

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: P387062

Luminaire Tested: GAW-SA2D-735-U-SLL-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387062
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-SA2D-735-U-SLL-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 1200mA 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: 11277.4 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

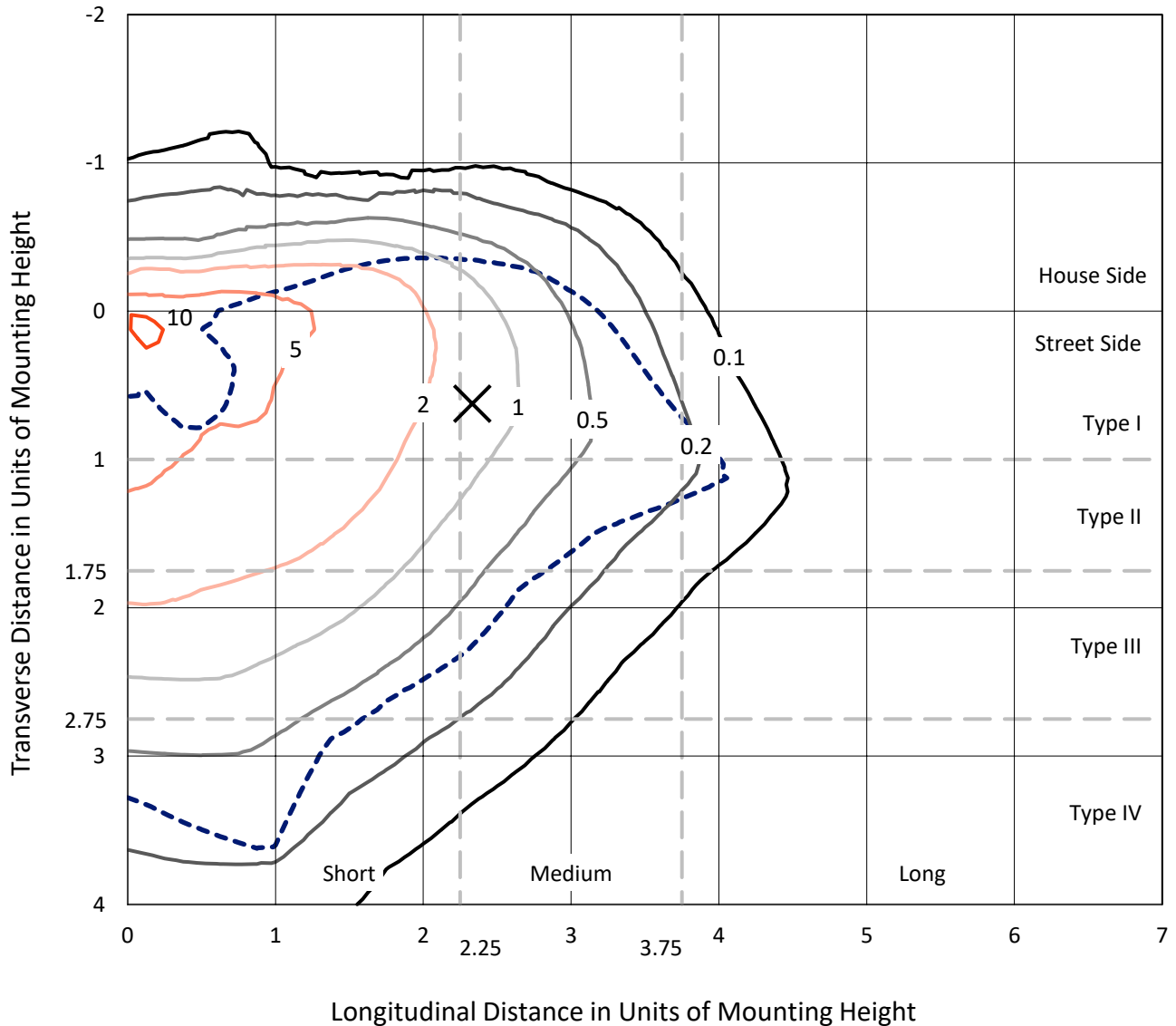
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

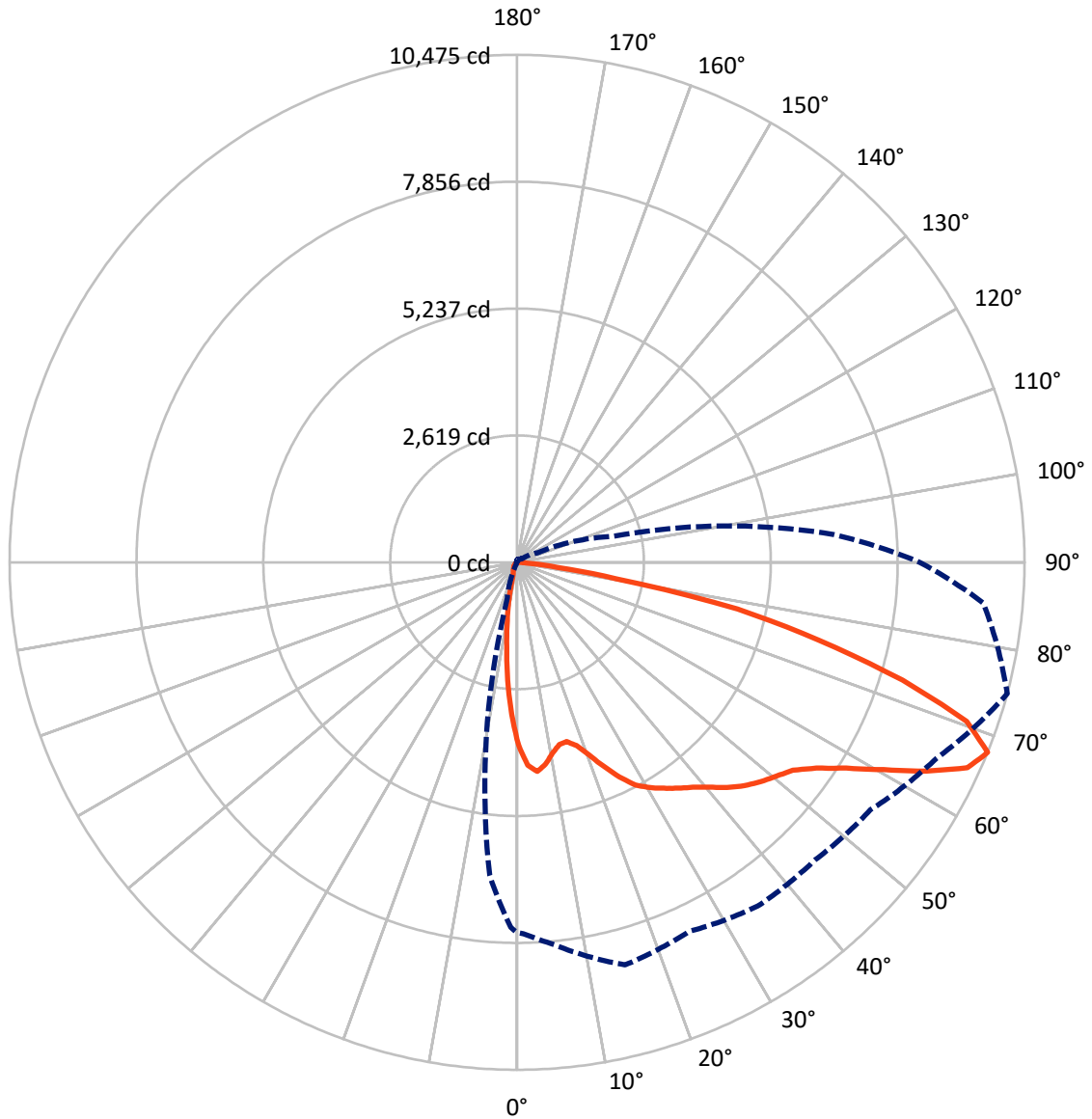
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.3 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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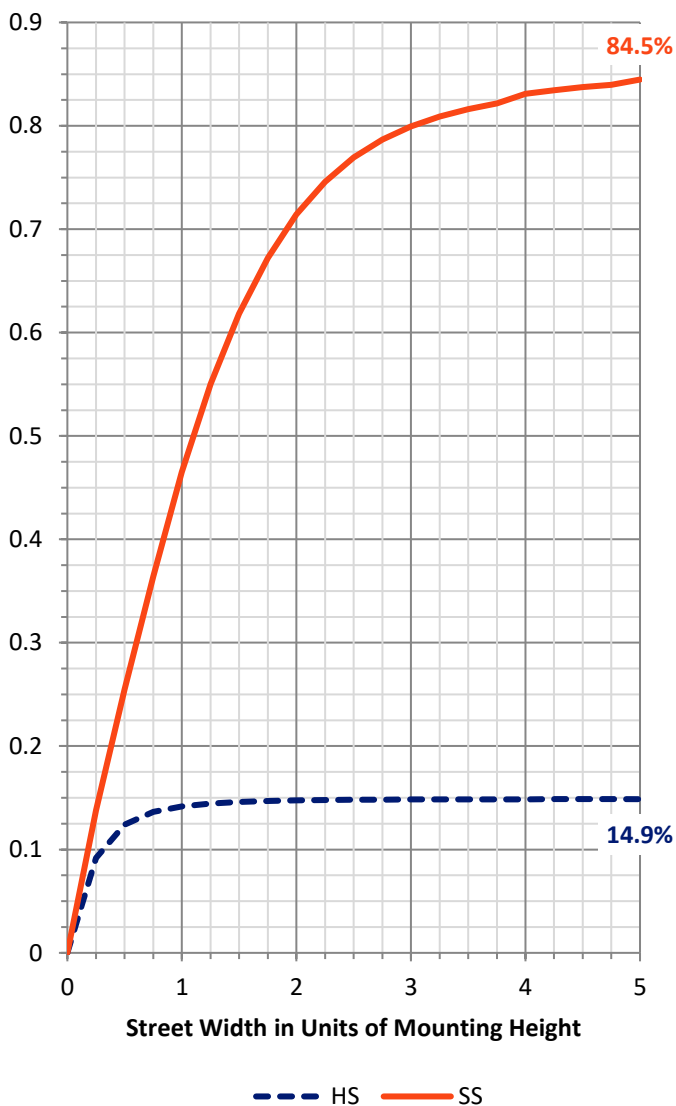
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1692.3	0.0	1692.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	9585.1	0.0	9585.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	11277.4	0.0	11277.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.0	2.5
10°-20°	565.1	5.0
20°-30°	799.4	7.1
30°-40°	1175.4	10.4
40°-50°	1689.4	15.0
50°-60°	2378.3	21.1
60°-70°	2777.6	24.6
70°-80°	1417.0	12.6
80°-90°	188.2	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°	11277.4	100.0
0°-180°	11277.4	100.0

Coefficient of Utilization

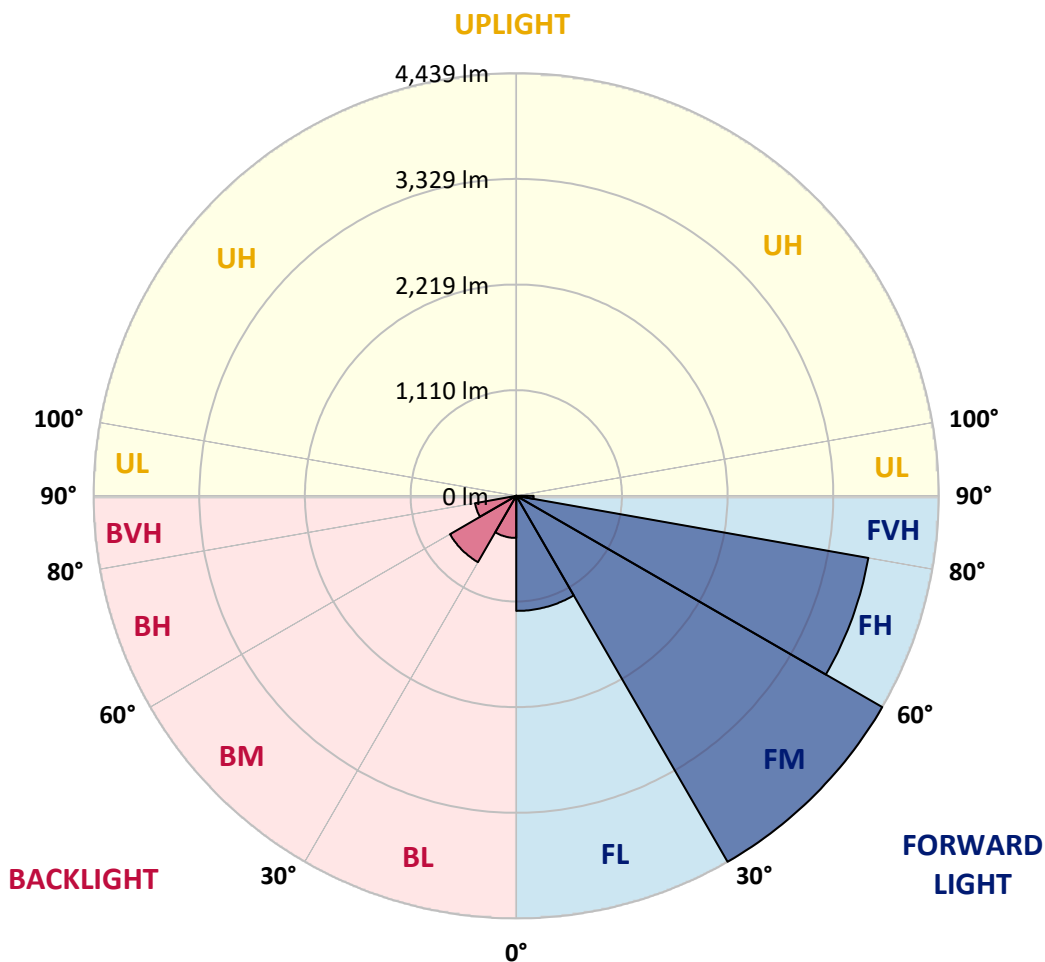


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1208.9	10.7			
FM (30°-60°)	4438.6	39.4			
FH (60°-80°)	3755.1	33.3			G2/5000
FVH (80°-90°)	182.5	1.6			G2/225
BL (0°-30°)	442.6	3.9	B1/500		
BM (30°-60°)	804.5	7.1	B1/1000		
BH (60°-80°)	439.6	3.9	B1/500		G1/500
BVH (80°-90°)	5.7	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°	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4
2.5°	4101.2	4107.7	4140.8	4217.7	4301.6	4308.0	4364.6	4306.4	4286.6	4192.6	4095.4
5°	4132.2	4156.8	4270.6	4496.6	4692.6	4755.7	4800.6	4686.3	4566.0	4336.3	4091.1
7.5°	3882.7	3923.8	4102.8	4527.0	4877.5	5032.4	5061.8	4882.8	4588.5	4210.3	3841.7
10°	3563.3	3610.3	3826.2	4347.5	4828.9	5094.3	5135.0	4900.4	4477.3	4006.1	3571.9
12.5°	3304.7	3359.7	3580.4	4145.5	4661.6	4955.5	5035.6	4841.2	4381.1	3861.4	3387.5
15°	3185.6	3248.6	3480.5	4015.3	4476.3	4707.6	4773.8	4689.9	4327.8	3838.4	3344.8
17.5°	3254.0	3322.4	3561.7	4026.4	4302.1	4401.0	4454.3	4488.5	4327.8	3976.7	3469.8
20°	3534.5	3608.1	3861.4	4140.3	4157.9	4121.0	4178.1	4298.4	4378.0	4239.6	3770.1
22.5°	3922.3	4008.9	4294.6	4335.2	4087.4	3947.9	3955.4	4143.9	4469.4	4573.0	4186.7
25°	4395.0	4500.8	4791.5	4625.9	4116.7	3844.8	3842.1	4016.8	4558.5	4906.8	4650.9
27.5°	4864.7	4981.1	5236.5	4980.6	4238.0	3826.2	3820.8	3978.3	4645.6	5203.9	5157.9
30°	5258.4	5371.6	5591.7	5237.6	4368.9	3869.9	3844.3	4019.5	4697.4	5396.7	5527.6
32.5°	5578.9	5669.7	5847.6	5414.4	4508.9	3954.8	3899.3	4129.6	4785.6	5559.7	5867.4
35°	5931.5	6027.2	6098.2	5582.6	4666.0	4077.3	3997.6	4304.2	4921.3	5725.3	6239.7
37.5°	6333.8	6428.8	6420.3	5736.5	4865.2	4279.7	4229.0	4581.0	5132.3	5889.3	6655.4
40°	6727.5	6824.7	6755.3	5904.7	5099.2	4613.6	4576.2	4996.6	5414.9	6099.2	7142.6
42.5°	7096.1	7201.4	7052.9	6064.0	5378.0	5034.5	5098.7	5531.9	5768.5	6357.8	7562.5
45°	7393.1	7500.5	7302.3	6218.9	5671.9	5545.2	5738.1	6124.8	6193.8	6576.3	7846.2
47.5°	7609.0	7710.5	7475.4	6373.9	6048.0	6169.8	6505.8	6746.7	6577.9	6766.0	8047.6
50°	7746.8	7825.9	7526.1	6567.8	6541.6	6898.4	7305.6	7423.1	6939.6	6937.0	8292.2
52.5°	7834.5	7870.2	7563.5	6770.2	7056.5	7691.8	8088.7	8125.6	7312.0	7124.9	8621.9
55°	8136.3	8165.1	7828.5	7015.5	7482.4	8386.8	8797.0	8762.9	7733.5	7493.1	9010.8
57.5°	8651.3	8681.7	8376.1	7368.0	7826.9	8816.3	9310.5	9372.0	8227.6	8010.2	9427.5
60°	8909.8	8966.4	8857.5	7814.6	8160.8	9090.9	9660.4	9856.5	8845.1	8691.8	9831.3
62.5°	8675.3	8757.6	8915.7	8309.9	8492.6	9242.1	9769.4	10030.1	9477.7	9486.3	10080.3
65°	8207.3	8273.1	8541.2	8581.3	8684.9	9223.4	9500.1	9787.5	9865.0	10216.0	10066.9
67.5°	7642.1	7666.7	7894.3	8602.6	8406.1	8661.4	8691.3	8904.0	9558.9	10474.5	9662.5
70°	6828.5	6841.8	7040.6	7887.3	7223.8	7279.9	7235.6	7278.8	8218.0	9844.7	8641.7
72.5°	5495.5	5529.3	5811.8	6550.1	5262.7	5100.8	5449.1	5429.9	6329.0	8317.4	6418.2
75°	4046.3	4104.5	4531.3	5276.0	3693.6	3341.0	3595.3	3663.2	4499.2	6433.6	4013.7
77.5°	2833.0	2876.2	3289.8	3878.5	2673.2	2389.1	2297.2	2377.8	2969.8	4654.1	2022.0
80°	1632.1	1648.1	1911.9	2239.5	1801.4	2061.0	1867.1	1922.7	1779.5	2070.6	869.7
82.5°	1067.9	1070.6	1173.7	1332.9	1121.9	1303.5	964.9	1233.5	1094.6	831.8	283.1
85°	577.0	580.2	680.6	946.2	635.2	359.0	211.0	433.2	676.8	190.7	77.5
87.5°	63.6	58.2	205.2	344.0	176.3	32.6	11.2	48.7	108.4	12.3	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°	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4
2.5°	4045.7	4001.3	3890.8	3773.7	3679.7	3591.6	3502.9	3394.5	3310.6	3293.5	3265.7
5°	3959.2	3818.6	3586.8	3353.8	3166.3	2929.7	2779.6	2662.6	2548.3	2541.3	2518.3
7.5°	3656.8	3471.9	3145.6	2823.3	2559.5	2334.0	2106.5	1954.2	1834.5	1792.4	1767.2
10°	3366.1	3158.3	2750.7	2383.1	2147.5	1948.3	1788.0	1628.8	1484.6	1385.2	1340.3
12.5°	3163.1	2933.4	2484.1	2167.4	1998.6	1809.5	1613.9	1415.2	1249.0	1129.3	1056.2
15°	3084.6	2839.4	2394.9	2081.9	1873.5	1634.2	1384.2	1157.1	972.8	864.3	798.7
17.5°	3178.1	2892.9	2388.0	1977.7	1686.6	1389.0	1112.8	844.6	671.0	588.7	546.5
20°	3415.3	3062.7	2385.3	1850.0	1464.3	1098.3	753.8	555.6	450.3	404.4	384.7
22.5°	3750.8	3279.6	2406.7	1724.0	1233.0	784.8	520.3	408.2	354.2	329.6	318.4
25°	4182.5	3584.2	2467.0	1609.7	1015.6	585.5	405.4	341.9	304.0	284.7	276.7
27.5°	4642.4	3934.6	2561.1	1510.3	838.7	466.9	347.2	292.7	265.5	252.1	244.7
30°	5021.7	4340.6	2656.1	1399.7	710.6	407.0	317.9	267.1	235.6	227.1	220.1
32.5°	5353.5	4647.7	2723.5	1299.7	626.7	361.7	287.5	238.8	217.5	200.8	193.4
35°	5697.0	4903.6	2721.3	1229.8	569.0	327.5	261.8	213.7	188.1	168.8	163.0
37.5°	6068.8	5192.7	2674.8	1169.9	543.8	300.2	247.3	200.4	174.7	155.5	148.0
40°	6504.2	5496.1	2627.3	1113.8	536.9	278.3	237.2	189.7	162.4	143.7	136.2
42.5°	6928.4	5769.7	2585.7	1072.2	507.0	277.8	228.1	181.7	152.7	134.6	126.1
45°	7267.6	6024.4	2577.6	1047.0	475.4	287.5	223.3	176.3	145.3	127.1	119.1
47.5°	7549.6	6301.2	2628.9	1029.5	445.6	262.3	235.0	172.6	138.4	120.7	111.7
50°	7885.2	6641.0	2749.7	1000.6	414.0	236.2	269.2	173.6	132.5	114.3	104.7
52.5°	8353.2	7111.1	2927.1	952.0	370.8	212.1	265.0	174.7	126.1	107.4	97.8
55°	8877.7	7698.1	3117.8	871.3	310.4	180.6	227.1	167.2	113.8	99.9	90.8
57.5°	9429.1	8230.8	3231.0	775.2	246.8	156.0	181.7	152.3	100.4	89.7	83.9
60°	9515.6	8433.3	3179.2	657.1	196.1	135.6	134.6	154.9	89.7	79.1	74.8
62.5°	9300.3	8179.0	2928.7	551.9	164.0	119.1	110.6	135.2	81.2	70.5	66.2
65°	8886.3	7491.5	2522.6	497.4	152.3	102.0	91.9	95.1	71.0	61.4	57.7
67.5°	8310.4	6573.6	2071.2	466.4	150.7	87.6	78.5	72.1	61.4	53.5	50.3
70°	7133.0	5476.4	1652.4	449.3	146.4	73.7	66.2	58.8	51.3	45.4	42.7
72.5°	5249.8	3880.6	1285.4	430.6	147.5	58.8	57.7	48.7	41.1	35.2	34.2
75°	3033.3	2217.1	843.0	348.9	140.5	45.4	48.1	34.2	28.8	24.6	24.6
77.5°	1616.6	1352.2	321.1	145.3	51.3	28.8	27.2	20.3	18.1	14.9	14.5
80°	704.6	595.1	96.7	40.6	28.3	15.5	10.1	9.1	8.0	6.4	5.9
82.5°	249.5	215.3	31.6	19.7	12.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	56.6	40.6	0.0	4.8	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°	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4
2.5°	3209.1	3197.3	3127.9	3130.5	3142.8	3160.5	3118.8	3138.0	3189.9	3239.5	3258.2
5°	2481.5	2484.1	2442.0	2468.2	2491.6	2507.6	2440.4	2441.4	2482.5	2538.6	2568.0
7.5°	1748.5	1744.3	1746.4	1808.9	1853.2	1821.2	1846.3	1759.2	1764.6	1804.6	1774.7
10°	1299.7	1241.0	1207.9	1254.9	1303.5	1285.8	1242.6	1214.3	1234.1	1278.4	1275.2
12.5°	1021.4	937.0	887.4	853.7	893.7	860.7	859.5	835.0	808.3	813.0	884.2
15°	768.2	706.8	648.0	594.1	592.9	581.8	524.7	460.5	455.1	458.3	495.2
17.5°	528.3	507.6	483.5	437.0	424.7	377.7	322.1	296.5	283.7	289.5	301.8
20°	371.2	363.3	366.0	340.8	323.2	278.3	245.7	235.6	233.4	239.4	245.2
22.5°	307.7	293.3	291.7	280.5	262.8	230.2	212.6	206.8	204.0	209.4	213.7
25°	269.2	254.9	248.9	242.0	223.3	200.8	190.2	184.9	182.1	185.3	188.1
27.5°	237.2	223.9	218.5	213.7	195.5	179.5	171.0	166.2	164.0	165.1	167.8
30°	213.1	201.4	194.5	188.5	173.1	161.9	154.4	149.6	147.5	147.5	150.1
32.5°	188.1	181.7	175.2	167.8	153.3	145.9	138.4	133.0	130.9	131.4	133.6
35°	156.5	154.4	156.0	149.1	136.8	130.4	122.9	117.0	115.4	115.9	118.1
37.5°	138.9	129.3	135.2	131.4	124.5	115.9	106.3	101.0	98.3	99.9	101.0
40°	127.7	115.9	111.7	115.4	114.3	100.4	91.9	86.5	84.5	84.9	86.0
42.5°	118.1	104.2	94.6	94.0	100.4	87.6	78.5	73.7	71.0	71.0	72.1
45°	109.0	94.0	82.3	73.2	84.5	74.2	65.7	61.4	58.2	58.2	58.8
47.5°	102.0	85.5	71.6	59.8	63.6	60.9	53.9	49.7	46.5	46.5	47.0
50°	95.6	76.9	62.0	50.3	47.5	50.3	43.8	39.0	36.8	36.4	37.4
52.5°	88.7	68.4	52.9	42.7	37.4	38.0	34.2	31.0	28.3	28.3	29.4
55°	81.7	61.4	45.9	36.4	31.0	28.3	27.2	25.1	23.0	23.0	24.0
57.5°	74.8	53.9	39.0	29.9	24.6	22.5	22.5	20.9	19.3	19.3	20.3
60°	68.4	46.5	32.0	24.6	19.3	18.7	19.3	17.7	16.5	16.5	17.7
62.5°	60.9	39.5	26.2	20.3	15.5	14.9	16.5	15.5	14.5	14.5	15.5
65°	51.9	33.6	20.9	15.5	11.7	11.7	13.9	12.8	11.7	11.7	12.8
67.5°	43.8	28.3	16.1	11.2	8.5	9.1	11.7	10.7	10.1	10.1	11.2
70°	36.4	21.9	11.2	7.0	4.8	7.0	9.1	9.1	9.1	9.1	10.1
72.5°	27.2	14.9	6.4	2.6	2.2	4.8	7.5	8.5	8.0	8.0	9.6
75°	17.7	8.5	2.2	0.0	0.0	2.6	5.9	7.0	7.0	6.4	8.0
77.5°	10.1	2.6	0.0	0.0	0.0	0.0	3.8	3.2	2.6	2.2	3.8
80°	2.6	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



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 CATALOG NUMBER: GAW-SA2D-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4	3783.4
2.5°	3333.5	3396.6	3485.2	3579.3	3724.0	3838.9	3951.7	4048.3	4085.8	4101.2
5°	2638.6	2731.0	2860.7	3027.5	3288.7	3523.8	3762.0	4001.9	4106.1	4132.2
7.5°	1893.3	2011.3	2176.4	2385.3	2691.5	2995.9	3328.7	3680.8	3842.1	3882.7
10°	1401.3	1545.5	1734.6	1954.7	2246.9	2560.0	2922.7	3325.0	3509.3	3563.3
12.5°	994.2	1189.2	1442.4	1710.1	1963.2	2242.7	2609.7	3053.1	3246.5	3304.7
15°	583.9	772.5	1072.2	1430.7	1755.0	2038.1	2411.0	2913.6	3126.9	3185.6
17.5°	335.0	429.0	655.5	1055.1	1495.3	1887.4	2348.5	2948.4	3199.5	3254.0
20°	255.9	285.8	377.7	679.6	1191.9	1739.5	2348.5	3145.0	3454.3	3534.5
22.5°	223.9	245.7	283.1	405.4	877.2	1580.8	2375.7	3429.2	3833.6	3922.3
25°	198.8	218.5	250.5	305.0	598.3	1392.2	2440.4	3778.1	4280.3	4395.0
27.5°	177.9	196.6	225.5	267.1	409.2	1164.6	2527.4	4187.3	4772.8	4864.7
30°	159.2	176.8	203.0	232.4	315.7	906.6	2601.7	4573.0	5159.5	5258.4
32.5°	141.6	157.6	181.1	203.0	258.5	670.4	2609.7	4878.6	5480.6	5578.9
35°	125.0	139.4	160.8	177.9	214.2	529.4	2485.3	5143.6	5801.7	5931.5
37.5°	109.0	122.9	141.6	154.4	188.5	431.7	2295.0	5438.9	6213.5	6333.8
40°	94.0	106.3	125.5	134.1	178.4	331.8	2088.3	5748.8	6617.5	6727.5
42.5°	80.1	91.9	110.6	127.1	156.5	247.9	1865.0	6039.5	6980.7	7096.1
45°	66.8	79.1	97.8	134.6	129.8	185.3	1626.2	6232.3	7267.6	7393.1
47.5°	53.9	67.8	93.5	128.2	103.6	136.2	1437.1	6414.9	7485.0	7609.0
50°	43.3	57.1	105.2	114.3	84.9	104.2	1358.0	6578.5	7627.7	7746.8
52.5°	35.2	48.1	99.4	87.6	71.0	86.0	1400.7	6843.4	7759.6	7834.5
55°	29.4	38.0	59.8	60.9	60.4	73.2	1453.6	7223.8	8101.0	8136.3
57.5°	25.6	30.4	41.7	47.0	50.7	65.2	1454.7	7769.7	8629.4	8651.3
60°	21.9	26.7	34.8	38.0	43.8	58.2	1401.8	7960.5	8837.2	8909.8
62.5°	19.3	23.5	28.8	31.6	36.8	52.3	1277.9	7684.3	8551.9	8675.3
65°	17.1	21.3	24.0	26.7	32.6	47.0	1073.8	7131.9	8078.6	8207.3
67.5°	14.9	18.7	21.3	24.0	29.4	41.7	790.7	6490.3	7535.3	7642.1
70°	13.3	16.5	19.3	21.3	25.6	35.2	479.7	5507.3	6784.1	6828.5
72.5°	12.8	14.9	17.7	19.3	22.5	31.0	243.1	4047.3	5423.5	5495.5
75°	11.2	13.3	16.1	17.1	19.7	26.7	98.8	2658.3	3930.3	4046.3
77.5°	9.1	12.3	14.5	15.5	17.1	21.9	50.3	1698.8	2758.2	2833.0
80°	3.2	9.1	12.3	12.8	14.5	16.1	33.2	930.1	1600.0	1632.1
82.5°	0.0	5.9	9.6	9.1	10.1	12.3	21.3	442.4	1056.2	1067.9
85°	0.0	2.6	7.5	5.9	4.2	8.5	7.5	96.7	554.0	577.0
87.5°	0.0	0.0	0.6	2.6	2.2	3.2	1.0	0.6	50.3	63.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)