

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: P386838

Luminaire Tested: GAW-SA2C-735-U-SLL-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386838
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-SA2C-735-U-SLL-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 1050mA 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: 10278.9 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

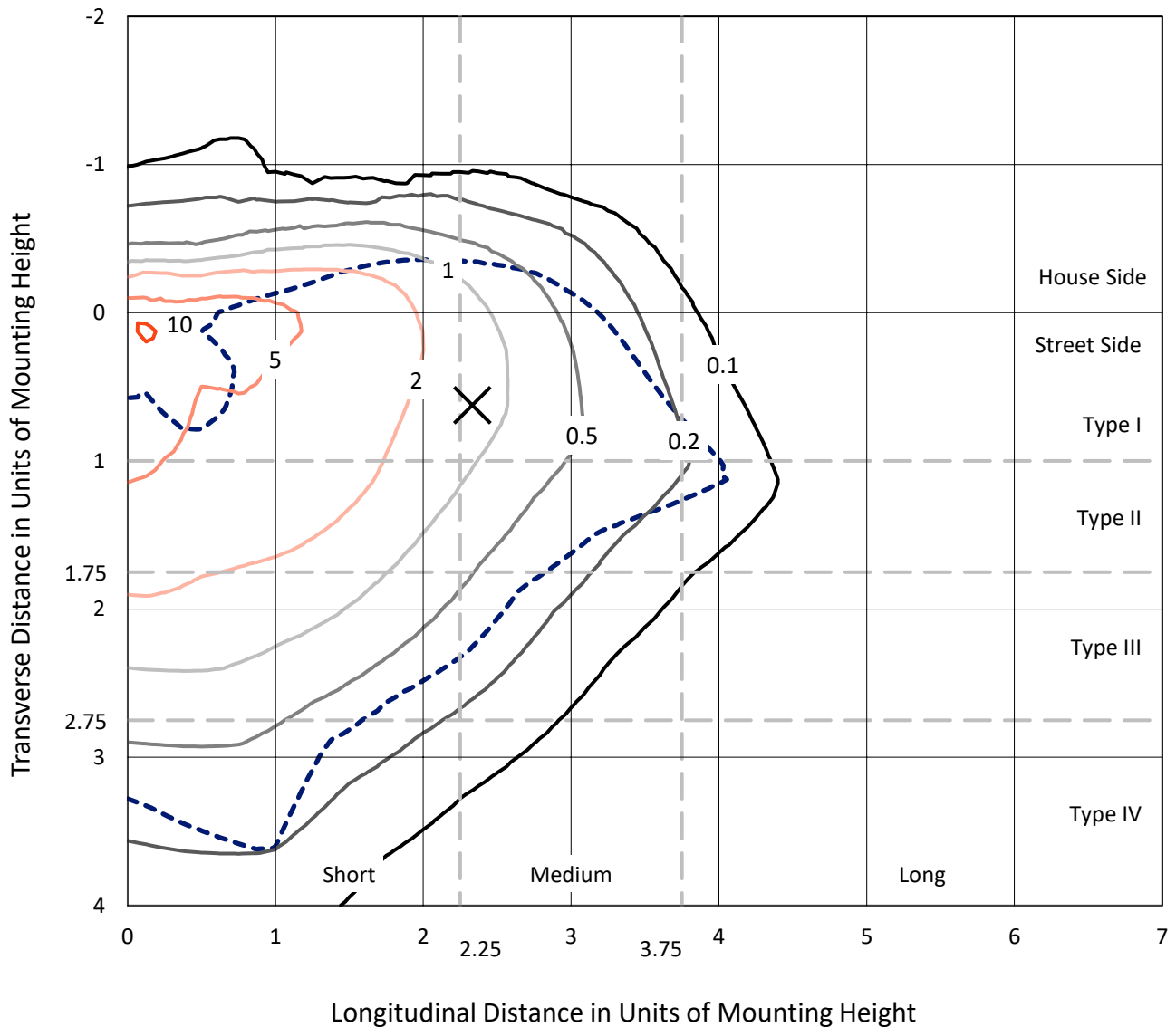
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

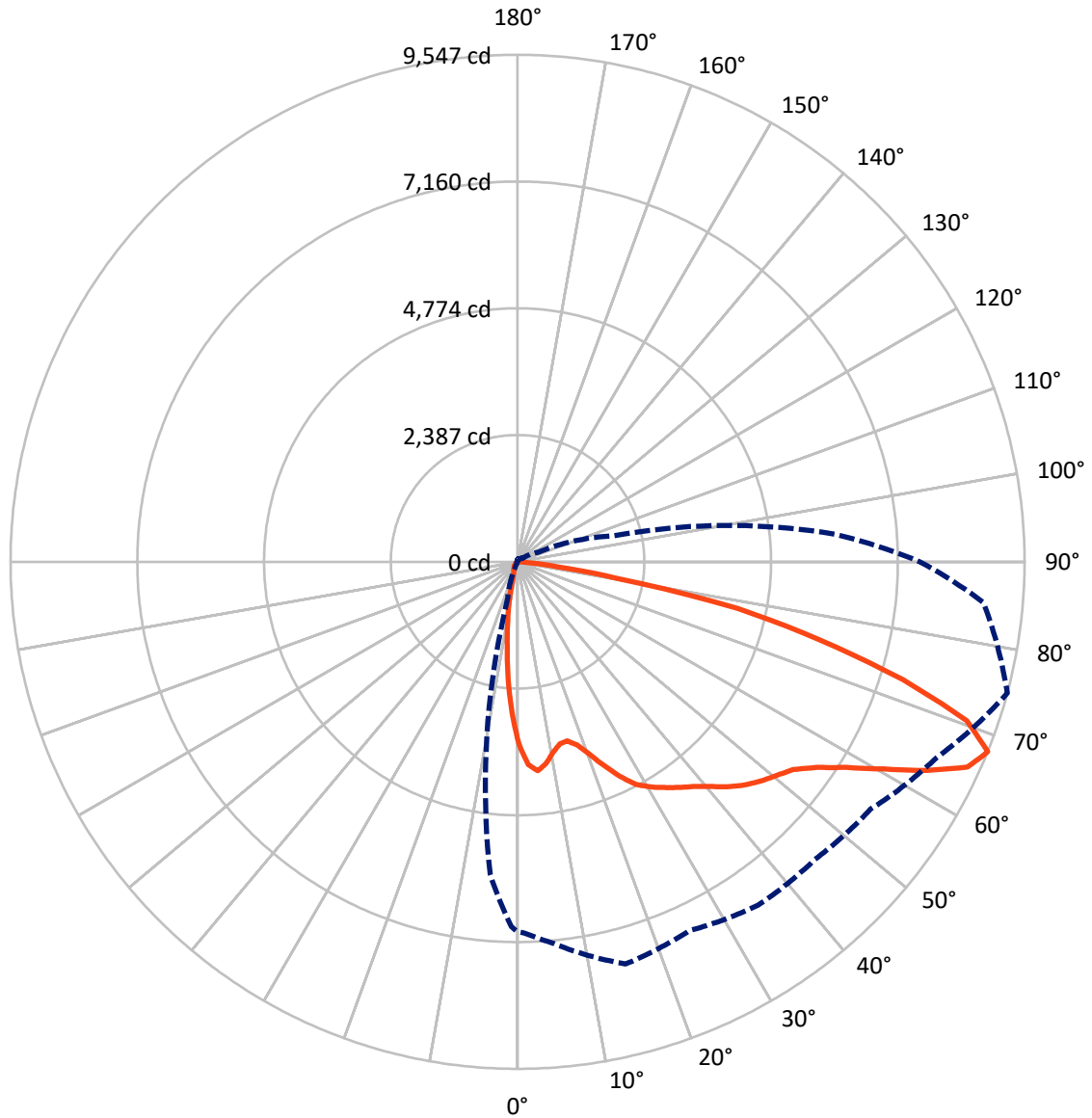
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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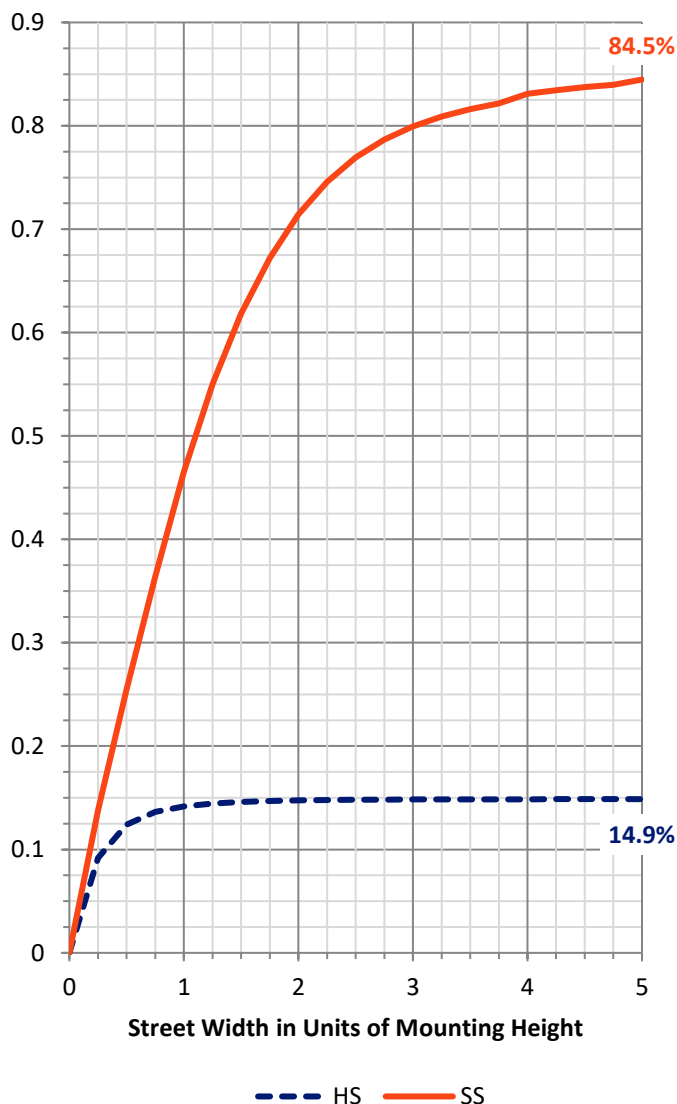
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1542.5	0.0	1542.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	8736.4	0.0	8736.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	10278.9	0.0	10278.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.6	2.5
10°-20°	515.0	5.0
20°-30°	728.6	7.1
30°-40°	1071.3	10.4
40°-50°	1539.8	15.0
50°-60°	2167.7	21.1
60°-70°	2531.6	24.6
70°-80°	1291.6	12.6
80°-90°	171.6	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°	10278.9	100.0
0°-180°	10278.9	100.0

Coefficient of Utilization



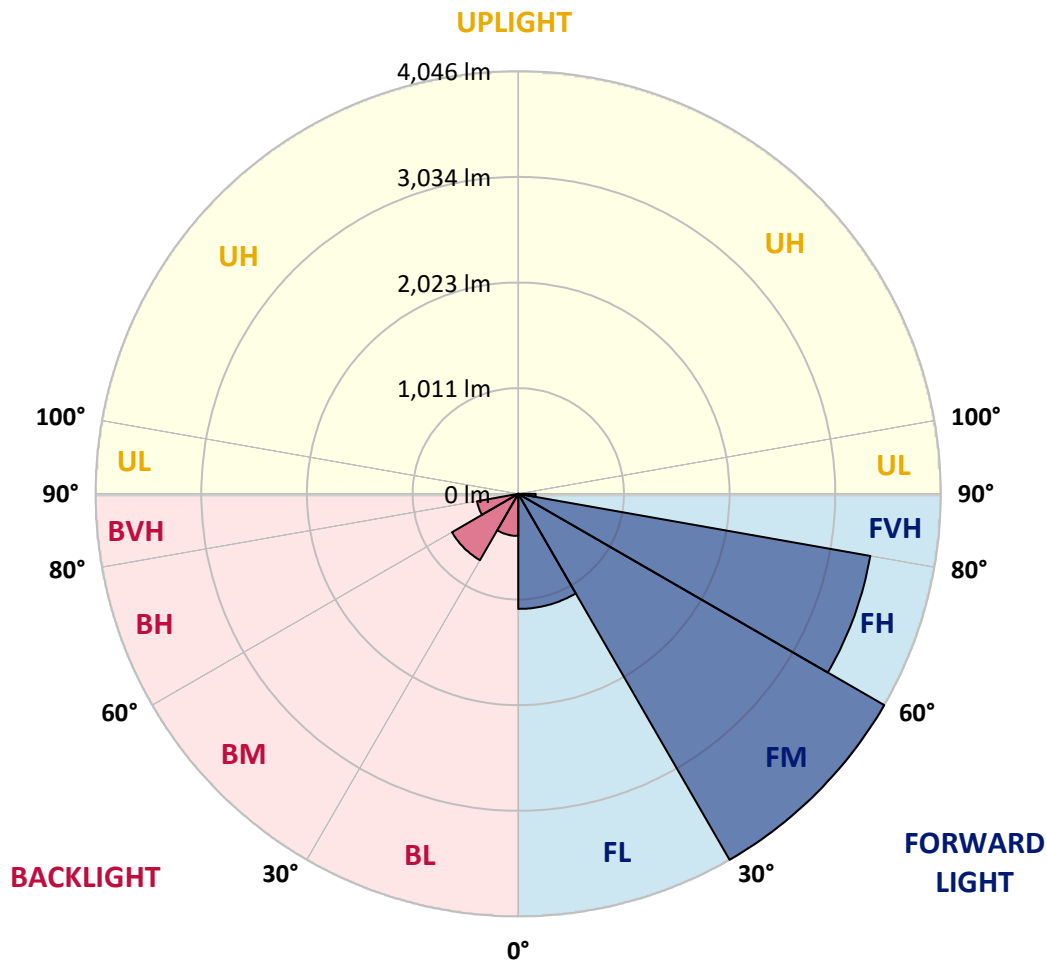
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1101.9	10.7			
FM (30°-60°)	4045.6	39.4			
FH (60°-80°)	3422.6	33.3			G2/5000
FVH (80°-90°)	166.4	1.6			G2/225
BL (0°-30°)	403.4	3.9	B1/500		
BM (30°-60°)	733.2	7.1	B1/1000		
BH (60°-80°)	400.6	3.9	B1/500		G1/500
BVH (80°-90°)	5.2	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4
2.5°	3738.1	3744.0	3774.1	3844.3	3920.7	3926.6	3978.1	3925.1	3907.0	3821.4	3732.8
5°	3766.3	3788.8	3892.5	4098.4	4277.2	4334.6	4375.5	4271.2	4161.7	3952.3	3728.8
7.5°	3539.0	3576.5	3739.5	4126.2	4445.6	4586.8	4613.6	4450.5	4182.2	3837.4	3501.5
10°	3247.8	3290.6	3487.3	3962.6	4401.2	4643.2	4680.2	4466.5	4080.9	3651.4	3255.6
12.5°	3012.1	3062.2	3263.4	3778.5	4248.9	4516.7	4589.7	4412.5	3993.3	3519.4	3087.6
15°	2903.5	2961.0	3172.3	3659.7	4079.9	4290.8	4351.1	4274.7	3944.5	3498.5	3048.6
17.5°	2965.9	3028.1	3246.3	3669.9	3921.2	4011.3	4060.0	4091.2	3944.5	3624.7	3162.6
20°	3221.5	3288.6	3519.4	3773.6	3789.7	3756.1	3808.2	3917.7	3990.4	3864.2	3436.2
22.5°	3575.0	3653.9	3914.4	3951.4	3725.4	3598.3	3605.2	3777.0	4073.6	4168.1	3816.0
25°	4005.9	4102.3	4367.2	4216.3	3752.2	3504.4	3502.0	3661.2	4154.9	4472.4	4239.1
27.5°	4433.9	4540.1	4772.8	4539.5	3862.8	3487.3	3482.4	3626.1	4234.2	4743.1	4701.2
30°	4792.8	4896.0	5096.6	4773.8	3982.0	3527.2	3503.8	3663.6	4281.5	4918.9	5038.2
32.5°	5084.9	5167.7	5329.8	4934.9	4109.7	3604.6	3554.0	3763.9	4361.9	5067.4	5347.9
35°	5406.3	5493.5	5558.2	5088.3	4252.7	3716.1	3643.6	3923.1	4485.5	5218.3	5687.3
37.5°	5773.0	5859.7	5851.9	5228.6	4434.4	3900.7	3854.4	4175.3	4677.9	5367.8	6066.0
40°	6131.8	6220.4	6157.2	5382.0	4647.7	4205.0	4171.0	4554.2	4935.5	5559.1	6510.1
42.5°	6467.8	6563.7	6428.4	5527.0	4901.9	4588.8	4647.2	5042.1	5257.8	5794.8	6892.9
45°	6738.5	6836.3	6655.7	5668.2	5169.7	5054.2	5230.0	5582.5	5645.4	5994.0	7151.4
47.5°	6935.3	7027.7	6813.5	5809.5	5512.5	5623.5	5929.7	6149.4	5995.5	6166.8	7335.0
50°	7060.9	7132.9	6859.7	5986.2	5962.3	6287.6	6658.6	6765.8	6325.1	6322.7	7558.0
52.5°	7140.7	7173.3	6893.8	6170.8	6431.7	7010.7	7372.5	7406.1	6664.5	6494.0	7858.4
55°	7415.9	7442.1	7135.4	6394.3	6819.8	7644.2	8018.1	7987.0	7048.6	6829.6	8212.9
57.5°	7885.2	7913.0	7634.5	6715.6	7133.9	8035.7	8486.1	8542.1	7499.1	7300.9	8592.7
60°	8120.9	8172.4	8073.2	7122.7	7438.2	8285.9	8805.0	8983.7	8062.0	7922.2	8960.8
62.5°	7907.2	7982.1	8126.2	7574.1	7740.6	8423.7	8904.3	9142.0	8638.5	8646.3	9187.7
65°	7480.6	7540.4	7784.9	7821.4	7915.9	8406.7	8659.0	8920.9	8991.5	9311.4	9175.5
67.5°	6965.4	6987.8	7195.2	7840.9	7661.7	7894.5	7921.7	8115.5	8712.5	9547.1	8806.9
70°	6223.9	6236.0	6417.1	7188.9	6584.1	6635.3	6594.8	6634.3	7490.4	8973.0	7876.4
72.5°	5008.9	5039.7	5297.2	5970.1	4796.6	4649.2	4966.6	4949.1	5768.5	7580.9	5849.9
75°	3688.0	3741.0	4130.0	4808.9	3366.6	3045.2	3277.0	3338.8	4100.8	5864.0	3658.3
77.5°	2582.1	2621.6	2998.5	3535.0	2436.6	2177.5	2093.7	2167.3	2706.8	4242.0	1843.0
80°	1487.5	1502.2	1742.7	2041.2	1641.9	1878.5	1701.8	1752.4	1622.0	1887.3	792.8
82.5°	973.4	975.7	1069.8	1214.8	1022.5	1188.1	879.4	1124.3	997.7	758.1	258.1
85°	525.9	528.8	620.4	862.4	578.9	327.2	192.3	394.9	616.9	173.8	70.6
87.5°	58.0	53.1	186.9	313.6	160.7	29.7	10.2	44.3	98.8	11.2	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°	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4
2.5°	3687.5	3647.0	3546.2	3439.6	3353.9	3273.6	3192.7	3093.9	3017.4	3001.8	2976.6
5°	3608.6	3480.5	3269.2	3056.9	2886.0	2670.3	2533.5	2426.8	2322.7	2316.3	2295.3
7.5°	3333.0	3164.5	2867.0	2573.4	2332.8	2127.4	1919.9	1781.2	1672.1	1633.6	1610.8
10°	3068.1	2878.7	2507.1	2172.2	1957.4	1775.8	1629.8	1484.6	1353.2	1262.5	1221.7
12.5°	2883.1	2673.7	2264.2	1975.5	1821.6	1649.2	1471.0	1289.9	1138.5	1029.4	962.6
15°	2811.5	2588.0	2182.9	1897.6	1707.6	1489.5	1261.6	1054.7	886.7	787.9	727.9
17.5°	2896.7	2636.7	2176.6	1802.6	1537.2	1266.0	1014.3	769.8	611.5	536.6	498.2
20°	3112.9	2791.5	2174.1	1686.2	1334.7	1001.1	687.1	506.4	410.5	368.6	350.6
22.5°	3418.6	2989.2	2193.6	1571.3	1123.8	715.3	474.3	372.0	322.9	300.4	290.2
25°	3812.2	3266.7	2248.6	1467.1	925.7	533.7	369.6	311.6	277.0	259.6	252.2
27.5°	4231.3	3586.1	2334.3	1376.5	764.5	425.5	316.5	266.8	242.0	229.9	223.0
30°	4577.1	3956.3	2421.0	1275.7	647.6	371.1	289.7	243.5	214.7	206.9	200.7
32.5°	4879.4	4236.2	2482.3	1184.7	571.2	329.6	262.0	217.7	198.2	183.1	176.2
35°	5192.5	4469.4	2480.4	1120.9	518.5	298.4	238.6	194.7	171.4	153.9	148.5
37.5°	5531.4	4732.9	2438.0	1066.4	495.7	273.6	225.5	182.6	159.2	141.7	134.9
40°	5928.2	5009.4	2394.7	1015.2	489.3	253.7	216.2	172.8	148.0	131.0	124.2
42.5°	6314.9	5258.7	2356.7	977.3	462.1	253.2	207.9	165.5	139.2	122.7	114.9
45°	6624.0	5491.0	2349.4	954.3	433.3	262.0	203.6	160.7	132.5	115.9	108.6
47.5°	6881.2	5743.3	2396.1	938.3	406.1	239.1	214.3	157.3	126.1	110.0	101.7
50°	7186.9	6052.9	2506.2	912.0	377.4	215.2	245.4	158.3	120.7	104.2	95.4
52.5°	7613.5	6481.4	2667.9	867.7	337.9	193.3	241.5	159.2	114.9	97.9	89.1
55°	8091.7	7016.5	2841.7	794.2	282.9	164.6	206.9	152.4	103.7	91.0	82.8
57.5°	8594.1	7502.0	2944.9	706.5	225.0	142.2	165.5	138.7	91.5	81.8	76.5
60°	8673.0	7686.5	2897.7	599.0	178.7	123.7	122.7	141.2	81.8	72.1	68.2
62.5°	8476.8	7454.7	2669.3	503.0	149.5	108.6	100.8	123.2	74.0	64.3	60.4
65°	8099.5	6828.1	2299.3	453.4	138.7	93.0	83.8	86.7	64.7	56.0	52.6
67.5°	7574.5	5991.5	1887.8	425.1	137.3	79.8	71.6	65.8	56.0	48.7	45.7
70°	6501.4	4991.5	1506.0	409.5	133.4	67.2	60.4	53.5	46.8	41.4	39.0
72.5°	4785.0	3537.0	1171.5	392.5	134.4	53.5	52.6	44.3	37.5	32.1	31.2
75°	2764.7	2020.7	768.3	318.0	128.0	41.4	43.9	31.2	26.3	22.4	22.4
77.5°	1473.4	1232.4	292.6	132.5	46.8	26.3	24.8	18.5	16.5	13.6	13.2
80°	642.3	542.4	88.1	37.0	25.8	14.1	9.2	8.3	7.3	5.8	5.4
82.5°	227.4	196.2	28.7	18.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	51.6	37.0	0.0	4.4	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°	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4
2.5°	2924.9	2914.2	2851.0	2853.3	2864.6	2880.7	2842.6	2860.2	2907.4	2952.7	2969.7
5°	2261.8	2264.2	2225.7	2249.6	2271.0	2285.6	2224.3	2225.2	2262.7	2313.8	2340.6
7.5°	1593.7	1589.8	1591.7	1648.7	1689.1	1659.9	1682.8	1603.5	1608.3	1644.8	1617.5
10°	1184.7	1131.1	1101.0	1143.8	1188.1	1172.0	1132.5	1106.8	1124.8	1165.2	1162.3
12.5°	931.0	854.1	808.8	778.1	814.6	784.4	783.5	761.1	736.7	741.1	805.8
15°	700.2	644.2	590.6	541.5	540.5	530.3	478.2	419.7	414.8	417.7	451.4
17.5°	481.5	462.6	440.7	398.3	387.1	344.3	293.7	270.3	258.5	263.9	275.1
20°	338.4	331.1	333.6	310.7	294.6	253.7	224.0	214.7	212.8	218.1	223.5
22.5°	280.5	267.4	265.8	255.6	239.5	209.9	193.8	188.4	186.0	190.9	194.7
25°	245.4	232.2	226.9	220.6	203.6	183.1	173.3	168.4	166.1	169.0	171.4
27.5°	216.2	204.0	199.2	194.7	178.2	163.6	155.8	151.4	149.5	150.5	152.9
30°	194.3	183.6	177.3	171.9	157.7	147.6	140.7	136.3	134.4	134.4	136.9
32.5°	171.4	165.5	159.7	152.9	139.8	132.9	126.1	121.3	119.3	119.8	121.7
35°	142.7	140.7	142.2	135.8	124.7	118.8	112.0	106.6	105.2	105.7	107.7
37.5°	126.6	117.8	123.2	119.8	113.5	105.7	96.9	92.1	89.6	91.0	92.1
40°	116.4	105.7	101.7	105.2	104.2	91.5	83.8	78.9	76.9	77.4	78.4
42.5°	107.7	95.0	86.1	85.7	91.5	79.8	71.6	67.2	64.7	64.7	65.8
45°	99.3	85.7	75.0	66.7	76.9	67.6	59.9	56.0	53.1	53.1	53.5
47.5°	93.0	77.9	65.3	54.6	58.0	55.5	49.2	45.3	42.4	42.4	42.8
50°	87.2	70.1	56.5	45.7	43.3	45.7	39.9	35.5	33.6	33.1	34.1
52.5°	80.8	62.3	48.2	39.0	34.1	34.6	31.2	28.3	25.8	25.8	26.8
55°	74.5	56.0	41.9	33.1	28.3	25.8	24.8	22.9	20.9	20.9	21.9
57.5°	68.2	49.2	35.5	27.2	22.4	20.5	20.5	19.0	17.6	17.6	18.5
60°	62.3	42.4	29.2	22.4	17.6	17.0	17.6	16.1	15.1	15.1	16.1
62.5°	55.5	36.1	23.9	18.5	14.1	13.6	15.1	14.1	13.2	13.2	14.1
65°	47.3	30.7	19.0	14.1	10.7	10.7	12.7	11.6	10.7	10.7	11.6
67.5°	39.9	25.8	14.7	10.2	7.8	8.3	10.7	9.8	9.2	9.2	10.2
70°	33.1	20.0	10.2	6.3	4.4	6.3	8.3	8.3	8.3	8.3	9.2
72.5°	24.8	13.6	5.8	2.4	2.0	4.4	6.9	7.8	7.3	7.3	8.7
75°	16.1	7.8	2.0	0.0	0.0	2.4	5.4	6.3	6.3	5.8	7.3
77.5°	9.2	2.4	0.0	0.0	0.0	0.0	3.4	2.9	2.4	2.0	3.4
80°	2.4	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: GAW-SA2C-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4
2.5°	3038.4	3095.9	3176.7	3262.3	3394.3	3499.1	3601.7	3689.8	3723.9	3738.1
5°	2404.9	2489.1	2607.5	2759.4	2997.5	3211.7	3428.9	3647.6	3742.5	3766.3
7.5°	1725.7	1833.2	1983.7	2174.1	2453.1	2730.6	3034.1	3354.9	3502.0	3539.0
10°	1277.2	1408.6	1581.0	1781.7	2048.0	2333.4	2663.9	3030.6	3198.5	3247.8
12.5°	906.1	1083.9	1314.7	1558.6	1789.5	2044.1	2378.6	2782.8	2959.0	3012.1
15°	532.2	704.1	977.3	1304.0	1599.5	1857.7	2197.4	2655.7	2849.9	2903.5
17.5°	305.3	391.0	597.5	961.7	1362.9	1720.3	2140.5	2687.3	2916.2	2965.9
20°	233.3	260.5	344.3	619.3	1086.3	1585.4	2140.5	2866.5	3148.5	3221.5
22.5°	204.0	224.0	258.1	369.6	799.5	1440.8	2165.3	3125.6	3494.2	3575.0
25°	181.1	199.2	228.4	278.1	545.3	1268.9	2224.3	3443.5	3901.2	4005.9
27.5°	162.1	179.1	205.4	243.5	372.9	1061.5	2303.6	3816.5	4350.1	4433.9
30°	145.1	161.2	185.1	211.8	287.7	826.3	2371.3	4168.1	4702.7	4792.8
32.5°	129.1	143.6	165.1	185.1	235.7	611.1	2378.6	4446.5	4995.3	5084.9
35°	113.9	127.1	146.5	162.1	195.3	482.6	2265.2	4688.0	5287.9	5406.3
37.5°	99.3	112.0	129.1	140.7	171.9	393.4	2091.8	4957.4	5663.4	5773.0
40°	85.7	96.9	114.4	122.2	162.6	302.4	1903.4	5239.8	6031.5	6131.8
42.5°	73.1	83.8	100.8	115.9	142.7	225.9	1699.8	5504.7	6362.6	6467.8
45°	60.9	72.1	89.1	122.7	118.4	169.0	1482.2	5680.4	6624.0	6738.5
47.5°	49.2	61.8	85.2	116.9	94.5	124.2	1309.8	5847.0	6822.3	6935.3
50°	39.5	52.1	95.9	104.2	77.4	95.0	1237.7	5996.0	6952.3	7060.9
52.5°	32.1	43.9	90.6	79.8	64.7	78.4	1276.7	6237.5	7072.5	7140.7
55°	26.8	34.6	54.6	55.5	55.0	66.7	1324.9	6584.1	7383.6	7415.9
57.5°	23.4	27.7	38.0	42.8	46.2	59.4	1325.9	7081.8	7865.3	7885.2
60°	20.0	24.3	31.7	34.6	39.9	53.1	1277.7	7255.6	8054.6	8120.9
62.5°	17.6	21.4	26.3	28.7	33.6	47.7	1164.8	7003.8	7794.6	7907.2
65°	15.6	19.4	21.9	24.3	29.7	42.8	978.8	6500.4	7363.3	7480.6
67.5°	13.6	17.0	19.4	21.9	26.8	38.0	720.6	5915.6	6868.0	6965.4
70°	12.2	15.1	17.6	19.4	23.4	32.1	437.3	5019.7	6183.4	6223.9
72.5°	11.6	13.6	16.1	17.6	20.5	28.3	221.5	3688.9	4943.2	5008.9
75°	10.2	12.2	14.7	15.6	18.0	24.3	90.1	2422.9	3582.3	3688.0
77.5°	8.3	11.2	13.2	14.1	15.6	20.0	45.7	1548.4	2514.0	2582.1
80°	2.9	8.3	11.2	11.6	13.2	14.7	30.2	847.7	1458.3	1487.5
82.5°	0.0	5.4	8.7	8.3	9.2	11.2	19.4	403.2	962.6	973.4
85°	0.0	2.4	6.9	5.4	3.9	7.8	6.9	88.1	504.9	525.9
87.5°	0.0	0.0	0.5	2.4	2.0	2.9	0.9	0.5	45.7	58.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)