1.5	0.2	4.4	0.0	0.2	2.4	5.8	3.4	1.7
80°	2.2	1.0	0.0	0.0	2.7	0.0	0.0	0.0	0.5	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: P386112

CATALOG NUMBER: GWC-SA1D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7
2.5°	1420.3	1453.2	1482.6	1527.2	1580.0	1640.8	1693.2	1749.4	1802.2	1824.1	1839.2
5°	1088.3	1128.9	1176.4	1241.9	1329.0	1436.4	1536.9	1650.6	1772.8	1833.9	1891.3
7.5°	769.4	810.8	869.7	939.3	1044.7	1172.5	1304.0	1461.0	1626.5	1723.1	1818.3
10°	553.3	604.1	659.2	754.3	861.4	982.7	1118.0	1293.2	1477.7	1584.8	1699.5
12.5°	376.6	434.5	517.7	624.3	750.2	869.0	986.5	1153.8	1368.0	1474.1	1597.0
15°	225.9	258.0	346.1	469.5	623.9	771.9	900.6	1068.3	1296.7	1426.6	1554.4
17.5°	139.2	154.1	202.0	303.3	465.4	652.6	829.1	1039.4	1306.9	1465.1	1601.9
20°	111.0	116.8	132.2	179.2	308.4	521.1	748.5	1033.5	1390.4	1585.1	1731.9
22.5°	96.4	102.0	112.2	130.2	194.0	390.2	672.1	1038.9	1510.1	1765.0	1936.3
25°	85.0	89.8	99.6	114.4	142.2	274.8	590.3	1062.7	1666.1	1988.2	2170.3
27.5°	75.9	80.1	89.1	102.7	121.9	191.8	497.5	1091.7	1851.1	2216.5	2396.1
30°	67.7	71.3	79.4	92.0	105.9	147.5	395.8	1111.4	2036.4	2396.1	2557.5
32.5°	60.6	63.3	70.6	81.3	92.0	117.6	300.9	1108.3	2173.9	2545.6	2673.6
35°	53.3	56.0	62.3	71.6	80.1	97.1	236.6	1049.1	2293.7	2700.6	2806.5
37.5°	45.3	48.7	54.8	63.0	68.9	85.4	191.3	977.8	2415.1	2877.8	2954.8
40°	38.5	41.9	47.2	56.2	59.9	81.1	147.0	890.9	2551.7	3076.0	3117.4
42.5°	31.9	35.1	40.6	48.4	56.5	69.9	108.8	791.6	2682.9	3245.4	3265.6
45°	25.8	29.0	34.8	42.6	60.4	57.9	84.2	685.2	2788.8	3386.3	3392.9
47.5°	20.4	23.4	29.5	40.2	56.2	46.2	60.1	601.7	2877.6	3496.4	3479.1
50°	15.8	18.3	24.6	46.0	49.2	38.2	45.5	574.0	2957.2	3564.5	3519.7
52.5°	12.4	14.6	20.2	43.1	38.2	31.6	38.2	600.0	3066.2	3621.0	3542.6
55°	10.0	12.2	15.8	24.6	26.0	26.8	32.6	624.3	3254.4	3753.4	3677.7
57.5°	8.3	10.5	12.9	17.3	19.7	22.6	29.0	627.0	3476.2	3973.4	3901.9
59°	7.5	9.5	11.7	15.3	17.3	20.7	27.3	612.4	3554.3	4053.5	4017.7
60°	7.1	9.0	11.0	14.1	16.1	19.5	26.3	598.5	3557.7	4050.6	4067.2
62.5°	6.1	8.0	9.7	11.9	13.6	16.6	23.6	547.2	3413.6	3917.9	4037.5
65°	5.4	7.1	8.8	10.2	11.7	14.8	21.4	453.5	3167.5	3704.0	3834.2
67.5°	4.9	6.1	8.0	9.0	10.5	13.1	19.0	323.2	2860.1	3442.3	3526.8
70°	4.4	5.8	7.3	8.3	9.5	11.4	16.3	185.7	2415.1	3059.2	3119.3
72.5°	4.1	5.6	6.6	7.8	8.5	10.2	14.8	87.4	1768.4	2450.7	2607.7
75°	3.7	5.1	6.1	7.3	8.0	9.2	12.7	41.9	1176.2	1773.5	1951.9
77.5°	2.2	4.1	5.6	6.6	7.1	8.0	10.5	24.1	750.7	1227.5	1445.9
80°	0.0	1.5	4.1	5.6	6.1	6.8	8.0	19.0	401.6	701.3	841.7
82.5°	0.0	0.0	2.9	4.4	4.1	4.6	6.1	11.9	181.1	458.3	516.5
85°	0.0	0.0	1.0	3.4	2.9	2.2	4.1	4.1	39.7	232.0	289.4
87.5°	0.0	0.0	0.0	0.2	1.5	1.0	1.7	0.5	0.2	17.3	70.1
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: P386112

CATALOG NUMBER: GWC-SA1D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7	1673.7
2.5°	1892.0	1910.0	1940.5	1954.8	1947.8	1917.8	1882.1	1845.5	1824.1	1832.6
5°	2008.4	2101.1	2154.7	2172.4	2142.7	2075.6	1987.7	1871.8	1830.7	1819.5
7.5°	2008.4	2182.9	2293.4	2312.9	2246.7	2115.0	1950.2	1769.4	1709.2	1687.3
10°	1937.8	2175.4	2329.4	2360.4	2267.9	2070.9	1850.2	1643.8	1572.4	1549.8
12.5°	1858.2	2114.0	2276.4	2319.0	2243.0	2027.1	1780.8	1558.8	1474.8	1455.1
15°	1809.3	2038.6	2172.9	2203.8	2171.7	2001.6	1764.2	1533.2	1434.4	1415.4
17.5°	1826.8	1980.1	2028.6	2046.6	2068.3	1992.6	1809.3	1589.2	1464.1	1446.1
20°	1892.8	1918.6	1893.5	1916.1	1974.5	2001.3	1916.6	1724.6	1574.4	1550.3
22.5°	2004.7	1886.7	1816.3	1825.3	1896.4	2030.3	2080.7	1917.8	1744.5	1714.3
25°	2135.2	1912.5	1773.5	1765.5	1838.5	2068.5	2230.6	2128.1	1945.8	1912.5
27.5°	2299.3	1970.4	1764.7	1756.7	1818.3	2104.3	2355.2	2336.0	2157.8	2100.9
30°	2425.8	2027.4	1790.8	1772.3	1838.5	2129.1	2455.3	2512.5	2326.8	2289.0
32.5°	2516.6	2094.6	1833.1	1806.4	1895.4	2172.0	2532.4	2674.1	2483.0	2425.8
35°	2585.8	2167.6	1901.5	1857.5	1973.8	2236.9	2604.7	2846.2	2649.3	2586.7
37.5°	2650.5	2270.1	2008.4	1955.8	2096.7	2341.6	2681.2	3041.4	2835.3	2760.5
40°	2740.8	2386.2	2173.2	2126.4	2303.4	2484.3	2776.6	3244.9	3046.8	2952.8
42.5°	2831.1	2510.8	2341.9	2354.5	2561.2	2657.6	2899.8	3460.1	3255.6	3155.3
45°	2913.6	2639.3	2582.1	2640.5	2800.4	2847.7	3022.2	3584.5	3422.4	3325.5
47.5°	2987.1	2800.0	2820.9	2976.4	3072.6	3019.8	3113.7	3691.8	3546.5	3461.1
50°	3072.6	3007.8	3135.6	3355.7	3385.8	3175.5	3197.0	3818.9	3691.6	3622.9
52.5°	3166.0	3226.9	3484.2	3678.2	3668.4	3344.7	3280.7	3961.3	3890.4	3825.9
55°	3272.2	3403.9	3791.1	3980.0	3971.7	3533.6	3419.4	4137.3	4139.7	4081.3
57.5°	3429.7	3556.2	3999.5	4224.2	4238.0	3751.7	3654.6	4334.4	4365.1	4326.1
59°	3542.6	3655.1	4082.0	4326.1	4382.6	3920.4	3826.4	4448.8	4428.6	4393.1
60°	3626.3	3717.9	4122.9	4379.5	4466.6	4034.8	3953.2	4516.0	4436.2	4393.1
62.5°	3833.5	3854.7	4196.6	4439.8	4563.2	4288.9	4310.1	4630.4	4383.8	4313.5
65°	3930.1	3941.1	4195.7	4331.7	4469.8	4486.8	4633.8	4633.8	4256.0	4148.0
67.5°	3889.7	3836.9	3987.6	3973.4	4111.2	4369.2	4755.5	4463.9	4011.7	3871.9
70°	3561.1	3357.9	3290.9	3297.0	3402.4	3800.4	4514.5	3963.9	3549.2	3385.8
72.5°	2963.0	2475.5	2310.2	2498.9	2526.4	2920.7	3847.4	2985.2	2617.4	2464.3
75°	2383.2	1745.0	1476.3	1675.4	1722.1	2137.4	2976.2	1859.2	1528.9	1409.6
77.5°	1712.2	1252.6	1059.3	1045.5	1105.8	1355.6	2111.8	935.7	780.4	728.3
80°	972.7	824.4	887.7	837.6	868.0	847.6	1003.3	410.4	336.2	314.2
82.5°	587.1	487.3	527.7	439.4	556.0	484.1	386.5	131.4	114.2	108.6
85°	381.9	266.3	138.7	93.0	191.6	309.4	86.4	35.8	27.5	21.9
87.5°	131.7	67.9	6.8	2.9	20.4	57.7	3.2	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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