

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: STREETWORKS

Report Number: P385720

Luminaire Tested: GAW-SA1B-735-U-SLR-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P385720
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
Product Line: STREETWORKS
Catalog Number: GAW-SA1B-735-U-SLR-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3500K, 800mA 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: 4249.8 lumens
Efficiency: N/A
Efficacy: 96.6 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

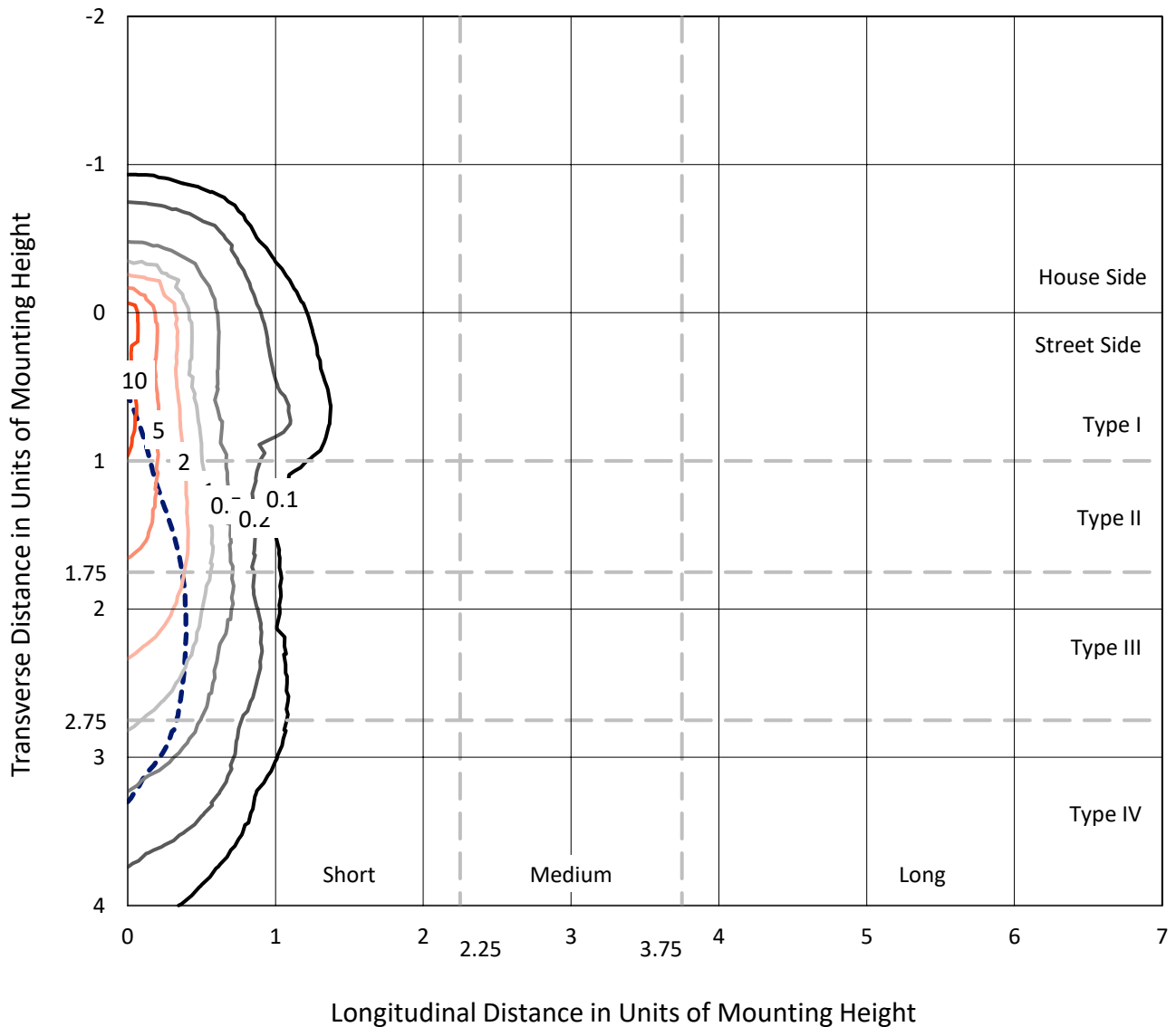
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P385720
 CATALOG NUMBER: GAW-SA1B-735-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

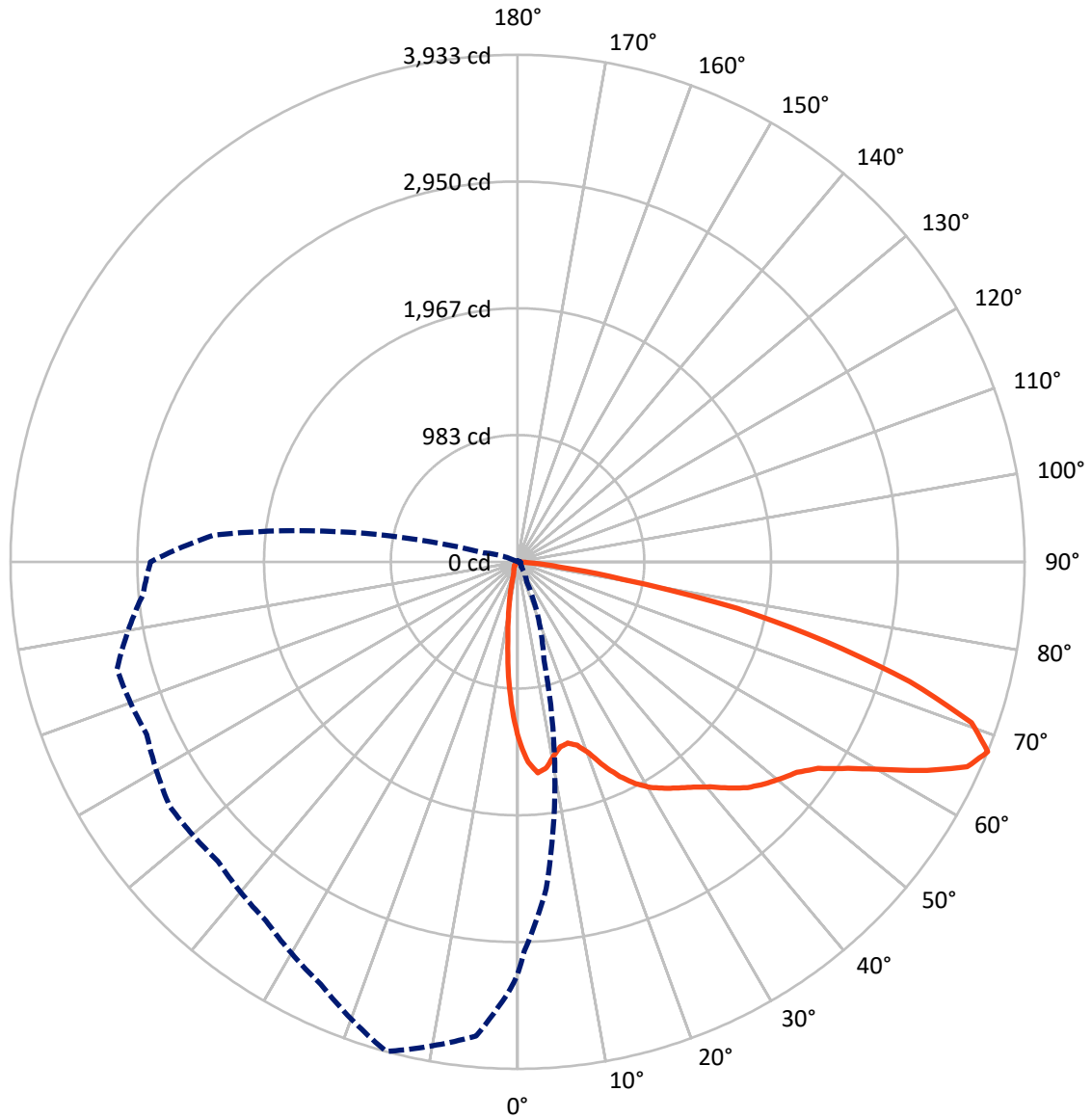
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P385720
CATALOG NUMBER: GAW-SA1B-735-U-SLR-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P385720
 CATALOG NUMBER: GAW-SA1B-735-U-SLR-HSS

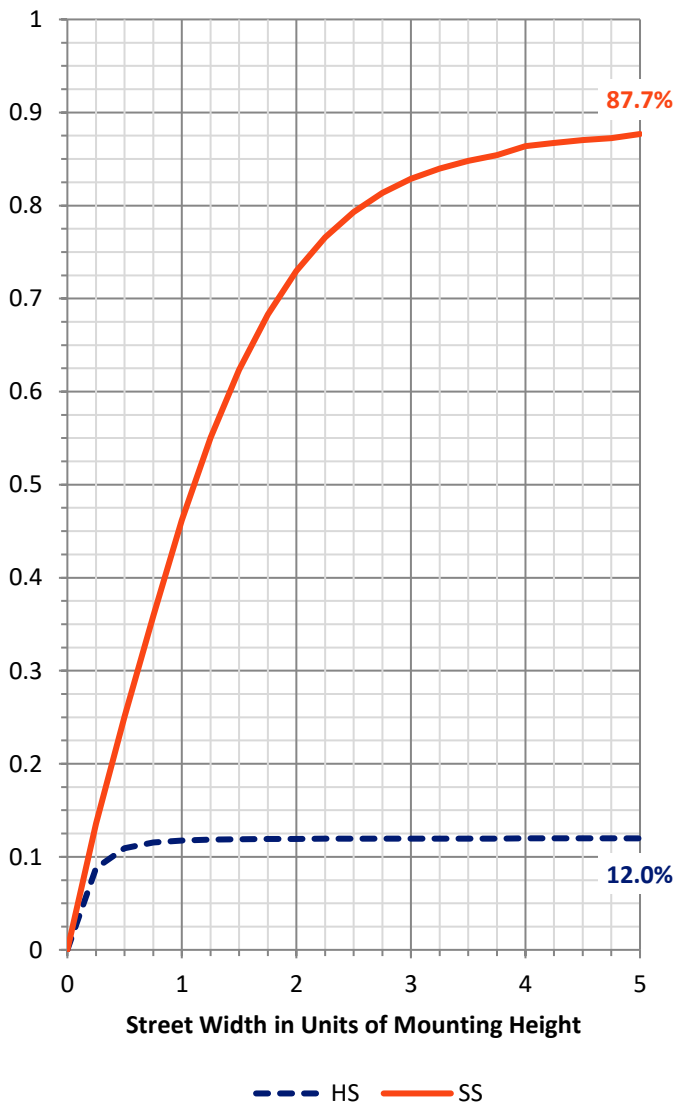
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	514.4	0.0	514.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	3735.4	0.0	3735.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	4249.8	0.0	4249.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	2.5
10°-20°	211.5	5.0
20°-30°	300.3	7.1
30°-40°	443.6	10.4
40°-50°	639.7	15.1
50°-60°	898.0	21.1
60°-70°	1046.9	24.6
70°-80°	535.2	12.6
80°-90°	68.3	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°	4249.8	100.0
0°-180°	4249.8	100.0

Coefficient of Utilization

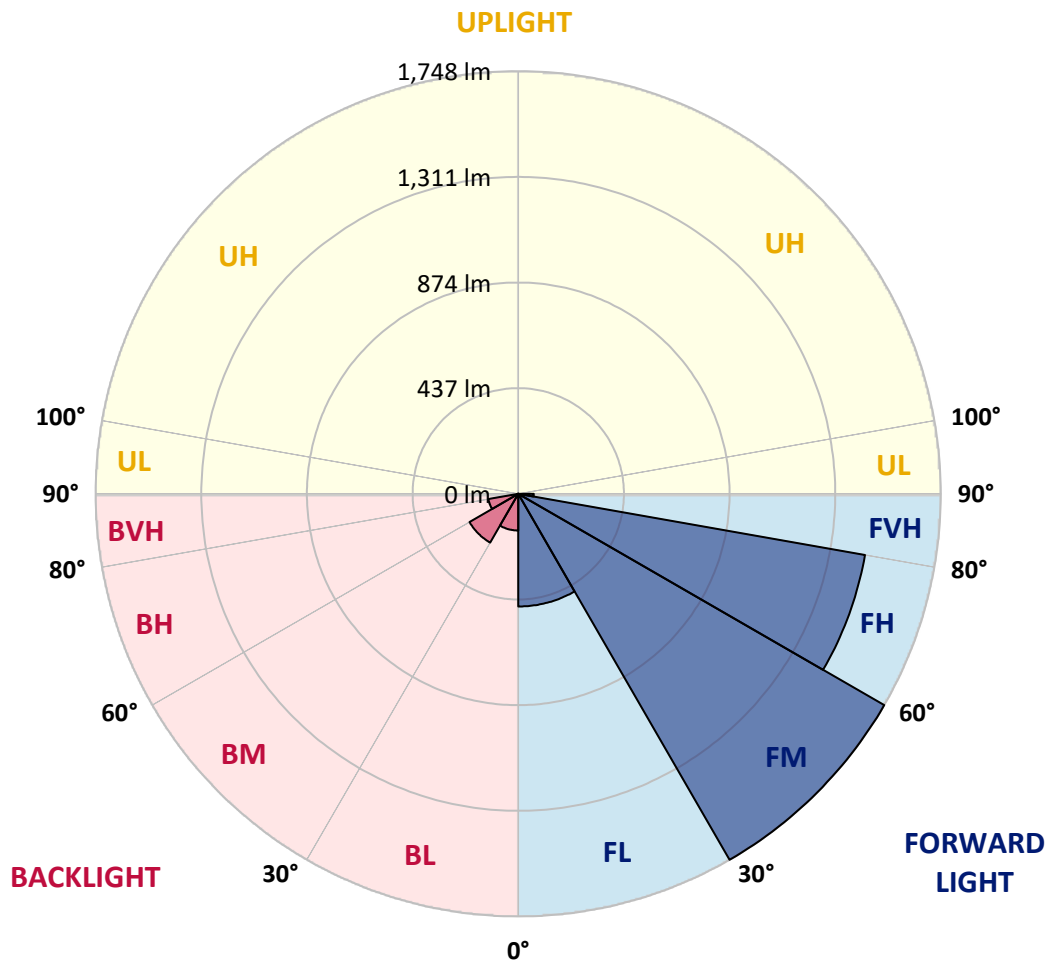


REPORT NUMBER: P385720
 CATALOG NUMBER: GAW-SA1B-735-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	466.1	11.0			
FM (30°-60°)	1748.4	41.1			
FH (60°-80°)	1456.7	34.3			G1/1800
FVH (80°-90°)	64.2	1.5			G1/100
BL (0°-30°)	151.9	3.6	B1/500		
BM (30°-60°)	232.9	5.5	B1/1000		
BH (60°-80°)	125.4	2.9	B1/500		G1/500
BVH (80°-90°)	4.2	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: P385720

CATALOG NUMBER: GAW-SA1B-735-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4
2.5°	1515.8	1504.2	1491.3	1449.2	1410.1	1365.4	1329.0	1303.6	1271.8	1230.5	1220.1
5°	1505.0	1492.5	1452.0	1358.4	1276.4	1196.7	1119.9	1074.8	1018.8	961.9	947.8
7.5°	1395.7	1382.6	1324.2	1195.9	1085.6	970.4	870.5	808.7	745.5	693.6	666.0
10°	1281.9	1267.6	1202.0	1046.3	910.5	806.4	733.0	674.1	614.3	558.7	514.4
12.5°	1203.6	1184.9	1113.6	937.2	818.9	748.1	679.7	609.0	528.1	468.5	419.8
15°	1170.8	1149.4	1074.1	895.1	786.4	703.4	614.3	527.5	432.7	364.4	319.7
17.5°	1196.1	1168.3	1087.6	892.3	745.8	632.8	520.0	418.1	315.3	246.2	214.5
20°	1282.3	1245.8	1143.3	891.5	696.4	548.8	405.9	290.7	207.8	167.1	150.4
22.5°	1418.0	1369.9	1223.5	898.0	645.5	460.7	293.2	197.6	156.0	134.9	125.0
25°	1581.8	1526.1	1338.8	920.7	600.7	374.9	213.1	156.0	131.7	116.2	107.9
27.5°	1737.7	1692.4	1484.6	953.5	566.2	305.6	172.9	132.3	112.5	102.3	95.6
30°	1893.3	1836.3	1634.3	992.6	524.5	258.7	152.0	120.6	100.9	90.0	85.8
32.5°	2006.5	1959.2	1751.4	1020.7	479.9	228.1	135.9	110.3	94.2	83.1	76.9
35°	2139.6	2086.0	1851.8	1027.0	451.4	208.8	122.2	99.3	81.7	71.9	65.2
37.5°	2283.3	2216.7	1967.8	1013.3	429.0	199.3	112.0	94.2	76.3	66.2	59.2
40°	2442.4	2367.1	2079.2	993.6	407.1	196.1	104.1	90.4	72.1	61.8	54.6
42.5°	2609.9	2521.1	2175.6	972.8	393.2	185.1	103.2	86.6	68.9	57.8	50.5
45°	2750.6	2660.6	2274.6	966.0	383.4	172.9	106.7	84.0	66.6	54.6	47.5
47.5°	2862.8	2777.6	2376.1	981.3	377.7	161.9	97.2	87.4	65.5	51.8	44.9
50°	2996.7	2900.2	2519.1	1027.0	369.5	150.8	88.0	100.0	65.5	50.0	42.6
52.5°	3164.5	3069.1	2678.6	1097.9	352.9	135.5	79.1	100.2	66.0	47.5	39.8
55°	3375.8	3306.5	2906.3	1175.6	326.5	112.9	68.5	86.1	63.6	43.1	37.2
57.5°	3578.3	3521.7	3113.8	1228.7	291.3	88.2	59.6	69.4	58.1	37.9	33.3
59°	3633.7	3571.9	3189.9	1231.2	264.9	76.9	55.1	57.4	57.0	35.4	30.8
60°	3633.7	3568.0	3211.9	1218.3	245.8	70.6	52.3	51.1	59.4	33.8	29.4
62.5°	3567.8	3475.7	3140.6	1131.1	200.6	60.2	45.7	42.3	53.4	30.4	25.9
65°	3430.9	3296.6	2897.8	973.5	178.8	55.1	39.5	34.7	37.0	26.8	22.7
67.5°	3202.6	3020.6	2547.6	786.4	170.1	53.7	34.0	29.4	28.0	22.9	19.9
70°	2800.5	2598.6	2122.7	618.3	162.7	53.2	28.6	24.8	22.5	19.4	16.9
72.5°	2038.3	1827.7	1507.0	483.4	158.3	54.4	22.9	20.8	18.5	15.1	13.1
75°	1165.9	1028.0	847.1	319.3	134.9	51.9	17.8	17.3	13.2	10.9	9.0
77.5°	602.4	584.1	507.6	122.6	64.6	22.7	11.6	10.1	7.9	6.7	5.4
80°	259.9	257.1	222.4	35.4	17.1	12.7	6.7	4.2	3.7	2.8	2.3
82.5°	89.8	89.8	79.1	11.8	7.6	6.2	0.8	0.0	0.0	0.0	0.0
85°	18.1	20.3	14.3	0.0	2.6	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: P385720
 CATALOG NUMBER: GAW-SA1B-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4
2.5°	1207.4	1183.1	1181.4	1166.2	1147.0	1138.4	1133.3	1142.2	1153.0	1154.2	1170.6
5°	937.2	911.7	922.3	895.1	900.6	895.1	886.2	887.9	892.7	877.6	896.4
7.5°	658.1	638.8	651.1	643.9	653.5	657.4	651.9	643.9	620.1	617.3	633.6
10°	496.1	474.1	461.1	447.3	450.3	456.6	454.6	448.7	433.7	434.5	450.2
12.5°	398.7	374.1	348.1	314.5	306.2	310.8	306.2	302.8	288.3	289.5	303.4
15°	302.4	282.3	255.0	228.1	213.4	214.8	202.0	192.9	183.8	172.9	181.4
17.5°	204.1	191.8	183.8	175.8	158.3	154.2	137.9	120.4	113.6	108.5	112.2
20°	144.6	137.9	134.7	134.3	124.2	119.2	103.2	92.4	89.0	88.0	90.2
22.5°	120.8	116.0	111.3	108.7	103.7	97.9	85.8	80.3	77.9	76.7	78.3
25°	105.1	101.5	96.7	92.2	90.2	84.0	75.3	71.3	69.7	68.5	69.2
27.5°	93.4	90.2	84.5	81.7	80.1	74.7	67.3	64.1	62.7	62.2	62.0
30°	84.2	81.2	75.9	72.7	69.9	65.0	60.6	57.4	56.0	55.6	55.1
32.5°	74.9	72.5	69.0	65.9	62.8	58.4	54.6	51.9	49.7	49.3	49.1
35°	63.2	60.8	59.0	58.8	56.0	51.8	48.9	45.5	43.7	43.1	43.3
37.5°	56.2	53.0	48.9	50.4	49.5	46.5	42.6	39.3	37.5	37.0	37.0
40°	51.8	48.3	43.7	41.2	43.7	43.1	37.0	33.6	31.8	31.6	31.2
42.5°	47.5	44.1	38.9	34.9	36.1	37.9	32.0	28.7	27.0	26.6	25.9
45°	44.5	40.9	35.0	30.4	28.0	31.8	27.3	23.4	22.4	21.5	21.1
47.5°	41.7	38.2	31.6	26.4	22.4	22.9	22.0	19.2	17.9	17.1	16.9
50°	39.3	35.6	28.6	22.5	18.5	16.9	17.8	15.1	14.1	13.2	12.9
52.5°	36.4	33.0	25.4	19.5	15.5	13.2	13.5	11.8	10.9	10.2	10.1
55°	34.2	30.8	22.7	17.1	13.7	10.9	9.7	9.3	8.6	8.3	8.1
57.5°	31.2	28.0	20.1	14.5	11.6	8.8	7.4	7.4	7.2	6.9	6.7
59°	29.4	26.6	18.5	13.1	10.7	7.6	6.7	6.9	6.7	6.2	6.0
60°	28.0	25.4	17.3	12.1	10.1	7.0	6.0	6.5	6.2	5.8	5.6
62.5°	24.8	22.9	14.9	10.1	8.8	5.6	5.1	5.4	5.4	5.3	5.1
65°	21.7	19.7	12.7	8.5	8.3	4.8	4.0	4.8	5.1	4.6	4.2
67.5°	18.9	16.9	11.1	6.9	7.6	3.9	3.0	4.0	5.4	4.2	3.9
70°	16.1	14.1	8.6	5.4	8.1	2.6	2.4	3.7	6.5	4.6	3.7
72.5°	12.5	10.9	6.0	4.0	8.6	1.8	1.8	3.0	7.2	5.1	3.4
75°	8.6	7.0	3.7	2.4	7.0	1.2	1.2	2.8	6.9	4.6	3.2
77.5°	5.1	3.9	1.2	0.2	3.7	0.0	0.2	2.0	4.8	2.8	1.4
80°	1.8	0.8	0.0	0.0	2.3	0.0	0.0	0.0	0.4	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: P385720
 CATALOG NUMBER: GAW-SA1B-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4
2.5°	1174.8	1202.0	1226.3	1263.2	1306.9	1357.2	1400.4	1446.9	1490.6	1508.8	1521.3
5°	900.1	933.8	973.0	1027.2	1099.3	1188.1	1271.2	1365.2	1466.3	1516.8	1564.4
7.5°	636.4	670.6	719.4	777.0	864.1	969.8	1078.5	1208.4	1345.3	1425.2	1504.0
10°	457.7	499.7	545.2	623.9	712.5	812.8	924.7	1069.7	1222.3	1310.9	1405.7
12.5°	311.5	359.4	428.3	516.4	620.5	718.7	816.1	954.3	1131.5	1219.2	1321.0
15°	186.8	213.4	286.3	388.3	516.0	638.4	744.9	883.7	1072.5	1180.0	1285.7
17.5°	115.2	127.5	167.1	250.8	385.0	539.8	685.8	859.7	1081.0	1211.8	1325.0
20°	91.8	96.7	109.3	148.1	255.0	431.1	619.1	854.8	1150.0	1311.1	1432.5
22.5°	79.8	84.4	92.8	107.7	160.4	322.8	555.8	859.3	1249.1	1459.9	1601.6
25°	70.3	74.3	82.4	94.6	117.6	227.3	488.2	879.0	1378.1	1644.5	1795.1
27.5°	62.8	66.2	73.6	84.9	100.9	158.7	411.5	902.9	1531.1	1833.3	1981.9
30°	56.0	59.0	65.7	76.1	87.6	122.0	327.4	919.3	1684.3	1981.9	2115.4
32.5°	50.2	52.3	58.4	67.3	76.1	97.2	248.8	916.7	1798.1	2105.6	2211.4
35°	44.1	46.3	51.6	59.2	66.2	80.3	195.7	867.7	1897.2	2233.8	2321.3
37.5°	37.5	40.3	45.3	52.1	57.0	70.6	158.3	808.7	1997.6	2380.3	2444.0
40°	31.8	34.7	39.1	46.5	49.5	67.1	121.7	736.9	2110.5	2544.3	2578.4
42.5°	26.4	29.0	33.6	40.1	46.7	57.8	90.0	654.8	2219.1	2684.4	2701.1
45°	21.3	24.0	28.7	35.2	50.0	47.9	69.7	566.7	2306.7	2801.0	2806.3
47.5°	16.9	19.4	24.3	33.3	46.5	38.2	49.7	497.7	2380.1	2891.9	2877.6
50°	13.1	15.1	20.3	38.0	40.7	31.6	37.7	474.8	2446.0	2948.3	2911.3
52.5°	10.2	12.1	16.7	35.6	31.6	26.2	31.6	496.3	2536.2	2995.1	2930.3
55°	8.3	10.1	13.1	20.3	21.5	22.2	27.0	516.4	2691.8	3104.6	3041.9
57.5°	6.9	8.6	10.7	14.3	16.3	18.7	24.0	518.6	2875.2	3286.6	3227.4
59°	6.2	7.9	9.7	12.7	14.3	17.1	22.5	506.5	2939.8	3352.8	3323.2
60°	5.8	7.4	9.0	11.6	13.2	16.1	21.7	495.1	2942.7	3350.3	3364.1
62.5°	5.1	6.7	8.1	9.9	11.3	13.7	19.5	452.6	2823.5	3240.6	3339.5
65°	4.4	5.8	7.2	8.5	9.7	12.3	17.8	375.1	2620.0	3063.7	3171.4
67.5°	4.0	5.1	6.7	7.4	8.6	10.9	15.7	267.4	2365.7	2847.3	2917.1
70°	3.7	4.8	6.0	6.9	7.9	9.5	13.5	153.6	1997.6	2530.4	2580.0
72.5°	3.4	4.6	5.4	6.5	7.0	8.5	12.3	72.2	1462.7	2027.0	2156.8
75°	3.0	4.2	5.1	6.0	6.7	7.6	10.4	34.7	972.8	1467.0	1614.5
77.5°	1.8	3.4	4.6	5.4	5.8	6.7	8.6	19.9	620.9	1015.3	1195.9
80°	0.0	1.2	3.4	4.6	5.1	5.6	6.7	15.7	332.2	580.1	696.2
82.5°	0.0	0.0	2.4	3.7	3.4	3.9	5.1	9.9	149.8	379.1	427.2
85°	0.0	0.0	0.8	2.8	2.4	1.8	3.4	3.4	32.8	191.8	239.4
87.5°	0.0	0.0	0.0	0.2	1.2	0.8	1.4	0.4	0.2	14.3	58.0
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: P385720

CATALOG NUMBER: GAW-SA1B-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4
2.5°	1564.9	1579.9	1605.0	1616.9	1611.1	1586.4	1556.7	1526.5	1508.8	1515.8
5°	1661.2	1737.9	1782.2	1796.9	1772.4	1716.7	1644.1	1548.2	1514.2	1505.0
7.5°	1661.2	1805.5	1897.0	1913.1	1858.3	1749.4	1613.1	1463.5	1413.8	1395.7
10°	1602.8	1799.3	1926.8	1952.3	1875.8	1713.0	1530.4	1359.6	1300.6	1281.9
12.5°	1536.9	1748.6	1882.8	1918.1	1855.3	1676.7	1473.0	1289.3	1219.9	1203.6
15°	1496.5	1686.2	1797.3	1822.9	1796.3	1655.6	1459.3	1268.2	1186.5	1170.8
17.5°	1511.0	1637.8	1677.9	1692.8	1710.7	1648.1	1496.5	1314.5	1211.1	1196.1
20°	1565.6	1586.9	1566.2	1584.9	1633.2	1655.4	1585.3	1426.5	1302.2	1282.3
22.5°	1658.2	1560.5	1502.4	1509.8	1568.6	1679.4	1721.0	1586.4	1443.0	1418.0
25°	1766.1	1581.8	1467.0	1460.3	1520.7	1710.9	1845.1	1760.2	1609.5	1581.8
27.5°	1901.8	1629.8	1459.6	1453.1	1504.0	1740.5	1948.1	1932.2	1784.8	1737.7
30°	2006.5	1676.9	1481.2	1465.9	1520.7	1761.1	2030.9	2078.1	1924.5	1893.3
32.5°	2081.6	1732.4	1516.3	1494.1	1567.8	1796.5	2094.7	2211.9	2053.8	2006.5
35°	2138.8	1792.8	1572.8	1536.4	1632.6	1850.2	2154.5	2354.2	2191.3	2139.6
37.5°	2192.4	1877.7	1661.2	1617.7	1734.3	1936.8	2217.7	2515.7	2345.1	2283.3
40°	2267.0	1973.7	1797.5	1758.8	1905.2	2054.8	2296.6	2683.9	2520.1	2442.4
42.5°	2341.7	2076.7	1937.0	1947.5	2118.4	2198.2	2398.5	2862.0	2692.9	2609.9
45°	2409.9	2183.1	2135.7	2184.1	2316.4	2355.4	2499.7	2964.8	2830.8	2750.6
47.5°	2470.8	2316.0	2333.3	2461.9	2541.4	2497.8	2575.4	3053.6	2933.4	2862.8
50°	2541.4	2487.9	2593.6	2775.6	2800.5	2626.6	2644.3	3158.7	3053.4	2996.7
52.5°	2618.7	2669.1	2881.9	3042.3	3034.3	2766.5	2713.5	3276.5	3217.9	3164.5
55°	2706.5	2815.5	3135.8	3292.0	3285.2	2922.7	2828.3	3422.0	3424.1	3375.8
57.5°	2836.8	2941.5	3308.1	3494.0	3505.4	3103.2	3022.8	3585.1	3610.6	3578.3
59°	2930.3	3023.3	3376.4	3578.3	3625.0	3242.7	3165.0	3679.8	3663.1	3633.7
60°	2999.5	3075.2	3410.2	3622.4	3694.4	3337.3	3269.8	3735.3	3669.3	3633.7
62.5°	3170.8	3188.3	3471.2	3672.4	3774.4	3547.5	3565.0	3830.0	3626.1	3567.8
65°	3250.8	3259.8	3470.4	3582.9	3697.1	3711.2	3832.8	3832.8	3520.3	3430.9
67.5°	3217.3	3173.6	3298.2	3286.6	3400.5	3613.9	3933.4	3692.3	3318.2	3202.6
70°	2945.5	2777.4	2722.0	2727.1	2814.2	3143.4	3734.1	3278.7	2935.6	2800.5
72.5°	2450.9	2047.6	1910.8	2066.9	2089.7	2415.8	3182.3	2469.2	2164.9	2038.3
75°	1971.2	1443.4	1221.1	1385.8	1424.4	1767.9	2461.7	1537.8	1264.6	1165.9
77.5°	1416.1	1036.1	876.2	864.7	914.7	1121.3	1746.8	774.0	645.5	602.4
80°	804.5	681.9	734.2	692.8	718.0	701.1	829.9	339.4	278.1	259.9
82.5°	485.6	403.1	436.5	363.5	459.8	400.5	319.7	108.7	94.4	89.8
85°	315.9	220.3	114.8	76.9	158.5	255.9	71.5	29.6	22.7	18.1
87.5°	108.9	56.2	5.6	2.4	16.9	47.7	2.6	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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