

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: STREETWORKS

Report Number: P324176

Luminaire Tested: **GAN-SA2D-740-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324176
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 (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 11769 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

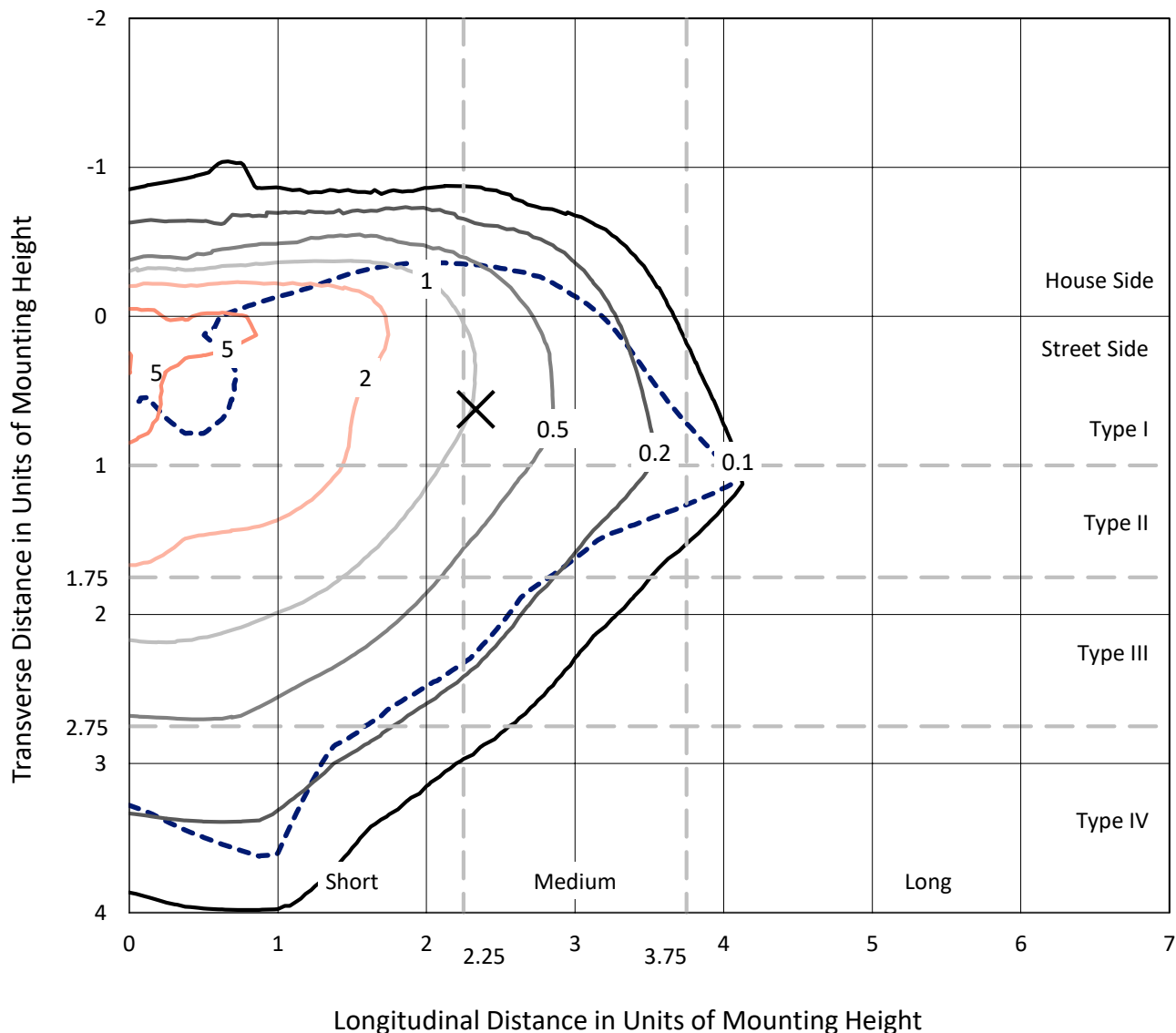
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

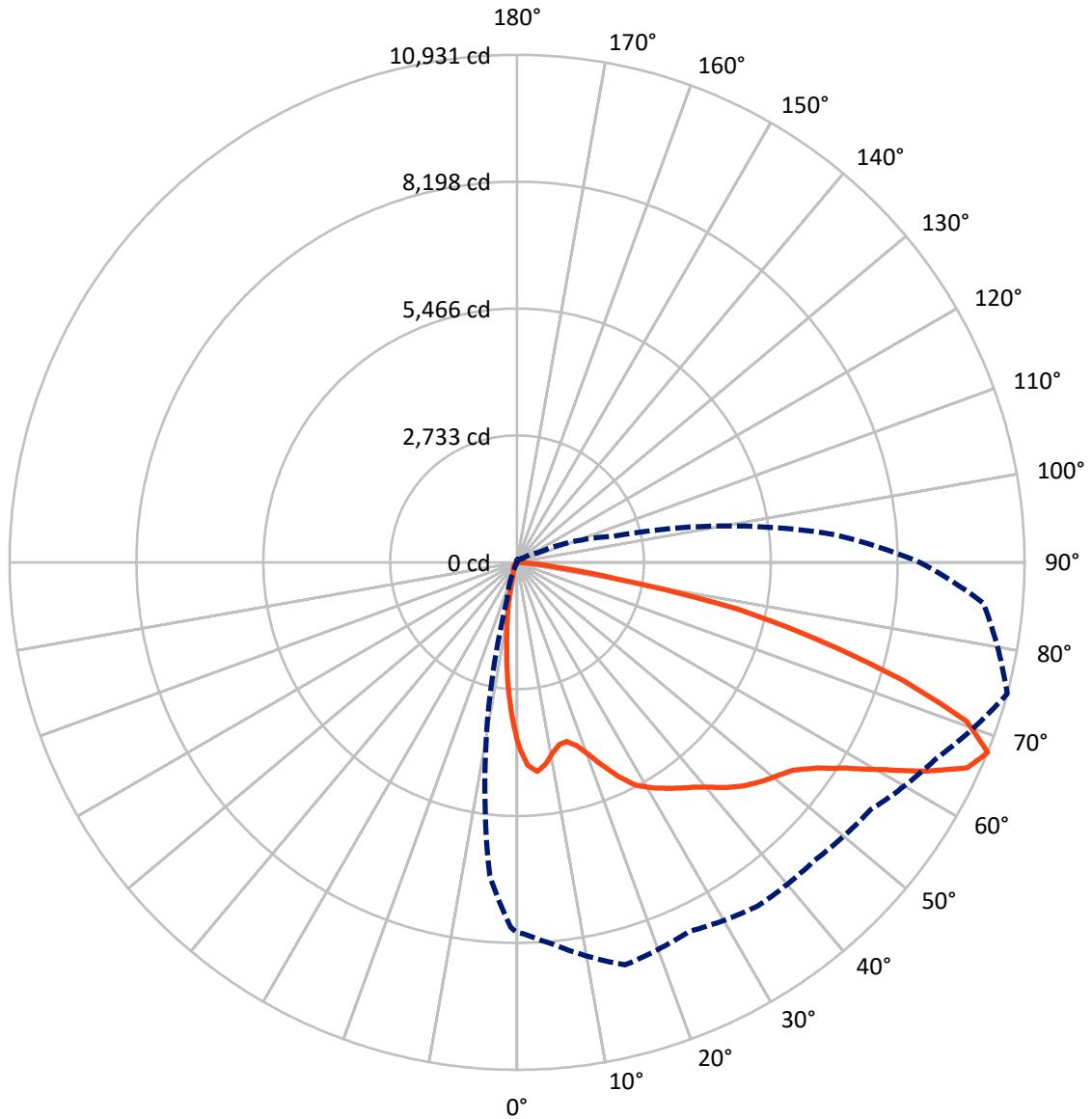
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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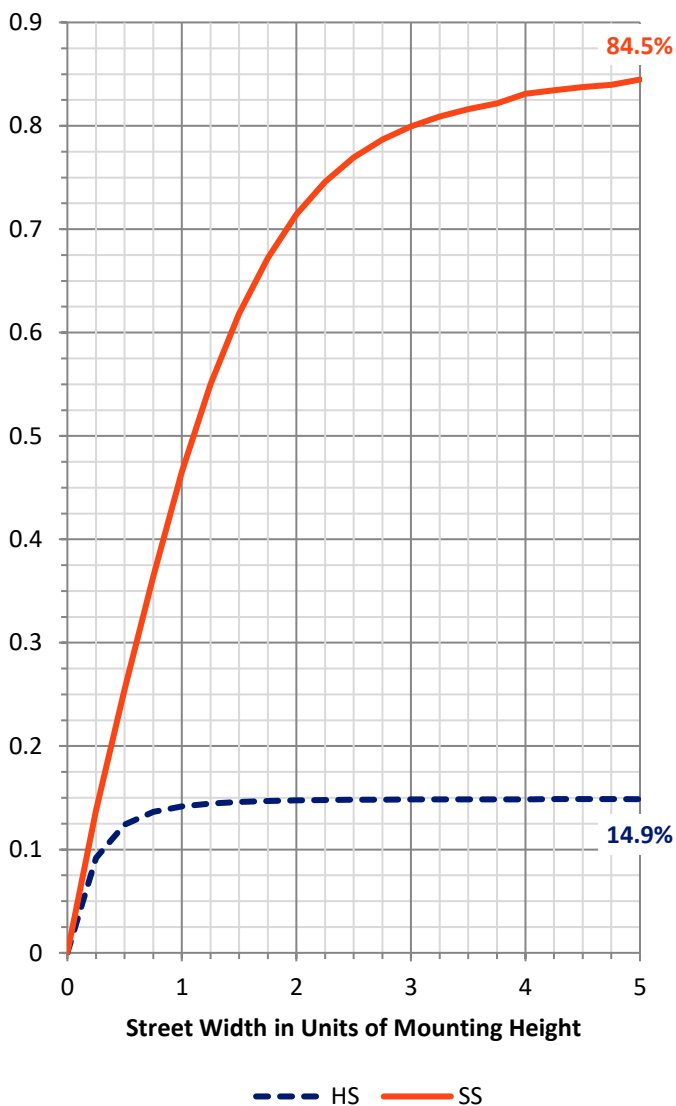
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1766.1	0.0	1766.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	10002.9	0.0	10002.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	11769.0	0.0	11769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.5	2.5
10°-20°	589.7	5.0
20°-30°	834.3	7.1
30°-40°	1226.6	10.4
40°-50°	1763.1	15.0
50°-60°	2481.9	21.1
60°-70°	2898.7	24.6
70°-80°	1478.8	12.6
80°-90°	196.4	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°	11769.0	100.0
0°-180°	11769.0	100.0

Coefficient of Utilization

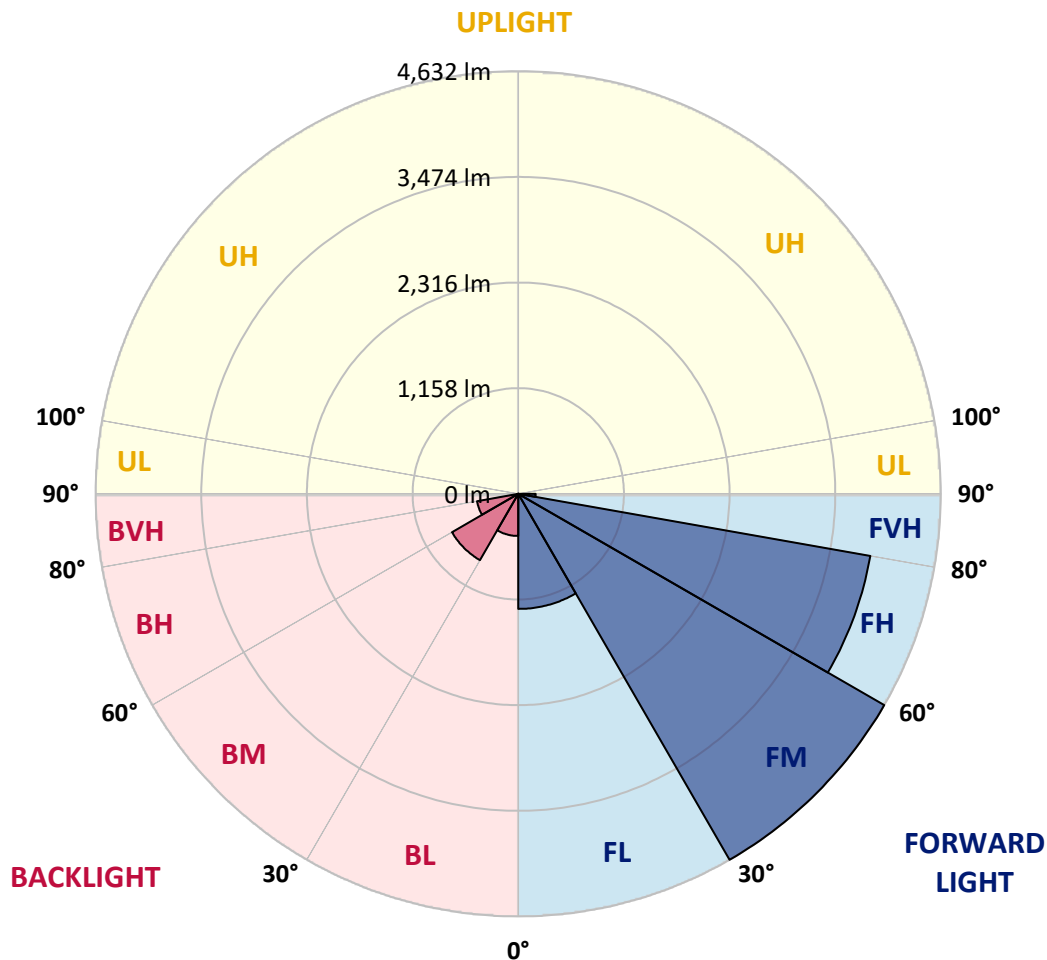


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1261.6	10.7			
FM (30°-60°)	4632.1	39.4			
FH (60°-80°)	3918.7	33.3			G2/5000
FVH (80°-90°)	190.5	1.6			G2/225
BL (0°-30°)	461.8	3.9	B1/500		
BM (30°-60°)	839.5	7.1	B1/1000		
BH (60°-80°)	458.7	3.9	B1/500		G1/500
BVH (80°-90°)	6.0	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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3
2.5°	4280.0	4286.7	4321.3	4401.6	4489.1	4495.8	4554.9	4494.1	4473.5	4375.4	4273.9
5°	4312.4	4338.0	4456.7	4692.6	4897.2	4963.0	5009.8	4890.5	4765.1	4525.3	4269.4
7.5°	4052.0	4094.9	4281.7	4724.4	5090.1	5251.8	5282.4	5095.7	4788.5	4393.8	4009.1
10°	3718.6	3767.7	3992.9	4537.0	5039.3	5316.4	5358.8	5114.1	4672.5	4180.8	3727.5
12.5°	3448.8	3506.2	3736.4	4326.3	4864.8	5171.5	5255.1	5052.2	4572.2	4029.7	3535.2
15°	3324.4	3390.2	3632.2	4190.3	4671.4	4912.8	4981.9	4894.4	4516.4	4005.7	3490.6
17.5°	3395.8	3467.2	3716.9	4202.0	4489.6	4592.8	4648.5	4684.2	4516.4	4150.1	3621.0
20°	3688.5	3765.4	4029.7	4320.7	4339.1	4300.6	4360.3	4485.7	4568.8	4424.4	3934.4
22.5°	4093.3	4183.6	4481.8	4524.2	4265.5	4120.0	4127.8	4324.6	4664.1	4772.3	4369.2
25°	4586.6	4697.0	5000.3	4827.5	4296.2	4012.4	4009.6	4191.9	4757.2	5120.7	4853.7
27.5°	5076.7	5198.2	5464.7	5197.7	4422.7	3992.9	3987.3	4151.8	4848.1	5430.7	5382.8
30°	5487.6	5605.8	5835.5	5465.8	4559.3	4038.6	4011.9	4194.7	4902.2	5632.0	5768.6
32.5°	5822.1	5916.9	6102.5	5650.4	4705.4	4127.3	4069.3	4309.6	4994.2	5802.0	6123.2
35°	6190.1	6289.8	6364.0	5826.0	4869.3	4254.9	4171.9	4491.9	5135.8	5974.9	6511.7
37.5°	6609.9	6709.1	6700.2	5986.6	5077.3	4466.2	4413.3	4780.7	5356.0	6146.0	6945.5
40°	7020.7	7122.2	7049.7	6162.2	5321.4	4814.7	4775.6	5214.4	5650.9	6365.1	7453.9
42.5°	7405.4	7515.3	7360.3	6328.3	5612.5	5254.0	5320.9	5773.0	6020.0	6634.9	7892.1
45°	7715.4	7827.5	7620.6	6490.0	5919.1	5787.0	5988.2	6391.9	6463.8	6863.0	8188.2
47.5°	7940.6	8046.6	7801.3	6651.7	6311.6	6438.7	6789.4	7040.8	6864.6	7060.9	8398.4
50°	8084.5	8167.0	7854.2	6854.0	6826.7	7199.1	7624.0	7746.6	7242.1	7239.3	8653.7
52.5°	8175.9	8213.3	7893.3	7065.3	7364.2	8027.1	8441.3	8479.8	7630.7	7435.5	8997.7
55°	8490.9	8521.0	8169.8	7321.2	7808.5	8752.4	9180.5	9144.9	8070.5	7819.7	9403.6
57.5°	9028.3	9060.1	8741.2	7689.2	8168.1	9200.6	9716.3	9780.4	8586.2	8359.3	9838.4
60°	9298.2	9357.3	9243.5	8155.3	8516.5	9487.2	10081.5	10286.1	9230.7	9070.7	10259.9
62.5°	9053.4	9139.3	9304.3	8672.1	8862.8	9645.0	10195.2	10467.3	9890.8	9899.7	10519.7
65°	8565.1	8633.6	8913.5	8955.3	9063.5	9625.4	9914.2	10214.2	10295.0	10661.3	10505.8
67.5°	7975.2	8000.9	8238.4	8977.6	8772.4	9038.9	9070.2	9292.0	9975.6	10931.1	10083.7
70°	7126.1	7140.1	7347.4	8231.1	7538.7	7597.2	7550.9	7596.1	8576.2	10273.8	9018.3
72.5°	5735.1	5770.2	6065.2	6835.7	5492.0	5323.1	5686.6	5666.5	6604.8	8679.9	6697.9
75°	4222.6	4283.4	4728.8	5506.0	3854.6	3486.7	3752.1	3822.9	4695.4	6714.1	4188.6
77.5°	2956.5	3001.6	3433.2	4047.5	2789.8	2493.2	2397.3	2481.5	3099.2	4857.0	2110.2
80°	1703.2	1719.9	1995.3	2337.1	1879.9	2150.9	1948.5	2006.5	1857.1	2160.9	907.6
82.5°	1114.5	1117.3	1224.9	1391.0	1170.8	1360.3	1006.9	1287.3	1142.3	868.0	295.5
85°	602.1	605.5	710.3	987.4	662.9	374.6	220.2	452.1	706.4	199.0	80.8
87.5°	66.3	60.8	214.1	359.0	184.0	34.0	11.7	50.7	113.2	12.8	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°	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3
2.5°	4222.0	4175.8	4060.4	3938.3	3840.1	3748.2	3655.6	3542.4	3454.9	3437.1	3408.1
5°	4131.7	3985.1	3743.1	3500.1	3304.4	3057.4	2900.7	2778.6	2659.3	2652.1	2628.1
7.5°	3816.2	3623.3	3282.6	2946.4	2671.0	2435.8	2198.3	2039.4	1914.5	1870.5	1844.2
10°	3512.9	3296.0	2870.6	2487.1	2241.2	2033.2	1866.0	1699.9	1549.3	1445.6	1398.8
12.5°	3301.0	3061.3	2592.4	2261.8	2085.7	1888.3	1684.2	1476.8	1303.5	1178.6	1102.2
15°	3219.1	2963.2	2499.3	2172.6	1955.2	1705.4	1444.5	1207.6	1015.2	902.1	833.5
17.5°	3316.6	3018.9	2492.1	2063.9	1760.1	1449.5	1161.3	881.4	700.2	614.4	570.3
20°	3564.2	3196.2	2489.3	1930.7	1528.1	1146.2	786.6	579.8	470.0	422.0	401.4
22.5°	3914.3	3422.6	2511.6	1799.1	1286.7	819.0	543.0	425.9	369.6	344.0	332.3
25°	4364.8	3740.3	2574.6	1679.8	1059.8	611.0	423.2	356.8	317.2	297.2	288.8
27.5°	4844.8	4106.1	2672.7	1576.1	875.3	487.3	362.4	305.5	277.1	263.1	255.3
30°	5240.6	4529.8	2771.9	1460.7	741.5	424.8	331.7	278.8	245.9	236.9	229.7
32.5°	5586.8	4850.4	2842.2	1356.4	654.0	377.4	299.9	249.2	226.9	209.6	201.8
35°	5945.3	5117.4	2840.0	1283.4	593.8	341.8	273.2	223.0	196.2	176.2	170.0
37.5°	6333.3	5419.0	2791.5	1221.0	567.5	313.3	258.1	209.1	182.3	162.2	154.4
40°	6787.7	5735.7	2741.8	1162.4	560.3	290.5	247.5	197.9	169.5	150.0	142.2
42.5°	7230.4	6021.1	2698.4	1118.9	529.1	289.9	238.1	189.6	159.4	140.5	131.6
45°	7584.4	6287.1	2690.0	1092.7	496.2	299.9	233.0	184.0	151.6	132.7	124.3
47.5°	7878.8	6575.9	2743.5	1074.3	465.0	273.7	245.3	180.1	144.4	126.0	116.5
50°	8228.9	6930.4	2869.5	1044.2	432.1	246.4	281.0	181.2	138.3	119.3	109.3
52.5°	8717.3	7421.0	3054.6	993.5	386.9	221.3	276.5	182.3	131.6	112.1	102.0
55°	9264.7	8033.7	3253.6	909.3	323.9	188.4	236.9	174.5	118.8	104.3	94.8
57.5°	9840.1	8589.6	3371.8	808.9	257.6	162.8	189.6	158.9	104.8	93.7	87.5
60°	9930.4	8800.9	3317.8	685.7	204.6	141.6	140.5	161.7	93.7	82.5	78.1
62.5°	9705.7	8535.5	3056.3	575.9	171.2	124.3	115.4	141.1	84.7	73.6	69.1
65°	9273.7	7818.0	2632.6	519.0	158.9	106.5	95.9	99.2	74.1	64.1	60.2
67.5°	8672.7	6860.2	2161.5	486.7	157.2	91.4	82.0	75.3	64.1	55.8	52.4
70°	7443.9	5715.1	1724.4	468.9	152.8	76.9	69.1	61.3	53.5	47.4	44.6
72.5°	5478.7	4049.8	1341.4	449.4	153.9	61.3	60.2	50.7	42.9	36.8	35.7
75°	3165.6	2313.7	879.8	364.1	146.6	47.4	50.2	35.7	30.1	25.6	25.6
77.5°	1687.0	1411.1	335.1	151.6	53.5	30.1	28.4	21.2	19.0	15.6	15.1
80°	735.4	621.1	100.9	42.4	29.5	16.2	10.6	9.5	8.4	6.7	6.1
82.5°	260.4	224.7	32.9	20.6	12.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	59.1	42.4	0.0	5.0	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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3
2.5°	3349.0	3336.7	3264.2	3267.0	3279.8	3298.2	3254.8	3274.8	3328.9	3380.8	3400.3
5°	2589.6	2592.4	2548.4	2575.7	2600.2	2617.0	2546.7	2547.8	2590.8	2649.3	2680.0
7.5°	1824.7	1820.3	1822.5	1887.7	1934.0	1900.6	1926.8	1835.9	1841.5	1883.3	1852.1
10°	1356.4	1295.1	1260.5	1309.6	1360.3	1341.9	1296.8	1267.2	1287.9	1334.1	1330.8
12.5°	1066.0	977.9	926.0	890.9	932.7	898.2	897.0	871.4	843.5	848.5	922.7
15°	801.7	737.6	676.3	620.0	618.8	607.1	547.5	480.6	475.0	478.3	516.8
17.5°	551.4	529.6	504.5	456.0	443.2	394.2	336.2	309.4	296.0	302.2	315.0
20°	387.5	379.1	381.9	355.7	337.3	290.5	256.5	245.9	243.6	249.8	255.9
22.5°	321.1	306.1	304.4	292.7	274.3	240.3	221.9	215.8	213.0	218.5	223.0
25°	281.0	265.9	259.8	252.6	233.0	209.6	198.5	192.9	190.1	193.5	196.2
27.5°	247.5	233.6	228.0	223.0	204.0	187.3	178.4	173.4	171.2	172.3	175.1
30°	222.4	210.2	202.9	196.8	180.6	168.9	161.1	156.1	153.9	153.9	156.7
32.5°	196.2	189.6	182.9	175.1	160.0	152.2	144.4	138.8	136.6	137.1	139.4
35°	163.4	161.1	162.8	155.5	142.7	136.0	128.2	122.1	120.4	121.0	123.2
37.5°	145.0	134.9	141.1	137.1	129.9	121.0	110.9	105.4	102.6	104.3	105.4
40°	133.2	121.0	116.5	120.4	119.3	104.8	95.9	90.3	88.1	88.6	89.8
42.5°	123.2	108.7	98.7	98.1	104.8	91.4	82.0	76.9	74.1	74.1	75.3
45°	113.7	98.1	85.9	76.4	88.1	77.5	68.6	64.1	60.8	60.8	61.3
47.5°	106.5	89.2	74.7	62.4	66.3	63.6	56.3	51.8	48.5	48.5	49.1
50°	99.8	80.3	64.7	52.4	49.6	52.4	45.7	40.7	38.5	37.9	39.0
52.5°	92.5	71.4	55.2	44.6	39.0	39.6	35.7	32.3	29.5	29.5	30.7
55°	85.3	64.1	47.9	37.9	32.3	29.5	28.4	26.2	24.0	24.0	25.1
57.5°	78.1	56.3	40.7	31.2	25.6	23.4	23.4	21.7	20.1	20.1	21.2
60°	71.4	48.5	33.5	25.6	20.1	19.5	20.1	18.4	17.3	17.3	18.4
62.5°	63.6	41.3	27.3	21.2	16.2	15.6	17.3	16.2	15.1	15.1	16.2
65°	54.1	35.1	21.7	16.2	12.3	12.3	14.5	13.4	12.3	12.3	13.4
67.5°	45.7	29.5	16.7	11.7	8.9	9.5	12.3	11.2	10.6	10.6	11.7
70°	37.9	22.9	11.7	7.2	5.0	7.2	9.5	9.5	9.5	9.5	10.6
72.5°	28.4	15.6	6.7	2.8	2.2	5.0	7.8	8.9	8.4	8.4	10.0
75°	18.4	8.9	2.2	0.0	0.0	2.8	6.1	7.2	7.2	6.7	8.4
77.5°	10.6	2.8	0.0	0.0	0.0	0.0	3.9	3.3	2.8	2.2	3.9
80°	2.8	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: GAN-SA2D-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3
2.5°	3478.9	3544.7	3637.2	3735.3	3886.4	4006.3	4123.9	4224.8	4263.8	4280.0
5°	2753.6	2850.0	2985.5	3159.4	3432.0	3677.3	3926.0	4176.3	4285.0	4312.4
7.5°	1975.8	2099.0	2271.3	2489.3	2808.7	3126.5	3473.9	3841.3	4009.6	4052.0
10°	1462.4	1612.9	1810.2	2039.9	2344.9	2671.6	3050.1	3470.0	3662.3	3718.6
12.5°	1037.5	1241.0	1505.3	1784.6	2048.9	2340.4	2723.4	3186.2	3388.0	3448.8
15°	609.4	806.2	1118.9	1493.0	1831.4	2126.9	2516.1	3040.7	3263.1	3324.4
17.5°	349.6	447.7	684.1	1101.1	1560.5	1969.7	2450.8	3076.9	3338.9	3395.8
20°	267.0	298.3	394.2	709.2	1243.8	1815.3	2450.8	3282.1	3604.9	3688.5
22.5°	233.6	256.5	295.5	423.2	915.4	1649.7	2479.3	3578.7	4000.7	4093.3
25°	207.4	228.0	261.5	318.3	624.4	1452.9	2546.7	3942.7	4466.8	4586.6
27.5°	185.7	205.2	235.3	278.8	427.1	1215.4	2637.6	4369.8	4980.8	5076.7
30°	166.1	184.5	211.9	242.5	329.5	946.1	2715.1	4772.3	5384.4	5487.6
32.5°	147.7	164.5	189.0	211.9	269.8	699.7	2723.4	5091.2	5719.5	5822.1
35°	130.5	145.5	167.8	185.7	223.6	552.5	2593.5	5367.7	6054.6	6190.1
37.5°	113.7	128.2	147.7	161.1	196.8	450.5	2395.1	5676.0	6484.4	6609.9
40°	98.1	110.9	131.0	139.9	186.2	346.2	2179.3	5999.4	6905.9	7020.7
42.5°	83.6	95.9	115.4	132.7	163.4	258.7	1946.3	6302.7	7285.0	7405.4
45°	69.7	82.5	102.0	140.5	135.5	193.5	1697.1	6503.9	7584.4	7715.4
47.5°	56.3	70.8	97.6	133.8	108.2	142.2	1499.7	6694.6	7811.3	7940.6
50°	45.2	59.7	109.8	119.3	88.6	108.7	1417.2	6865.2	7960.2	8084.5
52.5°	36.8	50.2	103.7	91.4	74.1	89.8	1461.8	7141.7	8097.9	8175.9
55°	30.7	39.6	62.4	63.6	63.0	76.4	1517.0	7538.7	8454.1	8490.9
57.5°	26.8	31.8	43.5	49.1	53.0	68.0	1518.1	8108.5	9005.5	9028.3
60°	22.9	27.9	36.2	39.6	45.7	60.8	1462.9	8307.5	9222.4	9298.2
62.5°	20.1	24.5	30.1	32.9	38.5	54.6	1333.6	8019.2	8924.6	9053.4
65°	17.8	22.3	25.1	27.9	34.0	49.1	1120.6	7442.8	8430.7	8565.1
67.5°	15.6	19.5	22.3	25.1	30.7	43.5	825.1	6773.2	7863.7	7975.2
70°	13.9	17.3	20.1	22.3	26.8	36.8	500.6	5747.4	7079.8	7126.1
72.5°	13.4	15.6	18.4	20.1	23.4	32.3	253.7	4223.7	5659.9	5735.1
75°	11.7	13.9	16.7	17.8	20.6	27.9	103.1	2774.2	4101.6	4222.6
77.5°	9.5	12.8	15.1	16.2	17.8	22.9	52.4	1772.9	2878.4	2956.5
80°	3.3	9.5	12.8	13.4	15.1	16.7	34.6	970.6	1669.7	1703.2
82.5°	0.0	6.1	10.0	9.5	10.6	12.8	22.3	461.6	1102.2	1114.5
85°	0.0	2.8	7.8	6.1	4.5	8.9	7.8	100.9	578.1	602.1
87.5°	0.0	0.0	0.6	2.8	2.2	3.3	1.1	0.6	52.4	66.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)