

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: P324422

Luminaire Tested: **GAN-SA8D-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38550 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

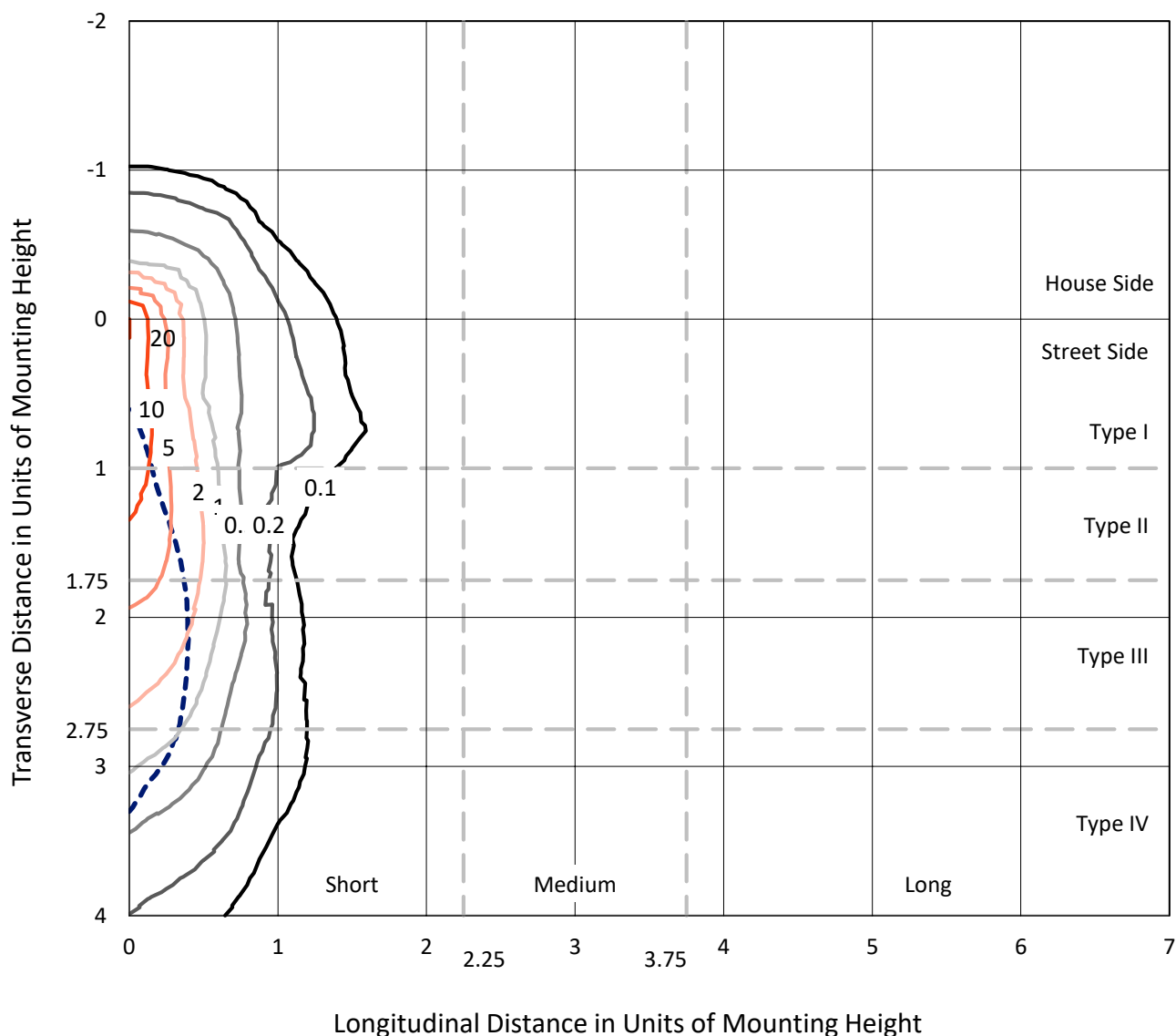
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

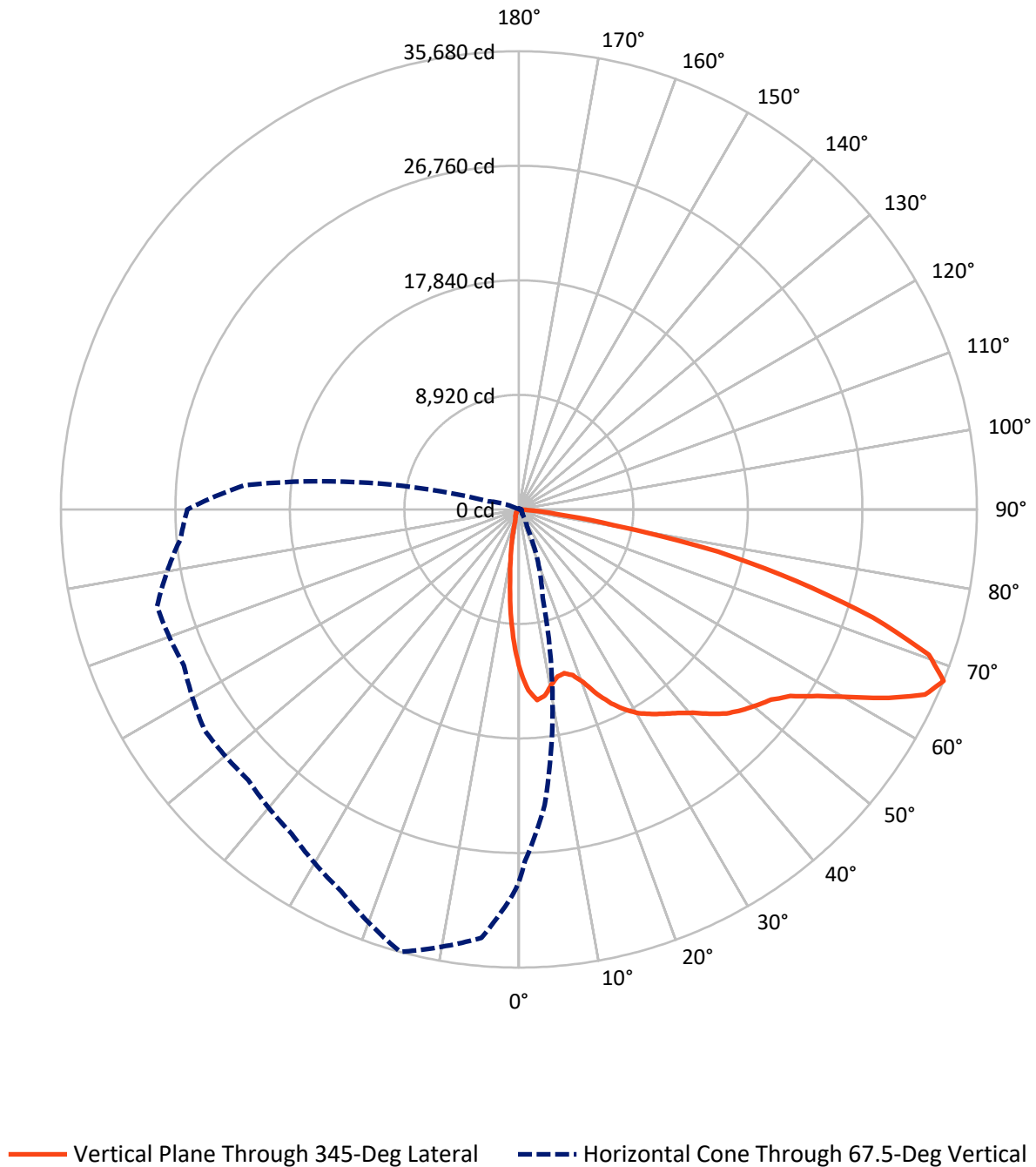
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4665.8	0.0	4665.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	33884.2	0.0	33884.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	38550.0	0.0	38550.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	963.8	2.5
10°-20°	1918.4	5.0
20°-30°	2724.1	7.1
30°-40°	4023.7	10.4
40°-50°	5803.0	15.1
50°-60°	8146.2	21.1
60°-70°	9496.2	24.6
70°-80°	4854.6	12.6
80°-90°	620.0	1.6
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°	38550.0	100.0
0°-180°	38550.0	100.0

Coefficient of Utilization



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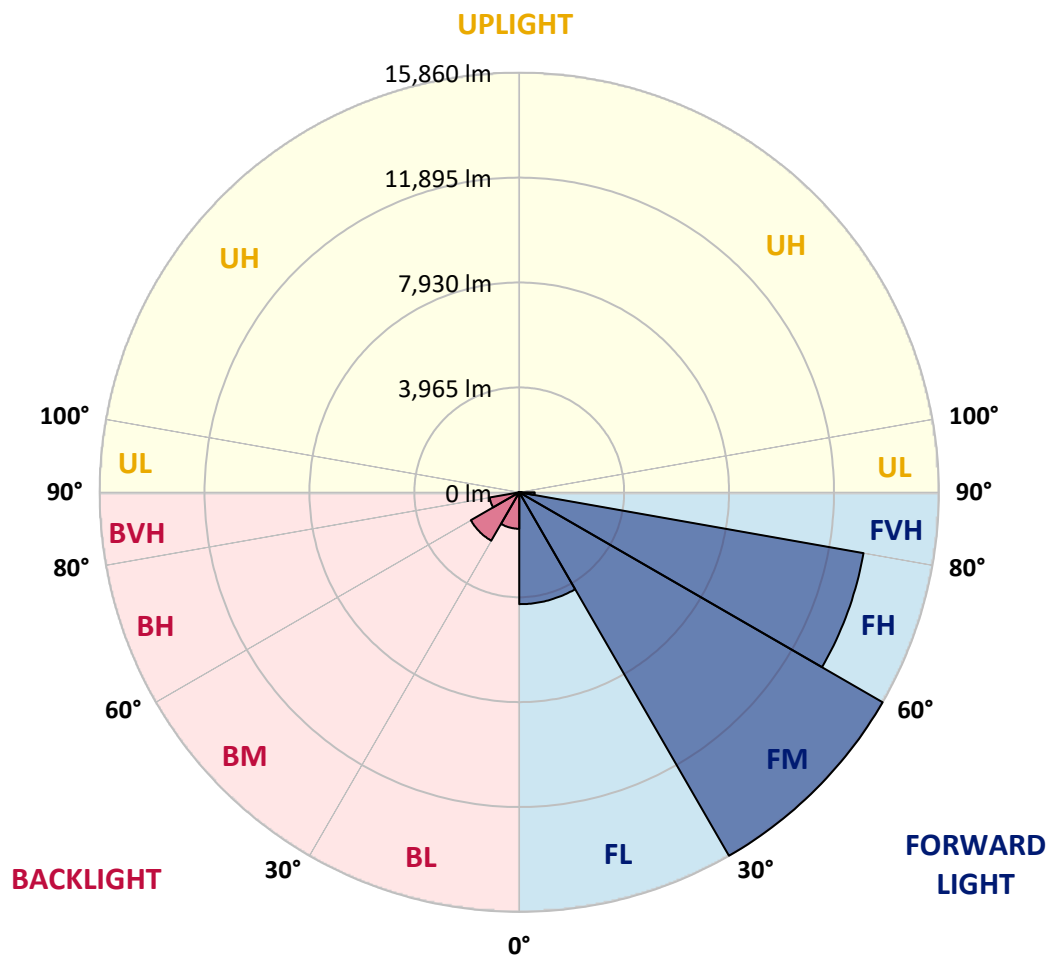
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4228.2	11.0			
FM	(30°-60°)	15860.1	41.1			
FH	(60°-80°)	13213.6	34.3			G5
FVH	(80°-90°)	582.3	1.5			G4/750
BL	(0°-30°)	1378.1	3.6	B3/2500		
BM	(30°-60°)	2112.8	5.5	B2/2500		
BH	(60°-80°)	1137.2	2.9	B3/2500		G3/2500
BVH	(80°-90°)	37.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6
2.5°	13750.2	13644.2	13527.4	13145.7	12791.4	12385.9	12055.4	11825.2	11536.7	11162.3	11067.3
5°	13651.5	13538.3	13171.2	12322.0	11578.7	10855.5	10157.8	9748.8	9241.0	8726.0	8598.2
7.5°	12659.9	12541.2	12011.5	10848.2	9847.4	8802.7	7896.9	7336.2	6762.8	6291.6	6041.4
10°	11628.0	11498.3	10903.0	9491.2	8258.5	7314.3	6649.5	6114.4	5572.0	5068.0	4666.2
12.5°	10917.6	10747.7	10101.2	8501.4	7427.5	6786.5	6165.6	5524.5	4790.4	4249.8	3807.8
15°	10619.9	10426.3	9743.3	8119.7	7133.5	6381.1	5572.0	4784.9	3924.7	3305.6	2900.2
17.5°	10850.0	10598.0	9865.6	8094.1	6764.6	5740.0	4717.3	3793.2	2860.0	2233.6	1945.0
20°	11631.7	11301.1	10371.5	8086.8	6317.1	4978.5	3681.8	2637.2	1884.7	1515.8	1364.2
22.5°	12862.6	12426.1	11098.4	8145.3	5855.1	4178.6	2659.1	1791.6	1415.4	1223.6	1134.1
25°	14349.2	13843.3	12144.8	8351.6	5449.7	3400.6	1932.2	1415.4	1194.4	1053.8	978.9
27.5°	15762.7	15351.8	13467.1	8649.3	5135.5	2772.3	1568.8	1199.9	1020.9	927.8	867.5
30°	17174.5	16657.6	14824.0	9003.6	4757.5	2346.8	1378.9	1093.9	915.0	816.4	778.0
32.5°	18200.8	17771.7	15886.9	9259.3	4353.9	2069.2	1232.7	1000.8	854.7	754.3	697.6
35°	19408.0	18922.2	16798.2	9315.9	4094.5	1893.9	1108.6	900.4	741.5	652.0	591.7
37.5°	20712.0	20107.5	17850.2	9191.7	3891.8	1808.0	1015.4	854.7	692.2	600.9	536.9
40°	22154.8	21471.7	18860.1	9012.8	3692.8	1778.8	944.2	820.0	653.8	560.7	494.9
42.5°	23674.2	22868.8	19734.9	8824.6	3566.8	1678.4	936.9	785.3	624.6	524.1	458.4
45°	24950.8	24134.5	20633.5	8762.6	3477.3	1568.8	967.9	761.6	604.5	494.9	431.0
47.5°	25968.1	25195.5	21553.9	8901.4	3426.1	1468.3	882.1	792.6	593.5	469.4	407.3
50°	27182.5	26307.8	22850.6	9315.9	3351.2	1367.9	798.1	907.7	593.5	452.9	387.2
52.5°	28705.7	27840.0	24297.0	9958.8	3201.5	1229.1	717.7	909.5	599.0	431.0	361.6
55°	30621.5	29993.2	26362.5	10663.7	2962.2	1024.6	620.9	781.7	577.1	390.8	337.9
57.5°	32458.7	31945.5	28245.4	11145.9	2642.6	799.9	540.6	630.1	527.8	343.3	301.3
59°	32960.9	32400.3	28935.8	11167.8	2403.4	697.6	500.4	520.5	516.8	321.4	279.4
60°	32960.9	32365.6	29134.9	11050.9	2229.9	641.0	474.8	463.9	538.8	306.8	266.6
62.5°	32363.7	31527.3	28488.3	10260.1	1819.0	546.1	414.6	383.5	484.0	275.8	235.6
65°	31121.9	29903.7	26285.8	8830.1	1621.7	500.4	358.0	314.1	336.0	242.9	206.4
67.5°	29050.8	27399.9	23109.9	7133.5	1543.2	487.6	308.6	266.6	253.9	208.2	180.8
70°	25403.7	23572.0	19254.6	5608.5	1475.6	482.1	259.3	224.6	204.5	175.3	153.4
72.5°	18489.4	16579.1	13669.8	4384.9	1435.5	493.1	208.2	188.1	168.0	137.0	118.7
75°	10576.1	9325.1	7683.2	2896.5	1223.6	471.2	160.7	157.1	120.5	98.6	82.2
77.5°	5464.3	5298.1	4604.1	1112.2	586.2	206.4	105.9	91.3	71.2	60.3	49.3
80°	2357.7	2332.2	2018.1	321.4	155.2	115.1	60.3	38.4	32.9	25.6	20.1
82.5°	814.5	814.5	717.7	107.8	69.4	56.6	7.3	0.0	0.0	0.0	0.0
85°	164.4	184.5	129.7	0.0	23.7	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6
2.5°	10952.3	10731.3	10716.7	10577.9	10404.4	10325.9	10280.2	10360.6	10459.2	10470.1	10618.1
5°	8501.4	8269.5	8366.2	8119.7	8169.0	8119.7	8039.3	8054.0	8097.8	7960.8	8130.7
7.5°	5970.2	5794.8	5906.2	5840.5	5928.1	5962.8	5913.5	5840.5	5625.0	5599.4	5747.3
10°	4500.0	4300.9	4182.2	4058.0	4085.4	4142.0	4123.8	4070.8	3933.8	3941.1	4083.6
12.5°	3616.1	3393.3	3157.7	2852.7	2777.8	2819.8	2777.8	2746.7	2615.3	2626.2	2752.2
15°	2743.1	2560.5	2313.9	2069.2	1935.9	1948.7	1831.8	1749.6	1667.4	1568.8	1645.5
17.5°	1851.9	1740.5	1667.4	1594.4	1435.5	1398.9	1251.0	1092.1	1030.0	984.4	1017.2
20°	1311.3	1251.0	1221.8	1218.1	1126.8	1081.2	936.9	838.3	807.2	798.1	818.2
22.5°	1095.8	1051.9	1009.9	986.2	940.5	887.6	778.0	728.7	706.8	695.8	710.4
25°	953.3	920.5	876.6	836.4	818.2	761.6	683.0	646.5	631.9	620.9	628.2
27.5°	847.4	818.2	767.0	741.5	726.9	677.6	610.0	580.8	568.0	564.3	562.5
30°	763.4	736.0	688.5	659.3	633.7	589.9	549.7	520.5	507.7	504.1	500.4
32.5°	679.4	657.5	626.4	597.2	569.8	529.6	494.9	471.2	451.1	447.4	445.6
35°	573.5	551.5	535.1	533.3	507.7	469.4	443.8	412.7	396.3	390.8	392.7
37.5°	509.5	480.3	443.8	456.6	449.3	421.9	387.2	356.1	339.7	336.0	336.0
40°	469.4	438.3	396.3	374.4	396.3	390.8	336.0	305.0	288.6	286.7	283.1
42.5°	431.0	400.0	352.5	315.9	326.9	343.3	290.4	261.2	244.7	241.1	235.6
45°	403.6	370.7	317.8	275.8	253.9	288.6	248.4	211.8	202.7	195.4	191.8
47.5°	378.0	347.0	286.7	239.2	202.7	208.2	199.1	173.5	162.5	155.2	153.4
50°	356.1	323.3	259.3	204.5	168.0	153.4	160.7	137.0	127.8	120.5	116.9
52.5°	330.6	299.5	230.1	177.2	140.6	120.5	122.4	107.8	98.6	93.1	91.3
55°	310.5	279.4	206.4	155.2	124.2	98.6	87.7	84.0	78.5	74.9	73.1
57.5°	283.1	253.9	182.6	131.5	105.9	80.4	67.6	67.6	65.7	62.1	60.3
59°	266.6	241.1	168.0	118.7	96.8	69.4	60.3	62.1	60.3	56.6	54.8
60°	253.9	230.1	157.1	109.6	91.3	63.9	54.8	58.4	56.6	53.0	51.1
62.5°	224.6	208.2	135.1	91.3	80.4	51.1	45.7	49.3	49.3	47.5	45.7
65°	197.2	179.0	115.1	76.7	74.9	43.8	36.5	43.8	45.7	42.0	38.4
67.5°	171.7	153.4	100.4	62.1	69.4	34.7	27.4	36.5	49.3	38.4	34.7
70°	146.1	127.8	78.5	49.3	73.1	23.7	21.9	32.9	58.4	42.0	32.9
72.5°	113.2	98.6	54.8	36.5	78.5	16.4	16.4	27.4	65.7	45.7	31.0
75°	78.5	63.9	32.9	21.9	63.9	11.0	11.0	25.6	62.1	42.0	29.2
77.5°	45.7	34.7	11.0	1.8	32.9	0.0	1.8	18.3	43.8	25.6	12.8
80°	16.4	7.3	0.0	0.0	20.1	0.0	0.0	0.0	3.7	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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6
2.5°	10656.4	10903.0	11124.0	11458.2	11854.5	12311.0	12703.7	13125.6	13521.9	13686.2	13799.5
5°	8165.4	8470.3	8826.5	9317.7	9971.6	10777.0	11531.2	12384.1	13300.9	13759.3	14190.3
7.5°	5772.9	6083.4	6525.3	7047.7	7838.4	8797.3	9783.5	10961.4	12203.3	12928.3	13642.4
10°	4151.2	4532.9	4945.6	5659.7	6463.3	7372.7	8388.2	9703.1	11087.4	11891.0	12751.2
12.5°	2825.3	3259.9	3884.5	4684.4	5628.6	6519.9	7402.0	8656.6	10263.8	11060.0	11982.3
15°	1694.8	1935.9	2597.0	3522.9	4680.8	5791.2	6757.3	8015.6	9728.7	10703.9	11662.7
17.5°	1044.6	1156.0	1515.8	2275.6	3491.9	4896.3	6220.4	7798.3	9805.4	10992.5	12018.8
20°	832.8	876.6	991.7	1344.2	2313.9	3910.1	5615.9	7754.4	10431.8	11892.8	12994.1
22.5°	723.2	765.2	841.9	977.1	1455.6	2927.5	5042.4	7794.6	11330.3	13242.5	14528.2
25°	637.4	673.9	747.0	858.4	1066.6	2061.9	4428.8	7973.6	12501.0	14917.2	16283.2
27.5°	569.8	600.9	668.4	770.7	915.0	1439.1	3732.9	8190.9	13889.0	16630.2	17978.0
30°	507.7	535.1	595.4	690.3	794.4	1106.7	2969.6	8338.9	15278.8	17978.0	19188.9
32.5°	454.7	474.8	529.6	610.0	690.3	882.1	2257.3	8315.1	16310.6	19099.4	20060.0
35°	400.0	420.0	467.5	536.9	600.9	728.7	1775.2	7871.3	17209.2	20262.7	21057.2
37.5°	339.7	365.3	410.9	473.0	516.8	641.0	1435.5	7336.2	18120.5	21592.3	22169.4
40°	288.6	314.1	354.3	421.9	449.3	608.2	1103.1	6684.2	19145.0	23078.9	23389.3
42.5°	239.2	263.0	305.0	363.4	423.7	524.1	816.4	5939.1	20129.4	24350.0	24501.5
45°	193.6	217.3	261.2	319.6	452.9	434.7	631.9	5141.0	20923.8	25407.4	25456.7
47.5°	153.4	175.3	221.0	301.3	421.9	347.0	451.1	4514.6	21590.4	26232.9	26103.2
50°	118.7	137.0	184.5	345.2	368.9	286.7	341.5	4306.4	22187.6	26744.2	26408.2
52.5°	93.1	109.6	151.6	323.3	286.7	237.4	286.7	4501.8	23005.8	27167.9	26579.9
55°	74.9	91.3	118.7	184.5	195.4	200.9	244.7	4684.4	24417.5	28161.4	27593.5
57.5°	62.1	78.5	96.8	129.7	147.9	169.8	217.3	4704.5	26081.3	29812.4	29275.5
59°	56.6	71.2	87.7	115.1	129.7	155.2	204.5	4595.0	26667.5	30413.3	30144.8
60°	53.0	67.6	82.2	105.9	120.5	146.1	197.2	4490.9	26693.1	30391.3	30515.5
62.5°	45.7	60.3	73.1	89.5	102.3	124.2	177.2	4105.5	25611.9	29396.0	30292.7
65°	40.2	53.0	65.7	76.7	87.7	111.4	160.7	3402.4	23765.6	27790.7	28767.8
67.5°	36.5	45.7	60.3	67.6	78.5	98.6	142.5	2425.3	21458.9	25827.4	26461.2
70°	32.9	43.8	54.8	62.1	71.2	85.8	122.4	1393.5	18120.5	22952.9	23403.9
72.5°	31.0	42.0	49.3	58.4	63.9	76.7	111.4	655.6	13268.0	18387.1	19565.1
75°	27.4	38.4	45.7	54.8	60.3	69.4	95.0	314.1	8824.6	13306.4	14645.0
77.5°	16.4	31.0	42.0	49.3	53.0	60.3	78.5	180.8	5632.3	9210.0	10848.2
80°	0.0	11.0	31.0	42.0	45.7	51.1	60.3	142.5	3013.4	5261.6	6315.3
82.5°	0.0	0.0	21.9	32.9	31.0	34.7	45.7	89.5	1358.8	3438.9	3875.4
85°	0.0	0.0	7.3	25.6	21.9	16.4	31.0	31.0	297.7	1740.5	2171.5
87.5°	0.0	0.0	0.0	1.8	11.0	7.3	12.8	3.7	1.8	129.7	526.0
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-SA8D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6	12557.6
2.5°	14195.8	14330.9	14559.2	14667.0	14614.0	14389.4	14120.9	13847.0	13686.2	13750.2
5°	15068.7	15764.6	16166.3	16299.7	16076.9	15572.8	14913.5	14044.2	13735.6	13651.5
7.5°	15068.7	16378.2	17207.3	17353.4	16856.7	15868.7	14632.3	13275.3	12824.2	12659.9
10°	14539.1	16321.6	17477.6	17709.6	17015.6	15538.1	13881.7	12333.0	11797.9	11628.0
12.5°	13941.9	15861.4	17079.5	17399.1	16829.3	15209.4	13361.2	11695.6	11065.5	10917.6
15°	13574.8	15295.2	16303.3	16535.3	16294.2	15017.6	13237.0	11503.8	10762.3	10619.9
17.5°	13706.3	14856.9	15220.3	15355.5	15518.0	14950.0	13574.8	11923.9	10985.2	10850.0
20°	14201.3	14394.8	14206.7	14376.6	14814.9	15015.8	14380.2	12939.3	11812.5	11631.7
22.5°	15041.3	14155.6	13627.8	13695.4	14228.6	15233.1	15611.2	14389.4	13089.0	12862.6
25°	16020.2	14349.2	13306.4	13246.1	13794.0	15519.8	16736.1	15967.3	14599.4	14349.2
27.5°	17251.2	14783.8	13240.6	13180.4	13642.4	15788.3	17671.2	17526.9	16190.1	15762.7
30°	18200.8	15211.2	13436.0	13297.2	13794.0	15974.6	18421.8	18851.0	17457.5	17174.5
32.5°	18882.0	15715.3	13753.8	13552.9	14221.3	16296.0	19000.8	20063.7	18630.0	18200.8
35°	19400.7	16263.1	14267.0	13936.4	14809.4	16783.6	19543.2	21354.8	19877.4	19408.0
37.5°	19886.5	17032.0	15068.7	14674.3	15731.7	17568.9	20116.6	22819.5	21272.7	20712.0
40°	20564.1	17903.2	16305.1	15954.5	17282.2	18639.1	20832.5	24346.3	22859.7	22154.8
42.5°	21241.6	18838.2	17570.8	17665.7	19216.3	19939.5	21756.6	25960.8	24426.7	23674.2
45°	21860.7	19802.5	19373.3	19811.6	21011.5	21365.8	22675.3	26894.0	25677.7	24950.8
47.5°	22412.3	21007.8	21164.9	22331.9	23053.3	22657.0	23361.9	27699.4	26609.1	25968.1
50°	23053.3	22567.5	23526.3	25177.3	25403.7	23825.8	23986.5	28652.7	27697.6	27182.5
52.5°	23754.6	24211.2	26141.6	27597.1	27524.1	25095.1	24614.8	29721.1	29189.6	28705.7
55°	24550.9	25538.9	28444.5	29861.7	29799.6	26512.3	25655.8	31041.5	31059.8	30621.5
57.5°	25732.5	26682.1	30007.8	31693.5	31797.6	28148.7	27420.0	32520.8	32750.9	32458.7
59°	26579.9	27423.6	30626.9	32458.7	32882.4	29414.3	28709.3	33379.2	33227.6	32960.9
60°	27208.1	27894.8	30933.8	32858.7	33512.5	30272.6	29660.8	33883.2	33284.2	32960.9
62.5°	28762.3	28921.2	31487.1	33311.6	34237.5	32179.3	32338.2	34741.6	32891.5	32363.7
65°	29487.3	29569.5	31479.8	32500.7	33536.2	33664.1	34767.1	34767.1	31932.7	31121.9
67.5°	29184.2	28787.9	29918.3	29812.4	30846.1	32782.0	35680.3	33492.4	30099.1	29050.8
70°	26718.7	25193.7	24691.5	24737.1	25527.9	28513.9	33872.3	29741.2	26629.2	25403.7
72.5°	22231.5	18573.4	17333.3	18748.7	18955.1	21913.7	28866.4	22397.7	19638.1	18489.4
75°	17881.2	13092.7	11076.5	12570.4	12921.0	16036.7	22330.1	13949.2	11470.9	10576.1
77.5°	12846.1	9398.1	7948.0	7843.9	8296.8	10170.6	15844.9	7020.3	5855.1	5464.3
80°	7297.9	6185.7	6660.5	6284.3	6512.6	6359.2	7528.0	3079.1	2522.1	2357.7
82.5°	4405.0	3656.2	3959.4	3296.5	4171.3	3632.5	2900.2	986.2	856.5	814.5
85°	2865.5	1998.0	1041.0	697.6	1437.3	2321.2	648.3	268.5	206.4	164.4
87.5°	988.0	509.5	51.1	21.9	153.4	432.8	23.7	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

(END OF REPORT)