

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: P324424

Luminaire Tested: **GAN-SA0D-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324424
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-SA0D-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 47610 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

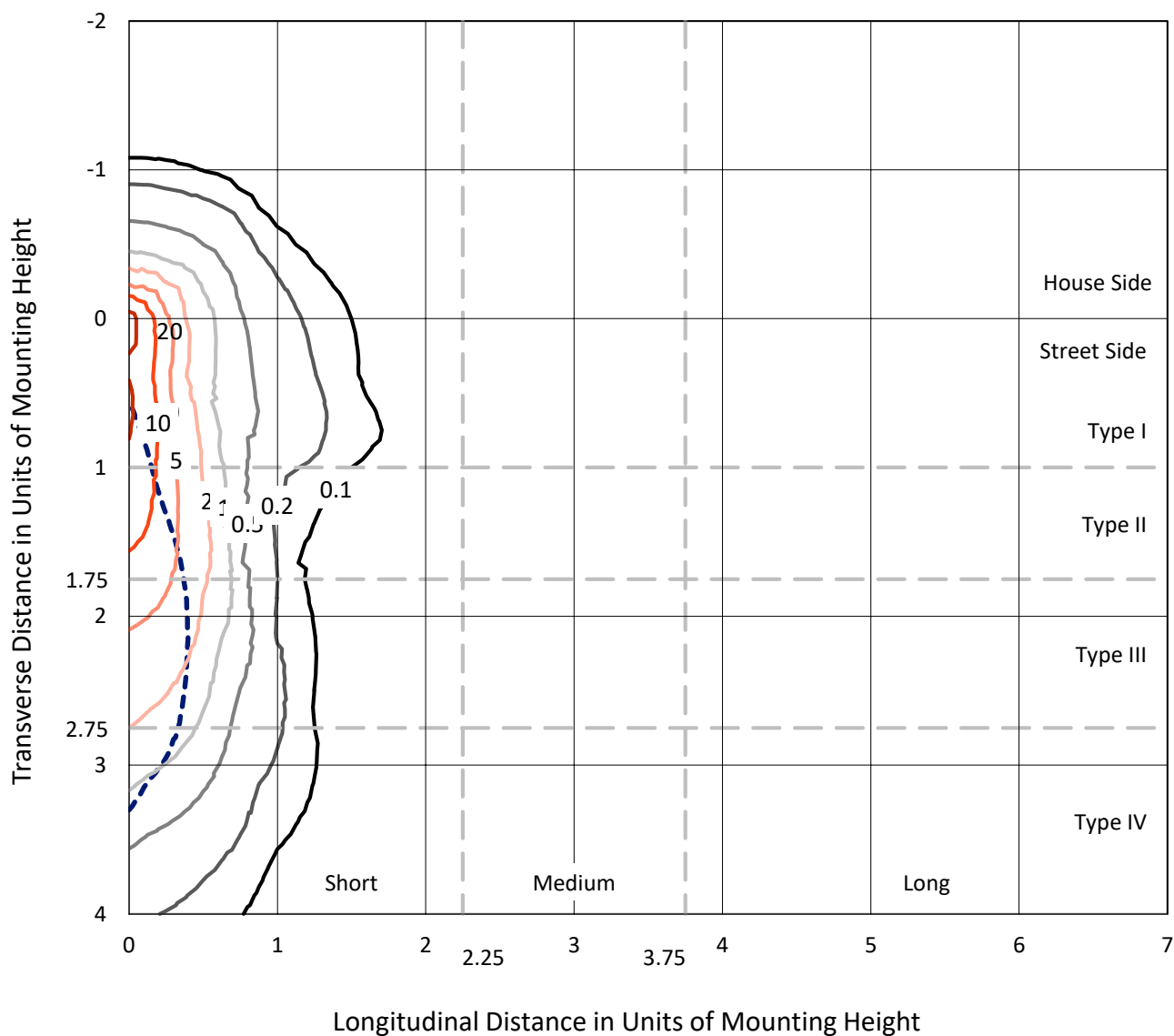
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

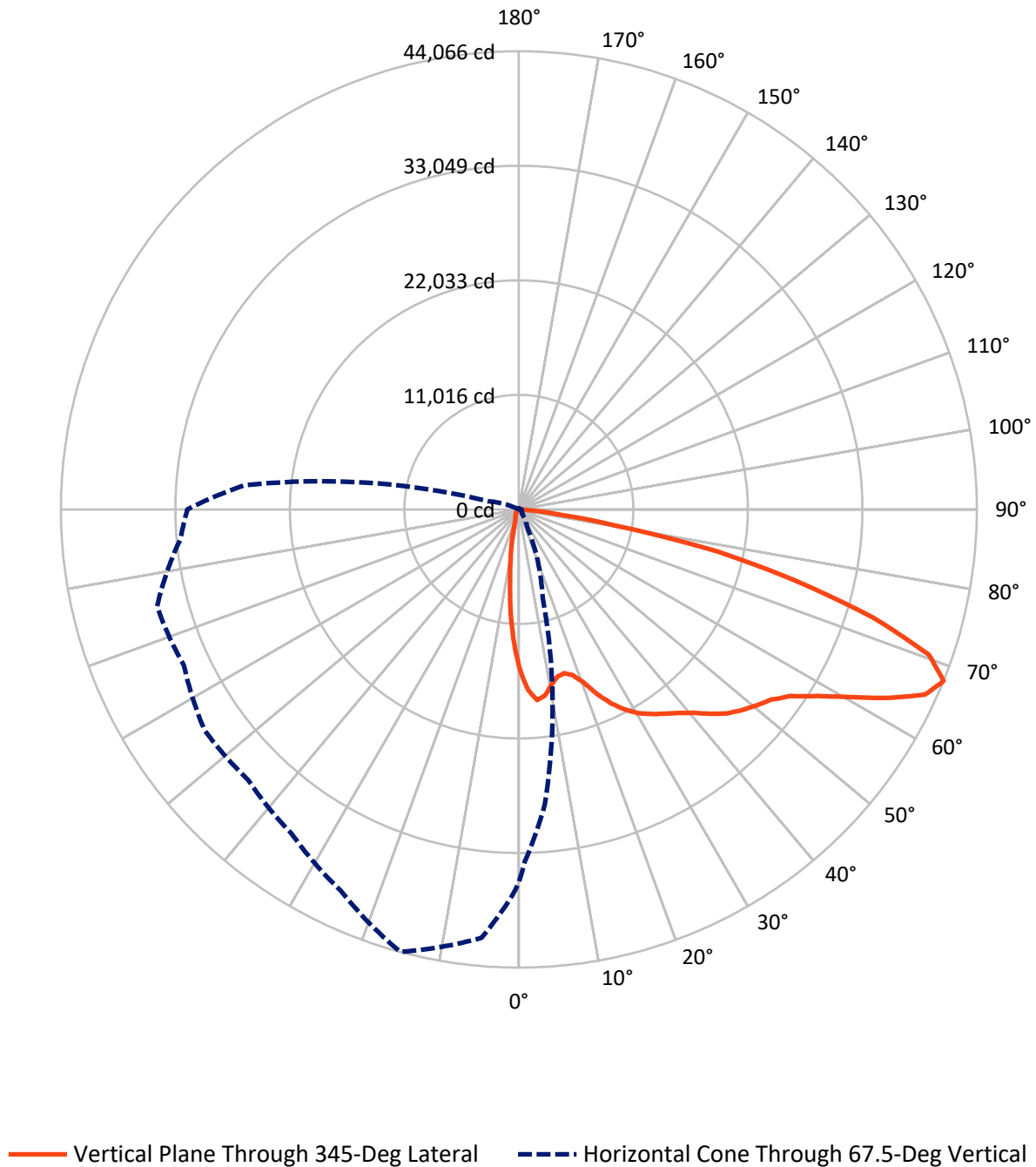
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.8 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	5762.4	0.0	5762.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	41847.6	0.0	41847.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	47610.0	0.0	47610.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1190.3	2.5
10°-20°	2369.2	5.0
20°-30°	3364.3	7.1
30°-40°	4969.3	10.4
40°-50°	7166.8	15.1
50°-60°	10060.8	21.1
60°-70°	11727.9	24.6
70°-80°	5995.6	12.6
80°-90°	765.7	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°	47610.0	100.0
0°-180°	47610.0	100.0

Coefficient of Utilization



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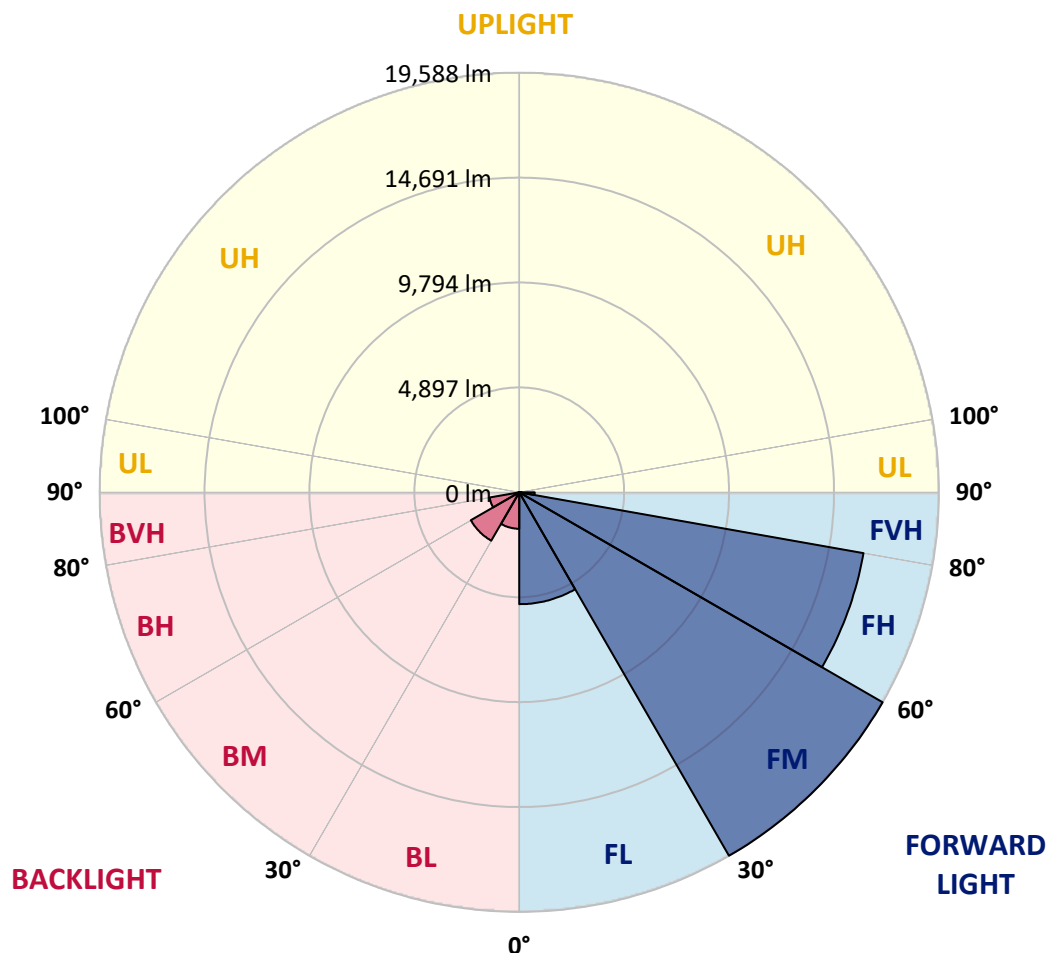
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5221.9	11.0			
FM	(30°-60°)	19587.5	41.1			
FH	(60°-80°)	16319.0	34.3			G5
FVH	(80°-90°)	719.2	1.5			G4/750
BL	(0°-30°)	1702.0	3.6	B3/2500		
BM	(30°-60°)	2609.4	5.5	B3/5000		
BH	(60°-80°)	1404.5	2.9	B3/2500		G3/2500
BVH	(80°-90°)	46.5	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°	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9
2.5°	16981.7	16850.9	16706.5	16235.1	15797.6	15296.9	14888.6	14604.4	14248.0	13785.7	13668.4
5°	16859.9	16720.1	16266.7	15217.9	14299.9	13406.7	12545.1	12039.9	11412.9	10776.8	10618.9
7.5°	15635.2	15488.6	14834.5	13397.7	12161.7	10871.5	9752.8	9060.4	8352.1	7770.2	7461.2
10°	14360.8	14200.7	13465.4	11721.9	10199.4	9033.3	8212.3	7551.4	6881.6	6259.0	5762.8
12.5°	13483.4	13273.7	12475.2	10499.4	9173.1	8381.5	7614.6	6822.9	5916.2	5248.6	4702.7
15°	13115.8	12876.7	12033.1	10028.0	8810.0	7880.7	6881.6	5909.4	4847.1	4082.5	3581.7
17.5°	13400.0	13088.7	12184.3	9996.4	8354.4	7089.1	5826.0	4684.7	3532.1	2758.5	2402.1
20°	14365.3	13957.1	12809.0	9987.4	7801.8	6148.5	4547.1	3257.0	2327.7	1872.1	1684.9
22.5°	15885.5	15346.5	13706.7	10059.6	7231.2	5160.6	3284.0	2212.7	1748.0	1511.2	1400.7
25°	17721.5	17096.7	14999.1	10314.4	6730.4	4199.8	2386.3	1748.0	1475.1	1301.4	1209.0
27.5°	19467.3	18959.8	16632.1	10682.1	6342.5	3423.9	1937.5	1481.9	1260.8	1145.8	1071.4
30°	21210.8	20572.5	18308.0	11119.7	5875.6	2898.3	1702.9	1351.0	1130.0	1008.2	960.8
32.5°	22478.4	21948.3	19620.7	11435.4	5377.1	2555.5	1522.5	1236.0	1055.6	931.5	861.6
35°	23969.3	23369.3	20746.2	11505.3	5056.8	2339.0	1369.1	1112.0	915.7	805.2	730.8
37.5°	25579.7	24833.1	22045.3	11352.0	4806.5	2233.0	1254.1	1055.6	854.8	742.1	663.1
40°	27361.6	26518.0	23292.6	11130.9	4560.6	2196.9	1166.1	1012.7	807.5	692.4	611.2
42.5°	29238.1	28243.5	24373.0	10898.6	4405.0	2072.8	1157.1	969.9	771.4	647.3	566.1
45°	30814.7	29806.5	25482.7	10821.9	4294.5	1937.5	1195.4	940.5	746.6	611.2	532.3
47.5°	32071.1	31117.0	26619.5	10993.3	4231.3	1813.4	1089.4	978.9	733.0	579.7	503.0
50°	33571.0	32490.6	28220.9	11505.3	4138.9	1689.4	985.7	1121.0	733.0	559.4	478.2
52.5°	35452.1	34383.0	30007.3	12299.3	3953.9	1518.0	886.4	1123.2	739.8	532.3	446.6
55°	37818.1	37042.2	32558.3	13169.9	3658.4	1265.3	766.9	965.4	712.7	482.7	417.3
57.5°	40087.1	39453.3	34883.7	13765.4	3263.7	987.9	667.6	778.2	651.8	424.0	372.2
59°	40707.4	40015.0	35736.3	13792.4	2968.2	861.6	618.0	642.8	638.3	397.0	345.1
60°	40707.4	39972.1	35982.1	13648.1	2754.0	791.7	586.4	572.9	665.4	378.9	329.3
62.5°	39969.8	38936.8	35183.7	12671.4	2246.5	674.4	512.0	473.7	597.7	340.6	291.0
65°	38436.1	36931.7	32463.5	10905.4	2002.9	618.0	442.1	387.9	415.0	300.0	254.9
67.5°	35878.4	33839.4	28541.2	8810.0	1905.9	602.2	381.2	329.3	313.5	257.1	223.3
70°	31374.1	29111.8	23779.8	6926.7	1822.5	595.5	320.3	277.4	252.6	216.5	189.5
72.5°	22834.8	20475.5	16882.5	5415.5	1772.8	609.0	257.1	232.3	207.5	169.2	146.6
75°	13061.6	11516.6	9488.9	3577.2	1511.2	581.9	198.5	194.0	148.9	121.8	101.5
77.5°	6748.5	6543.2	5686.1	1373.6	724.0	254.9	130.8	112.8	88.0	74.4	60.9
80°	2911.9	2880.3	2492.3	397.0	191.7	142.1	74.4	47.4	40.6	31.6	24.8
82.5°	1006.0	1006.0	886.4	133.1	85.7	69.9	9.0	0.0	0.0	0.0	0.0
85°	203.0	227.8	160.1	0.0	29.3	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°	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9
2.5°	13526.3	13253.4	13235.3	13063.9	12849.6	12752.6	12696.3	12795.5	12917.3	12930.8	13113.5
5°	10499.4	10212.9	10332.5	10028.0	10088.9	10028.0	9928.7	9946.8	10000.9	9831.8	10041.5
7.5°	7373.3	7156.7	7294.3	7213.1	7321.4	7364.2	7303.3	7213.1	6947.0	6915.4	7098.1
10°	5557.6	5311.7	5165.1	5011.7	5045.6	5115.5	5092.9	5027.5	4858.4	4867.4	5043.3
12.5°	4465.9	4190.7	3899.8	3523.1	3430.6	3482.5	3430.6	3392.3	3229.9	3243.4	3399.0
15°	3387.8	3162.2	2857.7	2555.5	2390.8	2406.6	2262.3	2160.8	2059.3	1937.5	2032.2
17.5°	2287.1	2149.5	2059.3	1969.1	1772.8	1727.7	1545.0	1348.8	1272.1	1215.7	1256.3
20°	1619.5	1545.0	1508.9	1504.4	1391.6	1335.3	1157.1	1035.3	996.9	985.7	1010.5
22.5°	1353.3	1299.2	1247.3	1218.0	1161.6	1096.2	960.8	899.9	872.9	859.3	877.4
25°	1177.4	1136.8	1082.6	1033.0	1010.5	940.5	843.6	798.4	780.4	766.9	775.9
27.5°	1046.6	1010.5	947.3	915.7	897.7	836.8	753.3	717.3	701.5	697.0	694.7
30°	942.8	909.0	850.3	814.2	782.7	728.5	678.9	642.8	627.0	622.5	618.0
32.5°	839.0	812.0	773.6	737.6	703.7	654.1	611.2	581.9	557.1	552.6	550.3
35°	708.2	681.2	660.9	658.6	627.0	579.7	548.1	509.7	489.4	482.7	484.9
37.5°	629.3	593.2	548.1	563.9	554.9	521.0	478.2	439.8	419.5	415.0	415.0
40°	579.7	541.3	489.4	462.4	489.4	482.7	415.0	376.7	356.4	354.1	349.6
42.5°	532.3	494.0	435.3	390.2	403.7	424.0	358.6	322.5	302.2	297.7	291.0
45°	498.5	457.9	392.5	340.6	313.5	356.4	306.7	261.6	250.4	241.3	236.8
47.5°	466.9	428.5	354.1	295.5	250.4	257.1	245.9	214.3	200.7	191.7	189.5
50°	439.8	399.2	320.3	252.6	207.5	189.5	198.5	169.2	157.9	148.9	144.4
52.5°	408.2	369.9	284.2	218.8	173.7	148.9	151.1	133.1	121.8	115.0	112.8
55°	383.4	345.1	254.9	191.7	153.4	121.8	108.3	103.8	97.0	92.5	90.2
57.5°	349.6	313.5	225.6	162.4	130.8	99.2	83.5	83.5	81.2	76.7	74.4
59°	329.3	297.7	207.5	146.6	119.5	85.7	74.4	76.7	74.4	69.9	67.7
60°	313.5	284.2	194.0	135.3	112.8	78.9	67.7	72.2	69.9	65.4	63.2
62.5°	277.4	257.1	166.9	112.8	99.2	63.2	56.4	60.9	60.9	58.6	56.4
65°	243.6	221.0	142.1	94.7	92.5	54.1	45.1	54.1	56.4	51.9	47.4
67.5°	212.0	189.5	124.1	76.7	85.7	42.9	33.8	45.1	60.9	47.4	42.9
70°	180.4	157.9	97.0	60.9	90.2	29.3	27.1	40.6	72.2	51.9	40.6
72.5°	139.8	121.8	67.7	45.1	97.0	20.3	20.3	33.8	81.2	56.4	38.3
75°	97.0	78.9	40.6	27.1	78.9	13.5	13.5	31.6	76.7	51.9	36.1
77.5°	56.4	42.9	13.5	2.3	40.6	0.0	2.3	22.6	54.1	31.6	15.8
80°	20.3	9.0	0.0	0.0	24.8	0.0	0.0	0.0	4.5	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°	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9
2.5°	13160.9	13465.4	13738.3	14151.1	14640.5	15204.4	15689.3	16210.3	16699.8	16902.8	17042.6
5°	10084.4	10461.0	10900.9	11507.6	12315.1	13309.7	14241.3	15294.6	16426.9	16993.0	17525.3
7.5°	7129.7	7513.1	8058.9	8704.0	9680.6	10864.8	12082.8	13537.6	15071.3	15966.7	16848.6
10°	5126.8	5598.2	6107.9	6989.8	7982.2	9105.5	10359.5	11983.5	13693.2	14685.6	15748.0
12.5°	3489.3	4026.1	4797.5	5785.4	6951.5	8052.2	9141.6	10691.1	12676.0	13659.4	14798.4
15°	2093.1	2390.8	3207.3	4350.9	5780.9	7152.2	8345.4	9899.4	12015.1	13219.5	14403.7
17.5°	1290.2	1427.7	1872.1	2810.4	4312.5	6047.0	7682.3	9631.0	12109.8	13575.9	14843.5
20°	1028.5	1082.6	1224.7	1660.1	2857.7	4829.0	6935.7	9576.9	12883.5	14687.9	16047.9
22.5°	893.2	945.1	1039.8	1206.7	1797.6	3615.6	6227.5	9626.5	13993.2	16354.7	17942.6
25°	787.2	832.3	922.5	1060.1	1317.2	2546.5	5469.6	9847.5	15438.9	18423.0	20110.1
27.5°	703.7	742.1	825.5	951.8	1130.0	1777.3	4610.3	10116.0	17153.1	20538.7	22203.2
30°	627.0	660.9	735.3	852.6	981.1	1366.8	3667.5	10298.6	18869.6	22203.2	23698.6
32.5°	561.6	586.4	654.1	753.3	852.6	1089.4	2787.8	10269.3	20143.9	23588.1	24774.5
35°	494.0	518.8	577.4	663.1	742.1	899.9	2192.4	9721.2	21253.6	25024.9	26006.0
37.5°	419.5	451.1	507.5	584.2	638.3	791.7	1772.8	9060.4	22379.1	26666.9	27379.6
40°	356.4	387.9	437.6	521.0	554.9	751.1	1362.3	8255.2	23644.5	28502.8	28886.3
42.5°	295.5	324.8	376.7	448.8	523.3	647.3	1008.2	7334.9	24860.2	30072.7	30259.9
45°	239.1	268.4	322.5	394.7	559.4	536.8	780.4	6349.3	25841.3	31378.6	31439.5
47.5°	189.5	216.5	272.9	372.2	521.0	428.5	557.1	5575.6	26664.6	32398.1	32238.0
50°	146.6	169.2	227.8	426.3	455.6	354.1	421.8	5318.5	27402.2	33029.7	32614.6
52.5°	115.0	135.3	187.2	399.2	354.1	293.2	354.1	5559.8	28412.6	33552.9	32826.7
55°	92.5	112.8	146.6	227.8	241.3	248.1	302.2	5785.4	30156.1	34779.9	34078.5
57.5°	76.7	97.0	119.5	160.1	182.7	209.8	268.4	5810.2	32210.9	36818.9	36155.8
59°	69.9	88.0	108.3	142.1	160.1	191.7	252.6	5674.9	32934.9	37561.0	37229.4
60°	65.4	83.5	101.5	130.8	148.9	180.4	243.6	5546.3	32966.5	37533.9	37687.3
62.5°	56.4	74.4	90.2	110.5	126.3	153.4	218.8	5070.4	31631.2	36304.6	37412.1
65°	49.6	65.4	81.2	94.7	108.3	137.6	198.5	4202.0	29350.9	34322.1	35528.8
67.5°	45.1	56.4	74.4	83.5	97.0	121.8	175.9	2995.3	26502.2	31897.4	32680.0
70°	40.6	54.1	67.7	76.7	88.0	106.0	151.1	1721.0	22379.1	28347.2	28904.3
72.5°	38.3	51.9	60.9	72.2	78.9	94.7	137.6	809.7	16386.3	22708.4	24163.3
75°	33.8	47.4	56.4	67.7	74.4	85.7	117.3	387.9	10898.6	16433.6	18086.9
77.5°	20.3	38.3	51.9	60.9	65.4	74.4	97.0	223.3	6956.0	11374.5	13397.7
80°	0.0	13.5	38.3	51.9	56.4	63.2	74.4	175.9	3721.6	6498.1	7799.5
82.5°	0.0	0.0	27.1	40.6	38.3	42.9	56.4	110.5	1678.1	4247.1	4786.2
85°	0.0	0.0	9.0	31.6	27.1	20.3	38.3	38.3	367.6	2149.5	2681.8
87.5°	0.0	0.0	0.0	2.3	13.5	9.0	15.8	4.5	2.3	160.1	649.6
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-SA0D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9	15508.9
2.5°	17532.1	17699.0	17980.9	18114.0	18048.6	17771.1	17439.6	17101.3	16902.8	16981.7
5°	18610.2	19469.5	19965.8	20130.4	19855.2	19232.7	18418.5	17344.9	16963.7	16859.9
7.5°	18610.2	20227.4	21251.4	21431.8	20818.3	19598.1	18071.1	16395.3	15838.2	15635.2
10°	17956.1	20157.5	21585.2	21871.7	21014.6	19189.9	17144.1	15231.4	14570.6	14360.8
12.5°	17218.5	19589.1	21093.5	21488.2	20784.5	18783.9	16501.3	14444.3	13666.1	13483.4
15°	16765.2	18889.9	20134.9	20421.4	20123.6	18547.0	16347.9	14207.4	13291.7	13115.8
17.5°	16927.6	18348.6	18797.4	18964.3	19165.0	18463.6	16765.2	14726.2	13566.9	13400.0
20°	17538.8	17777.9	17545.6	17755.4	18296.7	18544.8	17759.9	15980.3	14588.6	14365.3
22.5°	18576.4	17482.4	16830.6	16914.1	17572.7	18813.2	19280.1	17771.1	16165.2	15885.5
25°	19785.3	17721.5	16433.6	16359.2	17035.8	19167.3	20669.5	19719.9	18030.5	17721.5
27.5°	21305.5	18258.3	16352.4	16278.0	16848.6	19498.9	21824.3	21646.1	19995.1	19467.3
30°	22478.4	18786.1	16593.8	16422.3	17035.8	19728.9	22751.3	23281.3	21560.4	21210.8
32.5°	23319.7	19408.6	16986.2	16738.1	17563.6	20125.9	23466.3	24779.0	23008.4	22478.4
35°	23960.3	20085.3	17620.0	17211.8	18289.9	20728.1	24136.2	26373.6	24548.9	23969.3
37.5°	24560.2	21034.9	18610.2	18123.0	19428.9	21698.0	24844.4	28182.6	26272.2	25579.7
40°	25397.0	22110.7	20137.2	19704.1	21343.9	23019.7	25728.6	30068.2	28232.2	27361.6
42.5°	26233.8	23265.6	21700.2	21817.5	23732.4	24625.6	26869.9	32062.0	30167.4	29238.1
45°	26998.4	24456.5	23926.4	24467.7	25949.6	26387.2	28004.4	33214.6	31712.4	30814.7
47.5°	27679.6	25945.1	26139.1	27580.3	28471.3	27981.8	28852.5	34209.3	32862.7	32071.1
50°	28471.3	27871.3	29055.4	31094.4	31374.1	29425.4	29623.8	35386.7	34207.0	33571.0
52.5°	29337.4	29901.3	32285.3	34083.0	33992.8	30992.9	30399.7	36706.1	36049.8	35452.1
55°	30320.8	31541.0	35129.5	36879.8	36803.1	32743.2	31685.4	38336.9	38359.4	37818.1
57.5°	31780.1	32953.0	37060.2	39142.1	39270.6	34764.1	33864.2	40163.8	40448.0	40087.1
59°	32826.7	33868.7	37824.9	40087.1	40610.4	36327.2	35456.6	41223.9	41036.7	40707.4
60°	33602.5	34450.6	38203.8	40581.1	41388.6	37387.3	36631.7	41846.4	41106.6	40707.4
62.5°	35522.0	35718.2	38887.2	41140.5	42284.0	39742.0	39938.3	42906.5	40621.7	39969.8
65°	36417.4	36518.9	38878.2	40139.0	41417.9	41575.8	42938.1	42938.1	39437.5	38436.1
67.5°	36043.0	35553.6	36949.7	36818.9	38095.5	40486.4	44065.8	41363.8	37173.0	35878.4
70°	32998.1	31114.7	30494.5	30550.8	31527.5	35215.2	41832.9	36730.9	32887.6	31374.1
72.5°	27456.3	22938.5	21407.0	23155.0	23409.9	27063.8	35650.6	27661.5	24253.5	22834.8
75°	22083.7	16169.7	13679.7	15524.7	15957.7	19805.6	27578.1	17227.6	14166.8	13061.6
77.5°	15865.2	11606.8	9816.0	9687.4	10246.8	12560.9	19568.8	8670.2	7231.2	6748.5
80°	9013.0	7639.4	8225.8	7761.2	8043.1	7853.7	9297.2	3802.8	3114.9	2911.9
82.5°	5440.3	4515.5	4889.9	4071.2	5151.6	4486.2	3581.7	1218.0	1057.8	1006.0
85°	3538.9	2467.5	1285.6	861.6	1775.1	2866.7	800.7	331.6	254.9	203.0
87.5°	1220.2	629.3	63.2	27.1	189.5	534.6	29.3	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)