

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: P324136

Luminaire Tested: **GAN-SA2D-730-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324136
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-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 10718 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

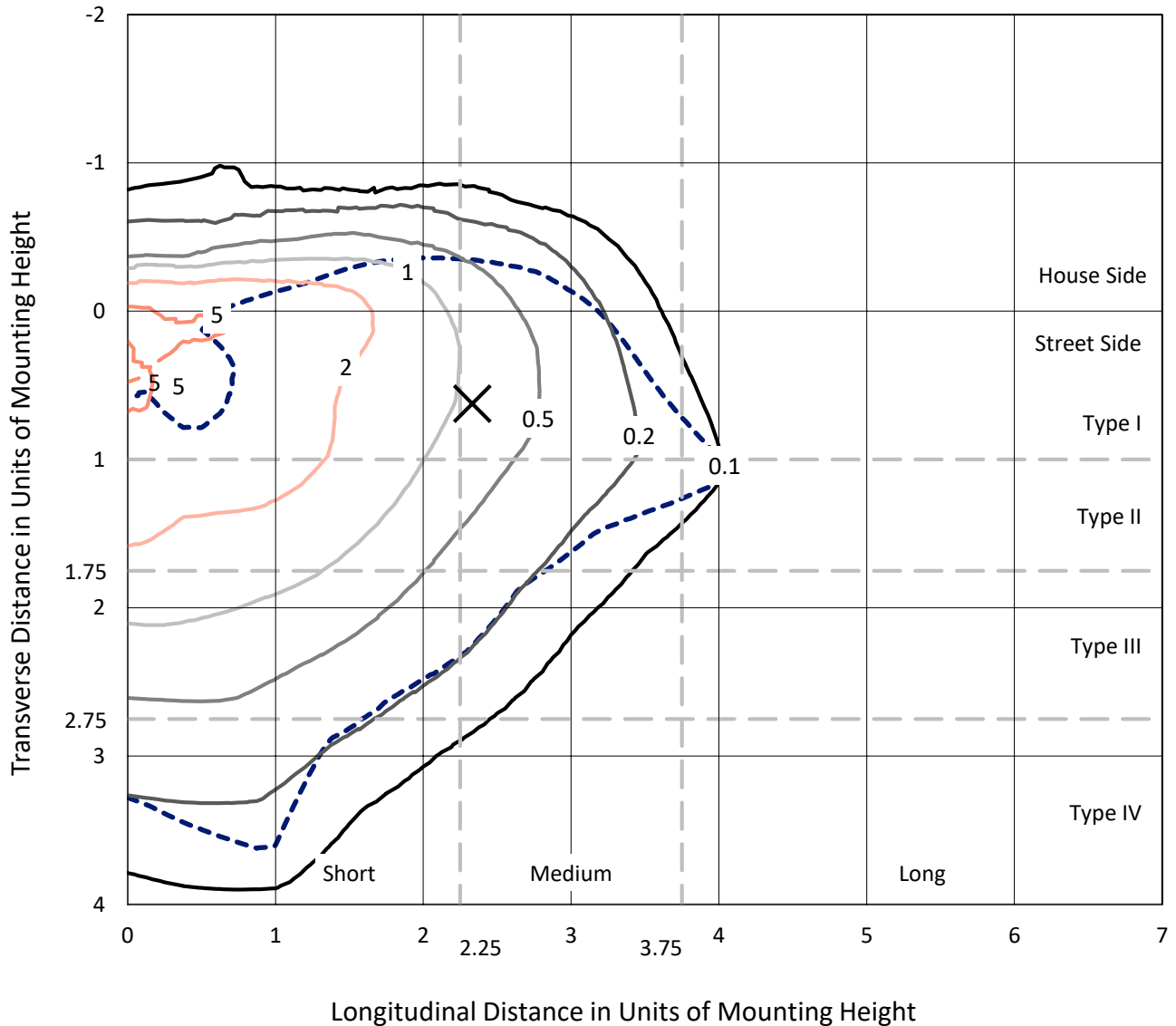
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

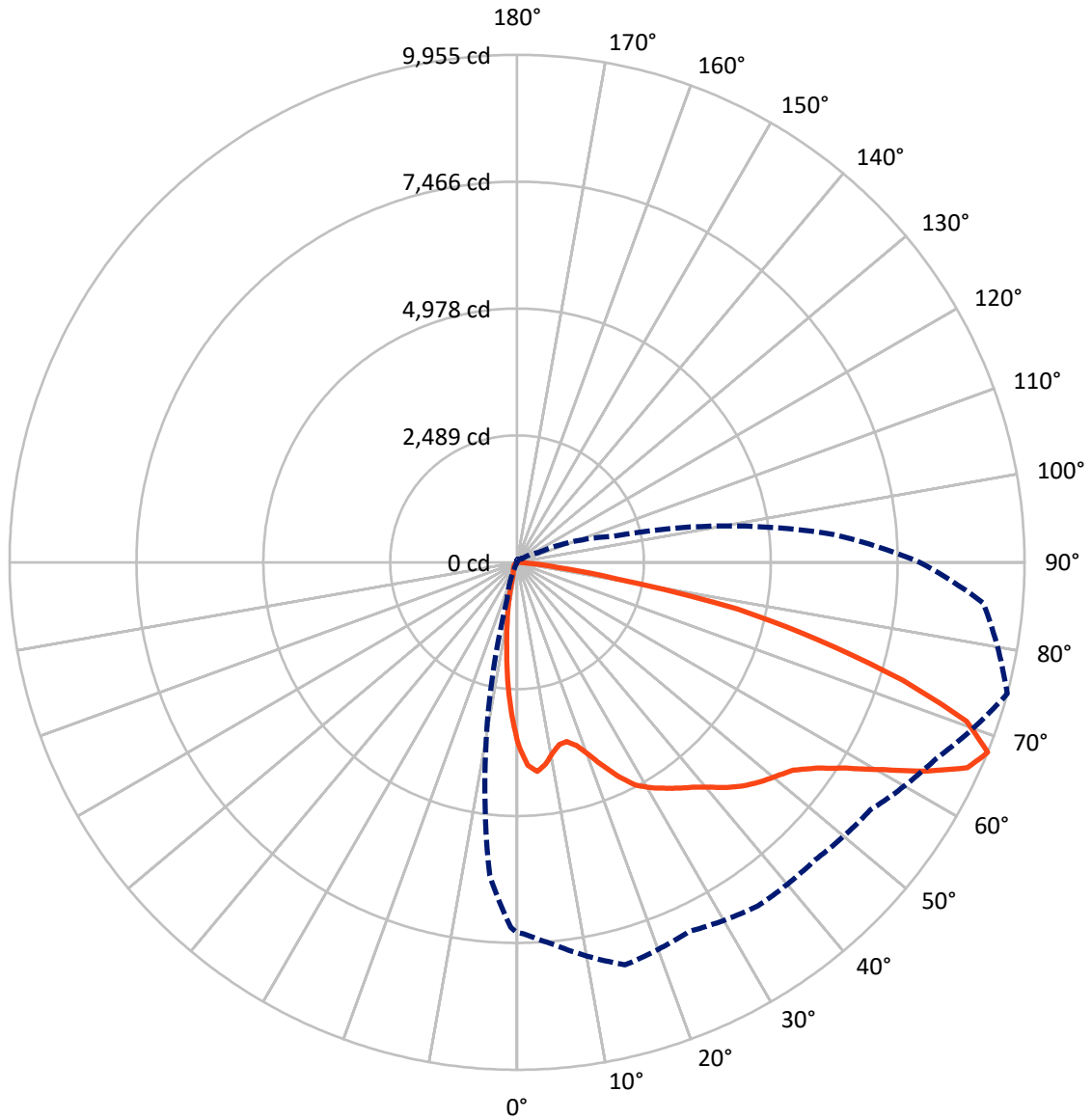
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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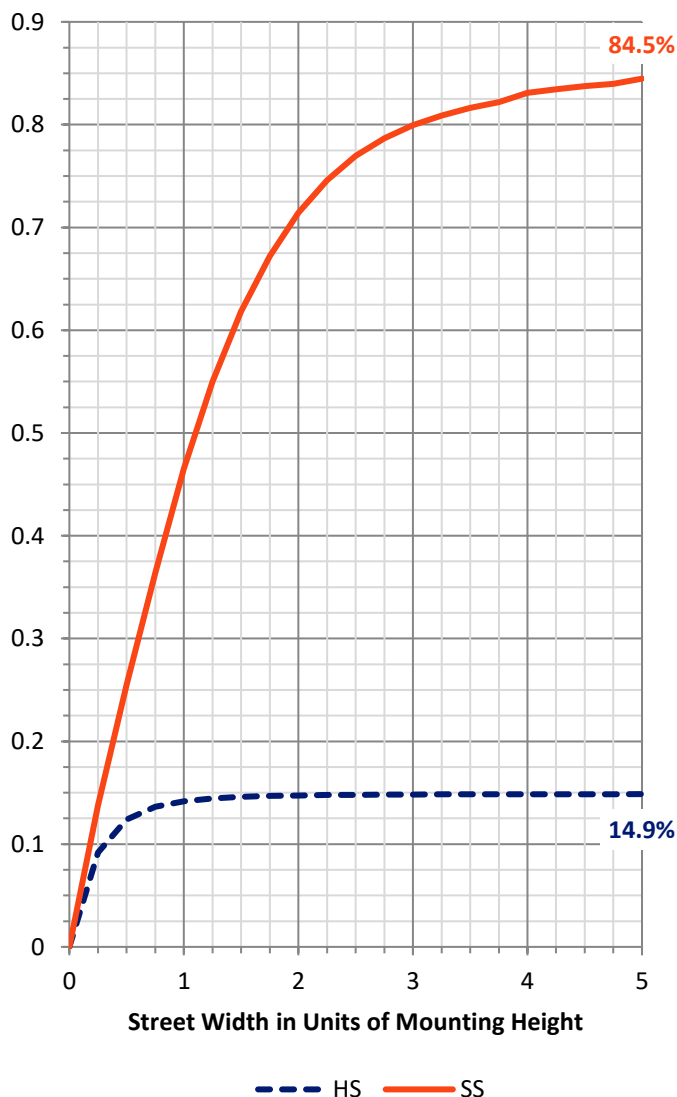
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1608.3	0.0	1608.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	9109.6	0.0	9109.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	10718.0	0.0	10718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.8	2.5
10°-20°	537.1	5.0
20°-30°	759.8	7.1
30°-40°	1117.1	10.4
40°-50°	1605.6	15.0
50°-60°	2260.3	21.1
60°-70°	2639.8	24.6
70°-80°	1346.7	12.6
80°-90°	178.9	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°	10718.0	100.0
0°-180°	10718.0	100.0

Coefficient of Utilization

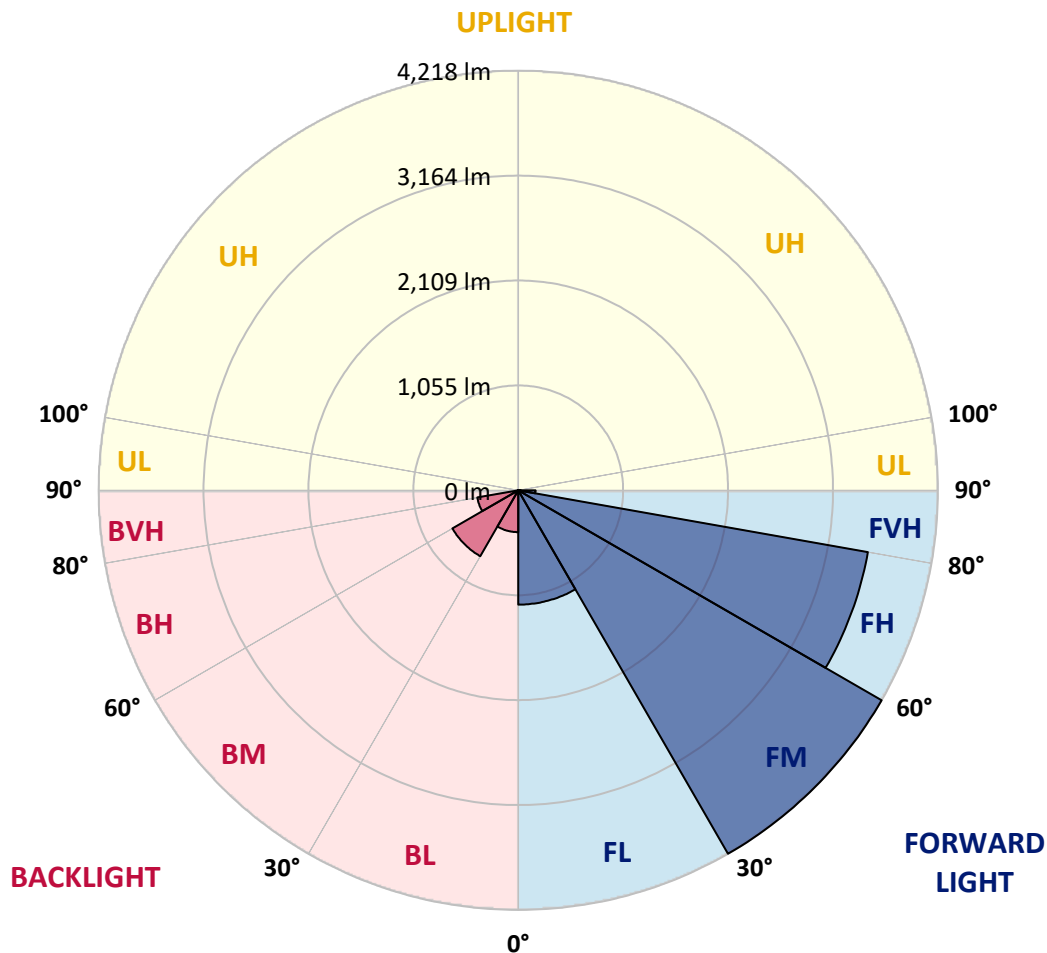


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1149.0	10.7			
FM (30°-60°)	4218.4	39.4			
FH (60°-80°)	3568.8	33.3			G2/5000
FVH (80°-90°)	173.5	1.6			G2/225
BL (0°-30°)	420.6	3.9	B1/500		
BM (30°-60°)	764.6	7.1	B1/1000		
BH (60°-80°)	417.8	3.9	B1/500		G1/500
BVH (80°-90°)	5.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7
2.5°	3897.8	3903.9	3935.4	4008.5	4088.2	4094.3	4148.1	4092.8	4074.0	3984.6	3892.2
5°	3927.2	3950.6	4058.8	4273.5	4459.9	4519.8	4562.4	4453.8	4339.5	4121.2	3888.2
7.5°	3690.1	3729.2	3899.3	4302.5	4635.5	4782.8	4810.7	4640.6	4360.8	4001.4	3651.0
10°	3386.5	3431.2	3636.3	4131.9	4589.3	4841.7	4880.2	4657.4	4255.2	3807.4	3394.6
12.5°	3140.8	3193.1	3402.8	3939.9	4430.4	4709.7	4785.8	4601.0	4163.8	3669.8	3219.5
15°	3027.6	3087.5	3307.8	3816.1	4254.2	4474.1	4537.0	4457.3	4113.1	3648.0	3178.9
17.5°	3092.6	3157.5	3385.0	3826.7	4088.7	4182.6	4233.4	4265.9	4113.1	3779.5	3297.7
20°	3359.1	3429.2	3669.8	3934.9	3951.6	3916.6	3970.9	4085.2	4160.8	4029.3	3583.0
22.5°	3727.7	3810.0	4081.6	4120.2	3884.6	3752.1	3759.2	3938.4	4247.6	4346.1	3979.0
25°	4177.1	4277.6	4553.8	4396.4	3912.5	3654.1	3651.6	3817.6	4332.4	4663.5	4420.3
27.5°	4623.3	4734.0	4976.7	4733.5	4027.8	3636.3	3631.2	3781.0	4415.2	4945.7	4902.1
30°	4997.5	5105.2	5314.4	4977.7	4152.2	3678.0	3653.6	3820.1	4464.4	5129.0	5253.4
32.5°	5302.2	5388.5	5557.6	5145.8	4285.2	3758.7	3705.9	3924.7	4548.2	5283.9	5576.3
35°	5637.3	5728.1	5795.7	5305.7	4434.5	3875.0	3799.3	4090.7	4677.2	5441.3	5930.2
37.5°	6019.6	6110.0	6101.8	5451.9	4623.8	4067.4	4019.1	4353.7	4877.7	5597.2	6325.2
40°	6393.8	6486.2	6420.2	5611.9	4846.2	4384.7	4349.2	4748.7	5146.3	5796.7	6788.3
42.5°	6744.1	6844.1	6703.0	5763.2	5111.3	4784.8	4845.7	5257.5	5482.4	6042.4	7187.3
45°	7026.4	7128.5	6940.1	5910.4	5390.5	5270.2	5453.5	5821.1	5886.6	6250.1	7457.0
47.5°	7231.5	7328.0	7104.6	6057.7	5748.0	5863.7	6183.1	6412.1	6251.6	6430.3	7648.4
50°	7362.5	7437.7	7152.8	6242.0	6217.1	6556.2	6943.1	7054.8	6595.3	6592.8	7880.9
52.5°	7445.8	7479.8	7188.4	6434.4	6706.5	7310.2	7687.5	7722.5	6949.2	6771.5	8194.2
55°	7732.6	7760.1	7440.2	6667.4	7111.2	7970.8	8360.7	8328.2	7349.8	7121.3	8563.8
57.5°	8222.1	8251.0	7960.6	7002.5	7438.7	8379.0	8848.6	8907.0	7819.5	7612.8	8959.8
60°	8467.8	8521.6	8418.1	7427.0	7756.0	8639.9	9181.2	9367.5	8406.4	8260.7	9343.7
62.5°	8244.9	8323.1	8473.4	7897.7	8071.3	8783.6	9284.8	9532.5	9007.5	9015.7	9580.3
65°	7800.2	7862.6	8117.5	8155.6	8254.1	8765.9	9028.9	9302.0	9375.6	9709.2	9567.6
67.5°	7263.0	7286.4	7502.6	8175.9	7989.0	8231.7	8260.2	8462.2	9084.7	9955.0	9183.2
70°	6489.7	6502.4	6691.3	7496.0	6865.5	6918.8	6876.6	6917.7	7810.3	9356.3	8213.0
72.5°	5223.0	5254.9	5523.5	6225.2	5001.6	4847.8	5178.8	5160.5	6015.0	7904.8	6099.8
75°	3845.5	3900.8	4306.5	5014.3	3510.4	3175.3	3417.0	3481.5	4276.1	6114.5	3814.5
77.5°	2692.5	2733.6	3126.6	3686.1	2540.7	2270.5	2183.2	2259.9	2822.4	4423.3	1921.7
80°	1551.1	1566.3	1817.1	2128.4	1712.0	1958.8	1774.5	1827.3	1691.2	1967.9	826.6
82.5°	1014.9	1017.5	1115.5	1266.8	1066.2	1238.8	917.0	1172.3	1040.3	790.5	269.1
85°	548.3	551.4	646.8	899.2	603.7	341.2	200.6	411.8	643.3	181.3	73.6
87.5°	60.4	55.3	195.0	327.0	167.5	31.0	10.7	46.2	103.1	11.7	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°	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7
2.5°	3845.0	3802.9	3697.8	3586.6	3497.2	3413.4	3329.2	3226.1	3146.4	3130.1	3103.7
5°	3762.7	3629.2	3408.9	3187.5	3009.3	2784.4	2641.7	2530.5	2421.8	2415.2	2393.4
7.5°	3475.4	3299.7	2989.5	2683.3	2432.5	2218.2	2002.0	1857.3	1743.5	1703.4	1679.6
10°	3199.2	3001.7	2614.3	2265.0	2041.1	1851.7	1699.4	1548.1	1411.0	1316.5	1273.9
12.5°	3006.2	2787.9	2360.9	2059.8	1899.4	1719.7	1533.8	1345.0	1187.1	1073.3	1003.8
15°	2931.6	2698.6	2276.1	1978.6	1780.6	1553.1	1315.5	1099.7	924.6	821.5	759.0
17.5°	3020.5	2749.3	2269.5	1879.6	1602.9	1320.1	1057.6	802.7	637.7	559.5	519.4
20°	3245.9	2910.8	2267.0	1758.3	1391.7	1043.9	716.4	528.0	428.0	384.3	365.6
22.5°	3564.7	3116.9	2287.3	1638.4	1171.8	745.8	494.5	387.9	336.6	313.3	302.6
25°	3975.0	3406.3	2344.7	1529.8	965.2	556.5	385.4	324.9	288.9	270.6	263.0
27.5°	4412.1	3739.4	2434.0	1435.3	797.1	443.8	330.0	278.2	252.3	239.6	232.5
30°	4772.6	4125.3	2524.4	1330.2	675.3	386.9	302.1	253.9	223.9	215.8	209.2
32.5°	5087.9	4417.2	2588.4	1235.3	595.6	343.7	273.2	227.0	206.6	190.9	183.8
35°	5414.4	4660.4	2586.3	1168.8	540.7	311.2	248.8	203.1	178.7	160.4	154.9
37.5°	5767.8	4935.1	2542.2	1111.9	516.9	285.3	235.1	190.4	166.0	147.7	140.6
40°	6181.5	5223.5	2497.0	1058.6	510.3	264.5	225.4	180.2	154.3	136.6	129.5
42.5°	6584.7	5483.4	2457.4	1019.0	481.8	264.0	216.8	172.6	145.2	127.9	119.8
45°	6907.1	5725.6	2449.8	995.1	451.9	273.2	212.2	167.5	138.1	120.8	113.2
47.5°	7175.2	5988.6	2498.5	978.4	423.4	249.3	223.4	164.0	131.5	114.7	106.1
50°	7494.0	6311.5	2613.3	951.0	393.5	224.4	255.9	165.0	125.9	108.7	99.5
52.5°	7938.8	6758.3	2781.8	904.8	352.4	201.6	251.8	166.0	119.8	102.1	92.9
55°	8437.4	7316.3	2963.1	828.1	295.0	171.6	215.8	158.9	108.1	94.9	86.3
57.5°	8961.3	7822.5	3070.7	736.7	234.6	148.3	172.6	144.7	95.5	85.3	79.7
60°	9043.6	8014.9	3021.5	624.5	186.3	129.0	127.9	147.2	85.3	75.1	71.1
62.5°	8839.0	7773.3	2783.3	524.5	155.9	113.2	105.1	128.5	77.2	67.0	63.0
65°	8445.5	7119.8	2397.5	472.7	144.7	97.0	87.3	90.4	67.5	58.4	54.8
67.5°	7898.2	6247.6	1968.4	443.2	143.2	83.3	74.6	68.5	58.4	50.8	47.7
70°	6779.1	5204.7	1570.4	427.0	139.1	70.1	63.0	55.8	48.7	43.2	40.6
72.5°	4989.4	3688.1	1221.6	409.2	140.1	55.8	54.8	46.2	39.1	33.5	32.5
75°	2882.9	2107.1	801.2	331.5	133.5	43.2	45.7	32.5	27.4	23.4	23.4
77.5°	1536.4	1285.1	305.1	138.1	48.7	27.4	25.9	19.3	17.3	14.2	13.7
80°	669.7	565.6	91.9	38.6	26.9	14.7	9.6	8.6	7.6	6.1	5.6
82.5°	237.1	204.6	30.0	18.8	11.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	53.8	38.6	0.0	4.6	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°	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7
2.5°	3049.9	3038.7	2972.7	2975.3	2986.9	3003.7	2964.1	2982.4	3031.6	3078.8	3096.6
5°	2358.4	2360.9	2320.8	2345.7	2368.0	2383.3	2319.3	2320.3	2359.4	2412.7	2440.6
7.5°	1661.8	1657.7	1659.8	1719.2	1761.3	1730.8	1754.7	1671.9	1677.0	1715.1	1686.7
10°	1235.3	1179.4	1148.0	1192.6	1238.8	1222.1	1181.0	1154.1	1172.8	1215.0	1211.9
12.5°	970.8	890.5	843.3	811.3	849.4	817.9	816.9	793.6	768.2	772.8	840.3
15°	730.1	671.7	615.9	564.6	563.6	552.9	498.6	437.7	432.6	435.6	470.7
17.5°	502.1	482.3	459.5	415.3	403.6	359.0	306.2	281.8	269.6	275.2	286.9
20°	352.9	345.3	347.8	323.9	307.2	264.5	233.6	223.9	221.9	227.5	233.0
22.5°	292.4	278.7	277.2	266.6	249.8	218.8	202.1	196.5	194.0	199.0	203.1
25°	255.9	242.2	236.6	230.0	212.2	190.9	180.7	175.7	173.1	176.2	178.7
27.5°	225.4	212.7	207.7	203.1	185.8	170.6	162.5	157.9	155.9	156.9	159.4
30°	202.6	191.4	184.8	179.2	164.5	153.8	146.7	142.2	140.1	140.1	142.7
32.5°	178.7	172.6	166.5	159.4	145.7	138.6	131.5	126.4	124.4	124.9	126.9
35°	148.8	146.7	148.3	141.7	130.0	123.9	116.8	111.2	109.7	110.2	112.2
37.5°	132.0	122.9	128.5	124.9	118.3	110.2	101.0	96.0	93.4	94.9	96.0
40°	121.3	110.2	106.1	109.7	108.7	95.5	87.3	82.3	80.2	80.7	81.7
42.5°	112.2	99.0	89.9	89.4	95.5	83.3	74.6	70.1	67.5	67.5	68.5
45°	103.6	89.4	78.2	69.6	80.2	70.6	62.5	58.4	55.3	55.3	55.8
47.5°	97.0	81.2	68.0	56.9	60.4	57.9	51.3	47.2	44.2	44.2	44.7
50°	90.9	73.1	58.9	47.7	45.2	47.7	41.6	37.1	35.0	34.5	35.5
52.5°	84.3	65.0	50.3	40.6	35.5	36.0	32.5	29.4	26.9	26.9	27.9
55°	77.7	58.4	43.7	34.5	29.4	26.9	25.9	23.9	21.8	21.8	22.8
57.5°	71.1	51.3	37.1	28.4	23.4	21.3	21.3	19.8	18.3	18.3	19.3
60°	65.0	44.2	30.5	23.4	18.3	17.8	18.3	16.8	15.7	15.7	16.8
62.5°	57.9	37.6	24.9	19.3	14.7	14.2	15.7	14.7	13.7	13.7	14.7
65°	49.2	32.0	19.8	14.7	11.2	11.2	13.2	12.2	11.2	11.2	12.2
67.5°	41.6	26.9	15.2	10.7	8.1	8.6	11.2	10.2	9.6	9.6	10.7
70°	34.5	20.8	10.7	6.6	4.6	6.6	8.6	8.6	8.6	8.6	9.6
72.5°	25.9	14.2	6.1	2.5	2.0	4.6	7.1	8.1	7.6	7.6	9.1
75°	16.8	8.1	2.0	0.0	0.0	2.5	5.6	6.6	6.6	6.1	7.6
77.5°	9.6	2.5	0.0	0.0	0.0	0.0	3.6	3.0	2.5	2.0	3.6
80°	2.5	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-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7	3595.7
2.5°	3168.2	3228.1	3312.4	3401.8	3539.3	3648.5	3755.6	3847.5	3883.1	3897.8
5°	2507.7	2595.5	2718.9	2877.3	3125.6	3349.0	3575.4	3803.4	3902.4	3927.2
7.5°	1799.4	1911.6	2068.5	2267.0	2557.9	2847.3	3163.6	3498.2	3651.6	3690.1
10°	1331.8	1468.8	1648.6	1857.8	2135.5	2433.0	2777.8	3160.1	3335.2	3386.5
12.5°	944.9	1130.2	1370.9	1625.2	1865.9	2131.4	2480.2	2901.6	3085.4	3140.8
15°	554.9	734.2	1019.0	1359.7	1667.9	1937.0	2291.4	2769.1	2971.7	3027.6
17.5°	318.3	407.7	623.0	1002.8	1421.1	1793.8	2232.0	2802.1	3040.8	3092.6
20°	243.2	271.6	359.0	645.8	1132.7	1653.2	2232.0	2989.0	3282.9	3359.1
22.5°	212.7	233.6	269.1	385.4	833.7	1502.4	2257.9	3259.1	3643.4	3727.7
25°	188.9	207.7	238.1	289.9	568.7	1323.1	2319.3	3590.6	4067.9	4177.1
27.5°	169.1	186.8	214.3	253.9	388.9	1106.8	2402.0	3979.5	4536.0	4623.3
30°	151.3	168.1	192.9	220.9	300.1	861.6	2472.6	4346.1	4903.6	4997.5
32.5°	134.5	149.8	172.1	192.9	245.7	637.2	2480.2	4636.5	5208.7	5302.2
35°	118.8	132.5	152.8	169.1	203.6	503.2	2361.9	4888.4	5513.9	5637.3
37.5°	103.6	116.8	134.5	146.7	179.2	410.2	2181.2	5169.1	5905.3	6019.6
40°	89.4	101.0	119.3	127.4	169.6	315.3	1984.7	5463.6	6289.2	6393.8
42.5°	76.2	87.3	105.1	120.8	148.8	235.6	1772.5	5739.8	6634.4	6744.1
45°	63.5	75.1	92.9	127.9	123.4	176.2	1545.5	5923.1	6907.1	7026.4
47.5°	51.3	64.5	88.9	121.9	98.5	129.5	1365.8	6096.8	7113.7	7231.5
50°	41.1	54.3	100.0	108.7	80.7	99.0	1290.6	6252.1	7249.3	7362.5
52.5°	33.5	45.7	94.4	83.3	67.5	81.7	1331.3	6504.0	7374.7	7445.8
55°	27.9	36.0	56.9	57.9	57.4	69.6	1381.5	6865.5	7699.1	7732.6
57.5°	24.4	28.9	39.6	44.7	48.2	61.9	1382.5	7384.3	8201.3	8222.1
60°	20.8	25.4	33.0	36.0	41.6	55.3	1332.3	7565.6	8398.8	8467.8
62.5°	18.3	22.3	27.4	30.0	35.0	49.8	1214.5	7303.1	8127.7	8244.9
65°	16.2	20.3	22.8	25.4	31.0	44.7	1020.5	6778.1	7677.8	7800.2
67.5°	14.2	17.8	20.3	22.8	27.9	39.6	751.4	6168.3	7161.5	7263.0
70°	12.7	15.7	18.3	20.3	24.4	33.5	455.9	5234.1	6447.6	6489.7
72.5°	12.2	14.2	16.8	18.3	21.3	29.4	231.0	3846.5	5154.4	5223.0
75°	10.7	12.7	15.2	16.2	18.8	25.4	93.9	2526.4	3735.3	3845.5
77.5°	8.6	11.7	13.7	14.7	16.2	20.8	47.7	1614.6	2621.4	2692.5
80°	3.0	8.6	11.7	12.2	13.7	15.2	31.5	883.9	1520.6	1551.1
82.5°	0.0	5.6	9.1	8.6	9.6	11.7	20.3	420.4	1003.8	1014.9
85°	0.0	2.5	7.1	5.6	4.1	8.1	7.1	91.9	526.5	548.3
87.5°	0.0	0.0	0.5	2.5	2.0	3.0	1.0	0.5	47.7	60.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)