

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: P386390

Luminaire Tested: GAW-SA2A-735-U-SLL-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2A-735-U-SLL-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6773 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

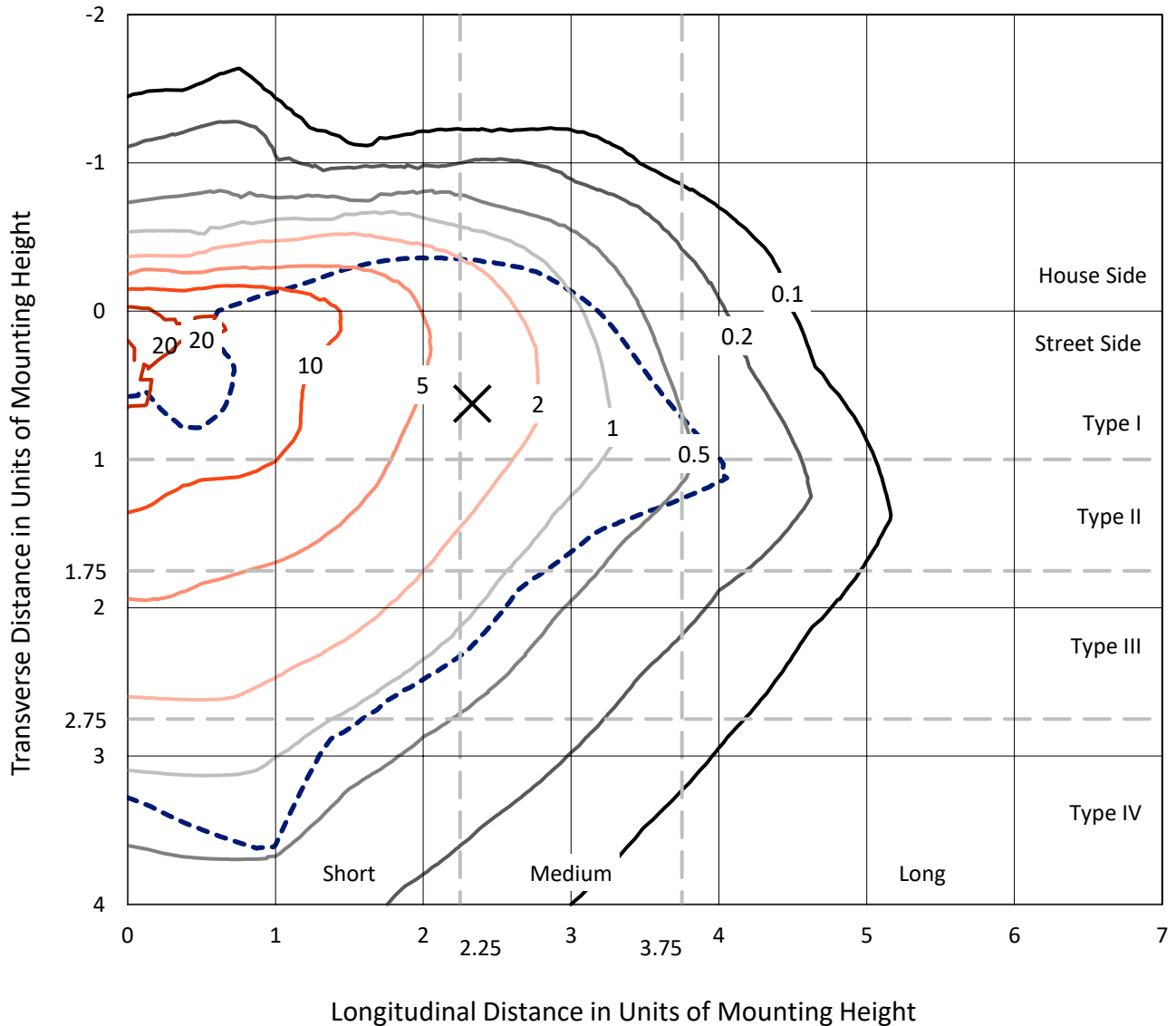
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P386390
 CATALOG NUMBER: GAW-SA2A-735-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

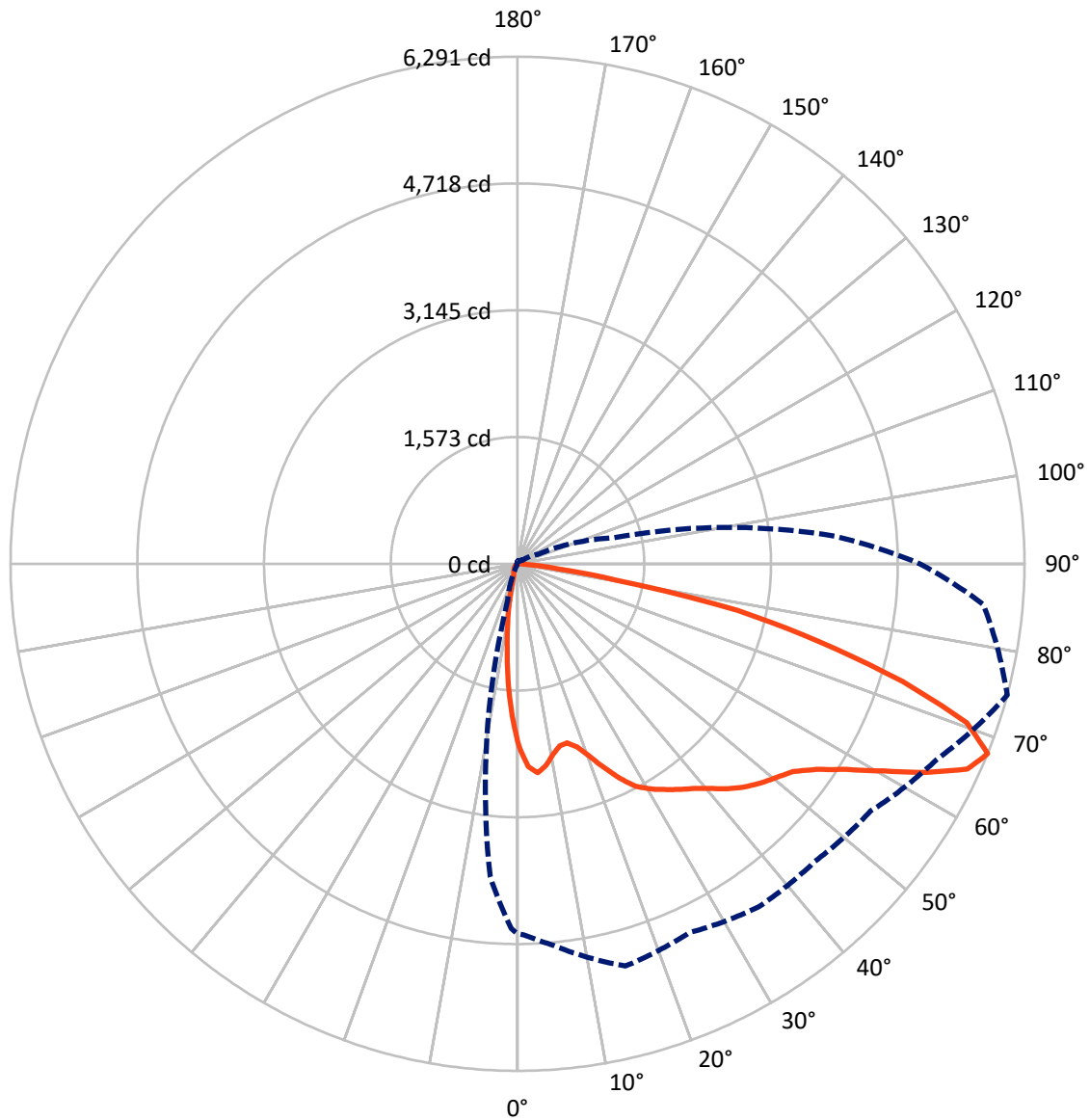
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P386390
CATALOG NUMBER: GAW-SA2A-735-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P386390
 CATALOG NUMBER: GAW-SA2A-735-U-SLL-HSS

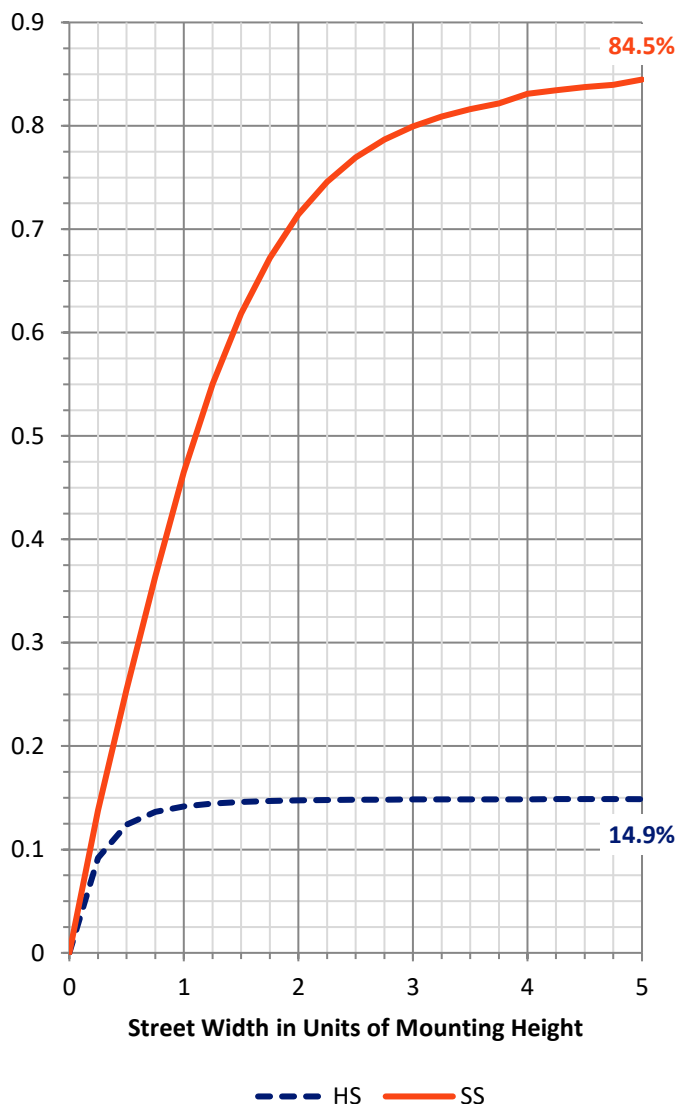
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1016.4	0.0	1016.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	5756.7	0.0	5756.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	6773.0	0.0	6773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	2.5
10°-20°	339.4	5.0
20°-30°	480.1	7.1
30°-40°	705.9	10.4
40°-50°	1014.6	15.0
50°-60°	1428.3	21.1
60°-70°	1668.2	24.6
70°-80°	851.0	12.6
80°-90°	113.1	1.7
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°	6773.0	100.0
0°-180°	6773.0	100.0

Coefficient of Utilization

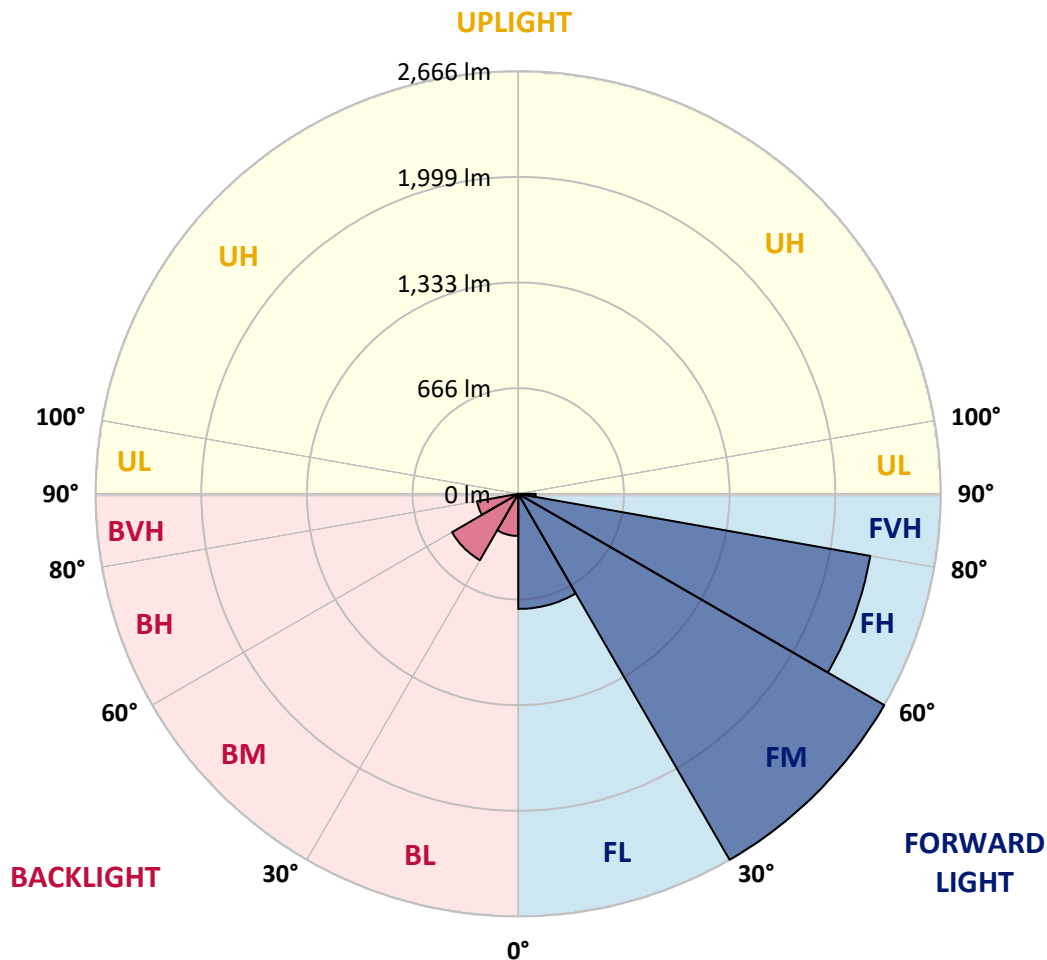


REPORT NUMBER: P386390
 CATALOG NUMBER: GAW-SA2A-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	726.1	10.7			
FM (30°-60°)	2665.7	39.4			
FH (60°-80°)	2255.2	33.3			G2/5000
FVH (80°-90°)	109.6	1.6			G2/225
BL (0°-30°)	265.8	3.9	B1/500		
BM (30°-60°)	483.1	7.1	B1/1000		
BH (60°-80°)	264.0	3.9	B1/500		G1/500
BVH (80°-90°)	3.4	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-G2
 Type III Medium





REPORT NUMBER: P386390

CATALOG NUMBER: GAW-SA2A-735-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2
2.5°	2463.2	2467.0	2486.9	2533.1	2583.4	2587.3	2621.3	2586.3	2574.5	2518.0	2459.6
5°	2481.8	2496.5	2564.8	2700.6	2818.3	2856.1	2883.1	2814.4	2742.3	2604.3	2457.1
7.5°	2332.0	2356.7	2464.1	2718.9	2929.3	3022.4	3040.1	2932.5	2755.7	2528.6	2307.2
10°	2140.0	2168.3	2297.9	2611.0	2900.1	3059.6	3083.9	2943.1	2689.0	2406.1	2145.2
12.5°	1984.8	2017.8	2150.3	2489.8	2799.7	2976.2	3024.3	2907.5	2631.2	2319.1	2034.4
15°	1913.2	1951.0	2090.3	2411.5	2688.4	2827.3	2867.1	2816.7	2599.2	2305.3	2008.8
17.5°	1954.3	1995.4	2139.1	2418.2	2583.8	2643.2	2675.2	2695.8	2599.2	2388.4	2083.9
20°	2122.7	2167.0	2319.1	2486.6	2497.2	2475.0	2509.3	2581.5	2629.4	2546.2	2264.2
22.5°	2355.6	2407.7	2579.3	2603.6	2454.8	2371.0	2375.5	2488.8	2684.2	2746.4	2514.5
25°	2639.6	2703.1	2877.6	2778.3	2472.5	2309.1	2307.5	2412.5	2737.8	2947.0	2793.3
27.5°	2921.6	2991.6	3144.9	2991.2	2545.3	2297.9	2294.7	2389.3	2790.1	3125.4	3097.7
30°	3158.1	3226.1	3358.3	3145.6	2623.9	2324.2	2308.8	2414.1	2821.2	3241.2	3319.8
32.5°	3350.6	3405.1	3512.0	3251.8	2708.0	2375.3	2341.8	2480.2	2874.2	3339.1	3523.9
35°	3562.4	3619.8	3662.5	3352.9	2802.3	2448.7	2400.9	2585.0	2955.6	3438.6	3747.5
37.5°	3804.0	3861.1	3855.9	3445.2	2922.0	2570.3	2539.8	2751.3	3082.3	3537.0	3997.1
40°	4040.4	4098.9	4057.1	3546.3	3062.5	2770.8	2748.4	3000.9	3252.1	3663.1	4289.7
42.5°	4261.8	4325.0	4235.8	3641.9	3229.9	3023.6	3062.1	3322.4	3464.5	3818.4	4541.9
45°	4440.2	4504.7	4385.7	3734.9	3406.4	3330.4	3446.3	3678.5	3719.9	3949.6	4712.3
47.5°	4569.8	4630.7	4489.6	3828.0	3632.3	3705.4	3907.3	4052.0	3950.6	4063.5	4833.3
50°	4652.6	4700.1	4520.1	3944.5	3928.7	4143.1	4387.5	4458.2	4167.8	4166.2	4980.2
52.5°	4705.2	4726.7	4542.5	4066.1	4238.1	4619.6	4858.0	4880.1	4391.4	4279.1	5178.1
55°	4886.5	4903.8	4701.7	4213.4	4493.8	5036.9	5283.3	5262.9	4644.6	4500.2	5411.8
57.5°	5195.8	5214.1	5030.5	4425.1	4700.7	5294.9	5591.7	5628.6	4941.4	4810.7	5662.0
60°	5351.1	5385.1	5319.6	4693.3	4901.3	5459.9	5801.9	5919.6	5312.3	5220.2	5904.6
62.5°	5210.3	5259.7	5354.6	4990.8	5100.5	5550.7	5867.4	6023.9	5692.2	5697.2	6054.0
65°	4929.2	4968.6	5129.7	5153.8	5216.0	5539.4	5705.6	5878.3	5924.8	6135.6	6046.0
67.5°	4589.7	4604.4	4741.1	5166.6	5048.5	5201.9	5219.8	5347.6	5740.9	6290.8	5803.1
70°	4101.0	4109.1	4228.4	4737.0	4338.5	4372.2	4345.5	4371.6	4935.6	5912.5	5190.1
72.5°	3300.6	3320.8	3490.5	3933.9	3160.7	3063.5	3272.7	3261.1	3801.1	4995.2	3854.6
75°	2430.1	2465.1	2721.4	3168.7	2218.4	2006.5	2159.3	2200.1	2702.2	3863.9	2410.5
77.5°	1701.4	1727.5	1975.7	2329.3	1605.5	1434.8	1379.6	1428.1	1783.6	2795.3	1214.4
80°	980.2	989.8	1148.3	1345.0	1081.9	1237.8	1121.4	1154.7	1068.7	1243.6	522.3
82.5°	641.4	643.0	704.9	800.6	673.7	782.9	579.4	740.8	657.4	499.6	170.0
85°	346.5	348.4	408.7	568.2	381.5	215.6	126.7	260.2	406.5	114.5	46.5
87.5°	38.1	34.9	123.2	206.7	105.9	19.5	6.8	29.2	65.1	7.4	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: P386390
 CATALOG NUMBER: GAW-SA2A-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2
2.5°	2429.7	2403.2	2336.7	2266.5	2210.0	2157.0	2103.8	2038.7	1988.3	1978.0	1961.4
5°	2377.8	2293.4	2154.1	2014.2	1901.6	1759.5	1669.4	1599.1	1530.5	1526.2	1512.4
7.5°	2196.2	2085.2	1889.1	1695.7	1537.1	1401.8	1265.1	1173.7	1101.8	1076.5	1061.3
10°	2021.7	1896.8	1652.0	1431.3	1289.8	1170.1	1073.9	978.3	891.7	831.9	805.0
12.5°	1899.7	1761.7	1491.9	1301.7	1200.3	1086.7	969.3	850.0	750.1	678.2	634.3
15°	1852.6	1705.3	1438.4	1250.3	1125.2	981.5	831.3	695.0	584.3	519.1	479.7
17.5°	1908.8	1737.4	1434.2	1187.8	1012.9	834.2	668.3	507.3	403.0	353.6	328.2
20°	2051.2	1839.4	1432.6	1111.1	879.5	659.6	452.7	333.7	270.5	242.9	231.0
22.5°	2252.7	1969.7	1445.4	1035.4	740.5	471.3	312.5	245.1	212.7	197.9	191.3
25°	2511.9	2152.5	1481.7	966.7	609.9	351.6	243.5	205.4	182.5	171.0	166.2
27.5°	2788.1	2363.0	1538.2	907.1	503.7	280.4	208.5	175.9	159.4	151.4	146.9
30°	3015.9	2606.9	1595.3	840.7	426.8	244.5	190.9	160.4	141.5	136.4	132.2
32.5°	3215.2	2791.4	1635.7	780.6	376.3	217.2	172.7	143.4	130.6	120.6	116.1
35°	3421.6	2945.1	1634.4	738.6	341.7	196.7	157.3	128.3	112.9	101.4	97.9
37.5°	3644.8	3118.6	1606.5	702.7	326.6	180.3	148.5	120.3	104.9	93.4	88.9
40°	3906.3	3300.8	1577.9	668.9	322.5	167.1	142.4	113.9	97.5	86.3	81.8
42.5°	4161.0	3465.1	1552.9	644.0	304.5	166.8	137.0	109.1	91.8	80.9	75.7
45°	4364.8	3618.2	1548.1	628.8	285.6	172.7	134.1	105.9	87.3	76.4	71.6
47.5°	4534.2	3784.3	1578.8	618.3	267.5	157.5	141.2	103.6	83.1	72.5	67.1
50°	4735.7	3988.5	1651.4	600.9	248.7	141.8	161.7	104.3	79.6	68.7	62.8
52.5°	5016.7	4270.8	1757.9	571.7	222.6	127.4	159.1	104.9	75.7	64.5	58.7
55°	5331.8	4623.4	1872.5	523.3	186.4	108.4	136.4	100.4	68.3	60.0	54.6
57.5°	5662.9	4943.3	1940.5	465.6	148.2	93.7	109.1	91.4	60.3	53.9	50.4
60°	5714.9	5064.9	1909.3	394.6	117.7	81.5	80.9	93.0	53.9	47.4	44.9
62.5°	5585.6	4912.2	1758.9	331.4	98.5	71.6	66.4	81.2	48.8	42.4	39.8
65°	5337.0	4499.2	1515.1	298.7	91.4	61.2	55.1	57.1	42.6	36.9	34.7
67.5°	4991.1	3948.0	1243.9	280.1	90.5	52.6	47.2	43.3	36.9	32.1	30.2
70°	4283.9	3289.0	992.4	269.8	87.9	44.2	39.8	35.3	30.8	27.2	25.6
72.5°	3153.0	2330.6	772.0	258.6	88.6	35.3	34.7	29.2	24.7	21.1	20.6
75°	1821.8	1331.5	506.3	209.5	84.4	27.2	28.8	20.6	17.3	14.7	14.7
77.5°	970.9	812.1	192.9	87.3	30.8	17.3	16.3	12.2	10.9	9.0	8.6
80°	423.2	357.4	58.1	24.4	17.0	9.3	6.1	5.4	4.8	3.9	3.6
82.5°	149.8	129.3	19.0	11.8	7.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.0	24.4	0.0	2.9	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: P386390
 CATALOG NUMBER: GAW-SA2A-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2
2.5°	1927.4	1920.3	1878.6	1880.2	1887.5	1898.1	1873.1	1884.6	1915.8	1945.6	1956.9
5°	1490.3	1491.9	1466.6	1482.3	1496.5	1506.0	1465.6	1466.3	1491.0	1524.6	1542.3
7.5°	1050.1	1047.5	1048.8	1086.4	1113.0	1093.7	1108.9	1056.5	1059.7	1083.8	1065.8
10°	780.6	745.3	725.4	753.7	782.9	772.3	746.3	729.3	741.2	767.8	765.9
12.5°	613.4	562.8	532.9	512.7	536.8	516.9	516.2	501.4	485.5	488.3	531.0
15°	461.3	424.5	389.2	356.8	356.1	349.4	315.1	276.6	273.4	275.2	297.4
17.5°	317.3	304.8	290.4	262.5	255.0	226.9	193.5	178.1	170.4	173.9	181.3
20°	223.0	218.2	219.8	204.7	194.1	167.1	147.6	141.5	140.3	143.7	147.3
22.5°	184.8	176.1	175.2	168.4	157.8	138.3	127.7	124.2	122.6	125.8	128.3
25°	161.7	153.0	149.6	145.3	134.1	120.6	114.2	111.0	109.4	111.3	112.9
27.5°	142.4	134.4	131.2	128.3	117.4	107.8	102.7	99.8	98.5	99.1	100.7
30°	128.0	121.0	116.8	113.3	104.0	97.2	92.7	89.8	88.6	88.6	90.2
32.5°	112.9	109.1	105.2	100.7	92.1	87.6	83.1	79.8	78.6	78.9	80.2
35°	94.0	92.7	93.7	89.5	82.1	78.3	73.8	70.3	69.3	69.6	70.9
37.5°	83.4	77.7	81.2	78.9	74.8	69.6	63.9	60.7	59.0	60.0	60.7
40°	76.7	69.6	67.1	69.3	68.7	60.3	55.1	51.9	50.7	51.0	51.7
42.5°	70.9	62.6	56.8	56.5	60.3	52.6	47.2	44.2	42.6	42.6	43.3
45°	65.5	56.5	49.4	44.0	50.7	44.6	39.5	36.9	34.9	34.9	35.3
47.5°	61.2	51.3	43.0	36.0	38.1	36.5	32.4	29.9	27.9	27.9	28.3
50°	57.4	46.2	37.2	30.2	28.6	30.2	26.3	23.4	22.2	21.8	22.5
52.5°	53.3	41.1	31.8	25.6	22.5	22.7	20.6	18.6	17.0	17.0	17.7
55°	49.1	36.9	27.6	21.8	18.6	17.0	16.3	15.1	13.8	13.8	14.5
57.5°	44.9	32.4	23.4	17.9	14.7	13.4	13.4	12.5	11.6	11.6	12.2
60°	41.1	27.9	19.3	14.7	11.6	11.3	11.6	10.6	10.0	10.0	10.6
62.5°	36.5	23.8	15.7	12.2	9.3	9.0	10.0	9.3	8.6	8.6	9.3
65°	31.1	20.2	12.5	9.3	7.0	7.0	8.4	7.7	7.0	7.0	7.7
67.5°	26.3	17.0	9.6	6.8	5.2	5.4	7.0	6.4	6.1	6.1	6.8
70°	21.8	13.2	6.8	4.1	2.9	4.1	5.4	5.4	5.4	5.4	6.1
72.5°	16.3	9.0	3.9	1.6	1.3	2.9	4.5	5.2	4.8	4.8	5.7
75°	10.6	5.2	1.3	0.0	0.0	1.6	3.6	4.1	4.1	3.9	4.8
77.5°	6.1	1.6	0.0	0.0	0.0	0.0	2.3	1.9	1.6	1.3	2.3
80°	1.6	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



REPORT NUMBER: P386390
 CATALOG NUMBER: GAW-SA2A-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2
2.5°	2002.0	2040.0	2093.2	2149.7	2236.6	2305.6	2373.3	2431.3	2453.8	2463.2
5°	1584.7	1640.2	1718.2	1818.2	1975.2	2116.3	2259.4	2403.4	2466.0	2481.8
7.5°	1137.0	1208.0	1307.2	1432.6	1616.4	1799.3	1999.2	2210.7	2307.5	2332.0
10°	841.6	928.2	1041.8	1174.0	1349.4	1537.5	1755.4	1997.0	2107.6	2140.0
12.5°	597.1	714.2	866.3	1027.0	1179.1	1346.9	1567.4	1833.6	1949.8	1984.8
15°	350.7	464.0	644.0	859.3	1054.0	1224.0	1448.0	1749.9	1877.9	1913.2
17.5°	201.1	257.7	393.7	633.7	898.1	1133.6	1410.4	1770.8	1921.5	1954.3
20°	153.7	171.6	226.9	408.1	715.8	1044.7	1410.4	1888.8	2074.6	2122.7
22.5°	134.4	147.6	170.0	243.5	526.8	949.4	1426.8	2059.5	2302.4	2355.6
25°	119.4	131.2	150.5	183.2	359.3	836.2	1465.6	2269.0	2570.7	2639.6
27.5°	106.8	118.1	135.4	160.4	245.7	699.5	1518.0	2514.8	2866.5	2921.6
30°	95.6	106.2	121.9	139.6	189.7	544.5	1562.5	2746.4	3098.8	3158.1
32.5°	85.0	94.7	108.8	121.9	155.3	402.6	1567.4	2930.0	3291.5	3350.6
35°	75.1	83.7	96.6	106.8	128.7	318.0	1492.6	3089.1	3484.4	3562.4
37.5°	65.5	73.8	85.0	92.7	113.3	259.3	1378.4	3266.6	3731.7	3804.0
40°	56.5	63.9	75.4	80.5	107.2	199.2	1254.2	3452.6	3974.3	4040.4
42.5°	48.1	55.1	66.4	76.4	94.0	148.9	1120.0	3627.2	4192.5	4261.8
45°	40.1	47.4	58.7	80.9	78.0	111.3	976.7	3743.0	4364.8	4440.2
47.5°	32.4	40.8	56.2	77.0	62.3	81.8	863.1	3852.7	4495.4	4569.8
50°	26.0	34.3	63.2	68.7	51.0	62.6	815.6	3950.9	4581.0	4652.6
52.5°	21.1	28.8	59.7	52.6	42.6	51.7	841.2	4110.0	4660.3	4705.2
55°	17.7	22.7	36.0	36.5	36.3	44.0	873.0	4338.5	4865.3	4886.5
57.5°	15.4	18.3	25.0	28.3	30.4	39.2	873.6	4666.4	5182.6	5195.8
60°	13.2	16.1	20.9	22.7	26.3	34.9	841.9	4781.0	5307.5	5351.1
62.5°	11.6	14.1	17.3	19.0	22.2	31.5	767.5	4615.1	5136.1	5210.3
65°	10.2	12.9	14.5	16.1	19.5	28.3	644.9	4283.3	4851.9	4929.2
67.5°	9.0	11.3	12.9	14.5	17.7	25.0	474.9	3897.9	4525.5	4589.7
70°	8.0	10.0	11.6	12.9	15.4	21.1	288.1	3307.6	4074.4	4101.0
72.5°	7.7	9.0	10.6	11.6	13.4	18.6	146.0	2430.8	3257.3	3300.6
75°	6.8	8.0	9.6	10.2	11.8	16.1	59.4	1596.5	2360.5	2430.1
77.5°	5.4	7.4	8.6	9.3	10.2	13.2	30.2	1020.3	1656.5	1701.4
80°	1.9	5.4	7.4	7.7	8.6	9.6	19.9	558.6	960.9	980.2
82.5°	0.0	3.6	5.7	5.4	6.1	7.4	12.9	265.7	634.3	641.4
85°	0.0	1.6	4.5	3.6	2.5	5.2	4.5	58.1	332.7	346.5
87.5°	0.0	0.0	0.3	1.6	1.3	1.9	0.7	0.3	30.2	38.1
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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