

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: P324622

Luminaire Tested: **GAN-SA8D-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324622
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-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 33886 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

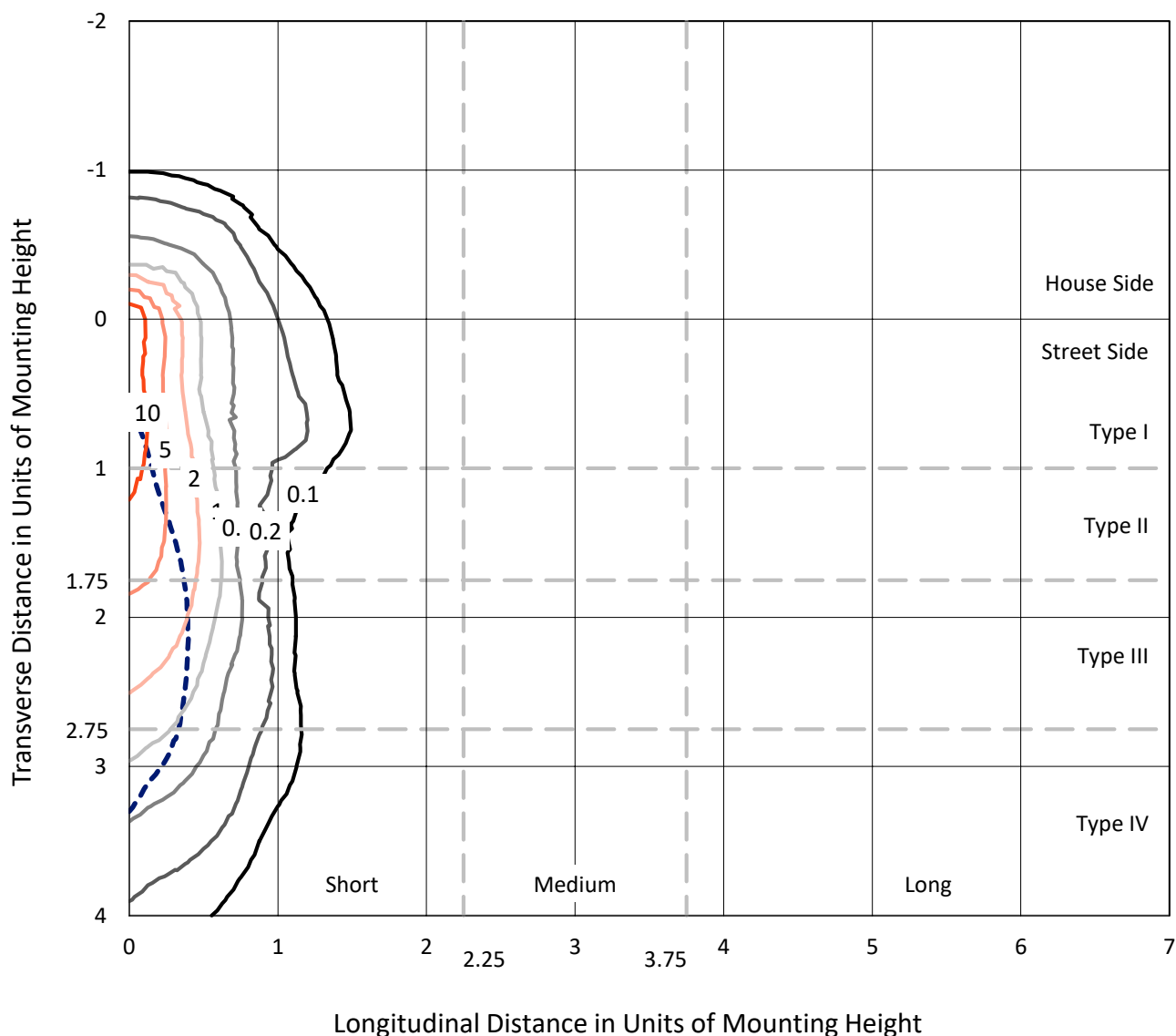
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

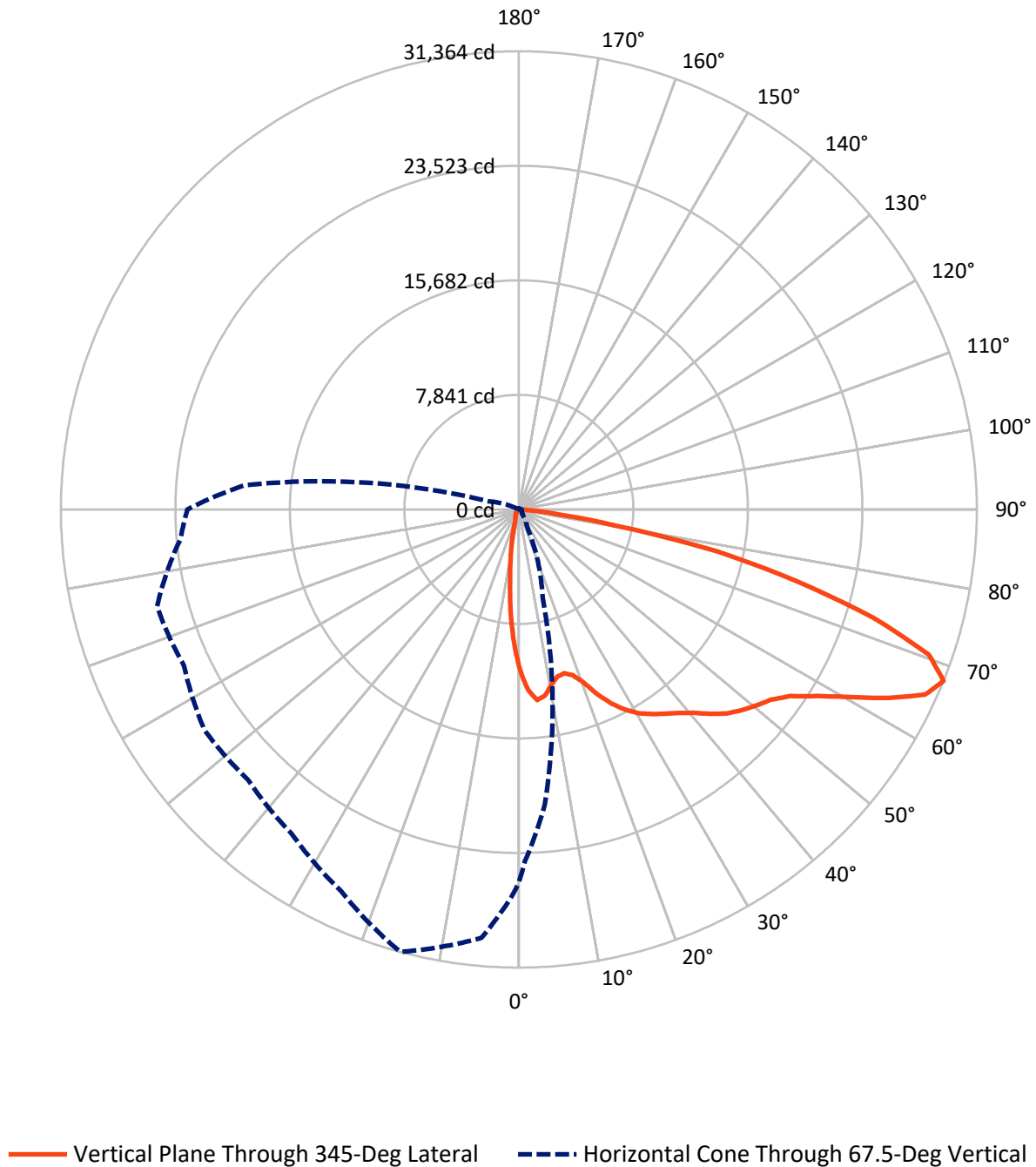
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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	4101.3	0.0	4101.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	29784.7	0.0	29784.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	33886.0	0.0	33886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	847.2	2.5
10°-20°	1686.3	5.0
20°-30°	2394.5	7.1
30°-40°	3536.9	10.4
40°-50°	5100.9	15.1
50°-60°	7160.7	21.1
60°-70°	8347.3	24.6
70°-80°	4267.3	12.6
80°-90°	545.0	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°	33886.0	100.0
0°-180°	33886.0	100.0

Coefficient of Utilization



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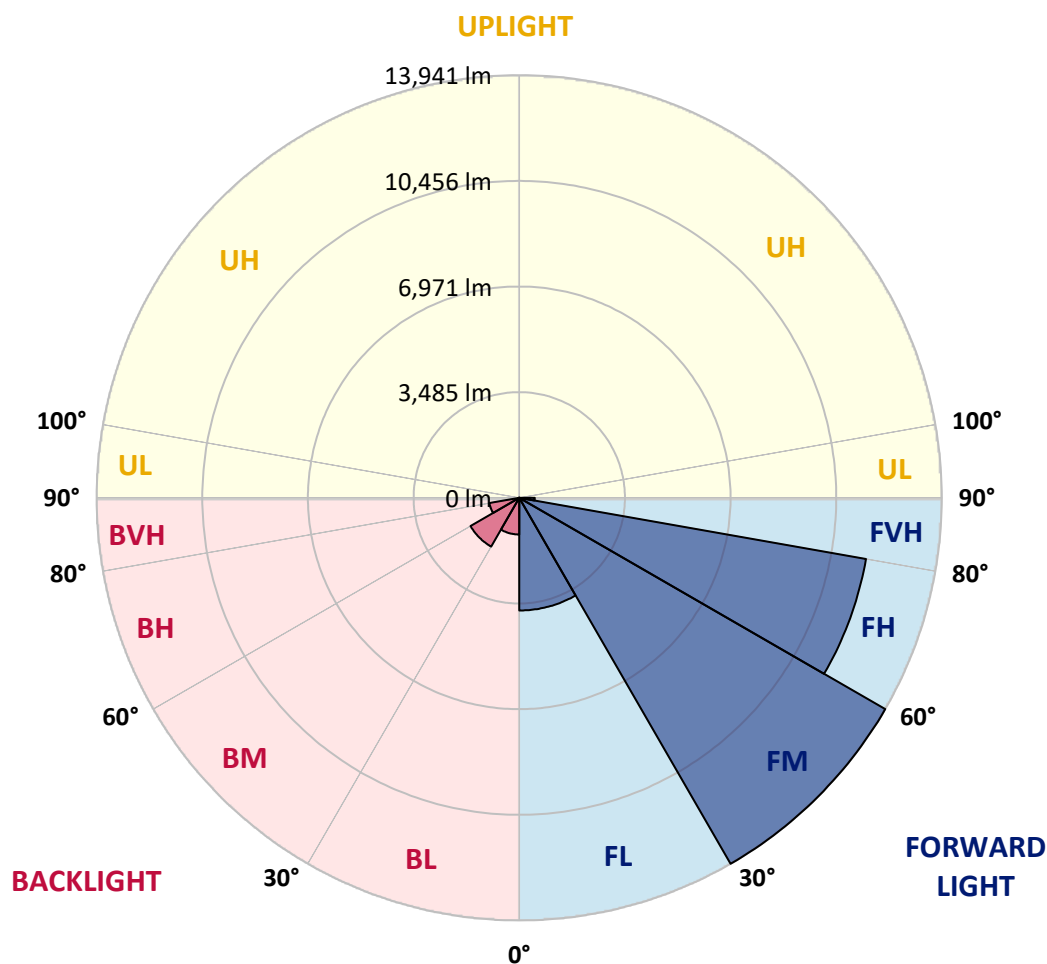
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3716.6	11.0			
FM	(30°-60°)	13941.3	41.1			
FH	(60°-80°)	11614.9	34.3			G4/12000
FVH	(80°-90°)	511.9	1.5			G4/750
BL	(0°-30°)	1211.4	3.6	B3/2500		
BM	(30°-60°)	1857.2	5.5	B2/2500		
BH	(60°-80°)	999.6	2.9	B2/1000		G2/1000
BVH	(80°-90°)	33.1	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3
2.5°	12086.6	11993.5	11890.7	11555.2	11243.8	10887.4	10596.8	10394.6	10140.9	9811.8	9728.3
5°	11999.9	11900.4	11577.7	10831.2	10177.8	9542.1	8928.9	8569.3	8123.0	7670.3	7557.9
7.5°	11128.2	11023.9	10558.3	9535.7	8656.0	7737.7	6941.5	6448.6	5944.6	5530.4	5310.5
10°	10221.2	10107.2	9583.9	8342.9	7259.3	6429.4	5845.0	5374.7	4897.9	4454.8	4101.6
12.5°	9596.7	9447.4	8879.1	7472.8	6528.9	5965.4	5419.6	4856.1	4210.8	3735.6	3347.1
15°	9335.0	9164.9	8564.5	7137.3	6270.4	5609.0	4897.9	4206.0	3449.9	2905.7	2549.3
17.5°	9537.3	9315.8	8672.0	7114.9	5946.2	5045.6	4146.6	3334.3	2514.0	1963.3	1709.7
20°	10224.4	9933.8	9116.7	7108.4	5552.9	4376.2	3236.4	2318.1	1656.7	1332.4	1199.2
22.5°	11306.4	10922.7	9755.6	7159.8	5146.7	3673.0	2337.4	1574.8	1244.1	1075.6	996.9
25°	12613.1	12168.5	10675.5	7341.2	4790.3	2989.1	1698.4	1244.1	1049.9	926.3	860.5
27.5°	13855.7	13494.5	11837.8	7602.9	4514.2	2436.9	1379.0	1054.7	897.4	815.5	762.5
30°	15096.6	14642.3	13030.5	7914.3	4181.9	2062.9	1212.0	961.6	804.3	717.6	683.9
32.5°	15998.8	15621.5	13964.8	8139.1	3827.1	1818.8	1083.6	879.7	751.3	663.0	613.2
35°	17059.9	16632.9	14765.9	8188.8	3599.2	1664.7	974.4	791.4	651.8	573.1	520.1
37.5°	18206.1	17674.8	15690.6	8079.7	3421.0	1589.3	892.6	751.3	608.4	528.2	472.0
40°	19474.4	18874.0	16578.3	7922.3	3246.0	1563.6	830.0	720.8	574.7	492.8	435.0
42.5°	20810.0	20102.0	17347.3	7757.0	3135.2	1475.3	823.5	690.3	549.0	460.7	402.9
45°	21932.1	21214.5	18137.1	7702.4	3056.6	1379.0	850.8	669.4	531.4	435.0	378.9
47.5°	22826.3	22147.2	18946.2	7824.4	3011.6	1290.7	775.4	696.7	521.7	412.6	358.0
50°	23893.8	23124.9	20086.0	8188.8	2945.8	1202.4	701.5	797.9	521.7	398.1	340.3
52.5°	25232.7	24471.8	21357.4	8753.9	2814.2	1080.4	630.9	799.5	526.6	378.9	317.9
55°	26916.7	26364.5	23173.0	9373.6	2603.9	900.6	545.8	687.1	507.3	343.5	297.0
57.5°	28531.7	28080.6	24828.2	9797.4	2322.9	703.1	475.2	553.8	463.9	301.8	264.9
59°	28973.1	28480.3	25435.0	9816.6	2112.6	613.2	439.9	457.5	454.3	282.5	245.6
60°	28973.1	28449.8	25610.0	9713.9	1960.1	563.5	417.4	407.8	473.6	269.7	234.4
62.5°	28448.2	27712.9	25041.7	9018.8	1598.9	480.0	364.4	337.1	425.4	242.4	207.1
65°	27356.6	26285.8	23105.6	7761.8	1425.5	439.9	314.6	276.1	295.4	213.5	181.4
67.5°	25536.1	24084.9	20313.9	6270.4	1356.5	428.6	271.3	234.4	223.1	183.0	158.9
70°	22330.2	20720.1	16925.1	4930.0	1297.1	423.8	228.0	197.5	179.8	154.1	134.8
72.5°	16252.4	14573.3	12016.0	3854.4	1261.8	433.4	183.0	165.3	147.7	120.4	104.3
75°	9296.5	8196.9	6753.7	2546.1	1075.6	414.2	141.3	138.1	106.0	86.7	72.2
77.5°	4803.2	4657.1	4047.1	977.7	515.3	181.4	93.1	80.3	62.6	53.0	43.3
80°	2072.5	2050.0	1773.9	282.5	136.5	101.1	53.0	33.7	28.9	22.5	17.7
82.5°	716.0	716.0	630.9	94.7	61.0	49.8	6.4	0.0	0.0	0.0	0.0
85°	144.5	162.1	114.0	0.0	20.9	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°	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3
2.5°	9627.2	9433.0	9420.1	9298.1	9145.6	9076.6	9036.4	9107.1	9193.8	9203.4	9333.4
5°	7472.8	7269.0	7354.1	7137.3	7180.7	7137.3	7066.7	7079.5	7118.1	6997.7	7147.0
7.5°	5247.8	5093.7	5191.7	5133.9	5210.9	5241.4	5198.1	5133.9	4944.4	4922.0	5052.0
10°	3955.6	3780.6	3676.2	3567.1	3591.1	3640.9	3624.9	3578.3	3457.9	3464.3	3589.5
12.5°	3178.6	2982.7	2775.6	2507.5	2441.7	2478.6	2441.7	2414.4	2298.8	2308.5	2419.2
15°	2411.2	2250.7	2034.0	1818.8	1701.7	1712.9	1610.2	1537.9	1465.7	1379.0	1446.4
17.5°	1627.8	1529.9	1465.7	1401.5	1261.8	1229.7	1099.7	960.0	905.4	865.3	894.2
20°	1152.6	1099.7	1074.0	1070.8	990.5	950.4	823.5	736.8	709.6	701.5	719.2
22.5°	963.2	924.7	887.8	866.9	826.7	780.2	683.9	640.5	621.3	611.6	624.5
25°	838.0	809.1	770.6	735.2	719.2	669.4	600.4	568.3	555.4	545.8	552.2
27.5°	744.9	719.2	674.2	651.8	638.9	595.6	536.2	510.5	499.3	496.0	494.4
30°	671.0	647.0	605.2	579.5	557.1	518.5	483.2	457.5	446.3	443.1	439.9
32.5°	597.2	577.9	550.6	524.9	500.9	465.5	435.0	414.2	396.5	393.3	391.7
35°	504.1	484.8	470.4	468.8	446.3	412.6	390.1	362.8	348.4	343.5	345.1
37.5°	447.9	422.2	390.1	401.3	394.9	370.8	340.3	313.0	298.6	295.4	295.4
40°	412.6	385.3	348.4	329.1	348.4	343.5	295.4	268.1	253.6	252.0	248.8
42.5°	378.9	351.6	309.8	277.7	287.4	301.8	255.2	229.6	215.1	211.9	207.1
45°	354.8	325.9	279.3	242.4	223.1	253.6	218.3	186.2	178.2	171.8	168.6
47.5°	332.3	305.0	252.0	210.3	178.2	183.0	175.0	152.5	142.9	136.5	134.8
50°	313.0	284.1	228.0	179.8	147.7	134.8	141.3	120.4	112.4	106.0	102.7
52.5°	290.6	263.3	202.3	155.7	123.6	106.0	107.6	94.7	86.7	81.9	80.3
55°	272.9	245.6	181.4	136.5	109.2	86.7	77.1	73.8	69.0	65.8	64.2
57.5°	248.8	223.1	160.5	115.6	93.1	70.6	59.4	59.4	57.8	54.6	53.0
59°	234.4	211.9	147.7	104.3	85.1	61.0	53.0	54.6	53.0	49.8	48.2
60°	223.1	202.3	138.1	96.3	80.3	56.2	48.2	51.4	49.8	46.6	44.9
62.5°	197.5	183.0	118.8	80.3	70.6	44.9	40.1	43.3	43.3	41.7	40.1
65°	173.4	157.3	101.1	67.4	65.8	38.5	32.1	38.5	40.1	36.9	33.7
67.5°	150.9	134.8	88.3	54.6	61.0	30.5	24.1	32.1	43.3	33.7	30.5
70°	128.4	112.4	69.0	43.3	64.2	20.9	19.3	28.9	51.4	36.9	28.9
72.5°	99.5	86.7	48.2	32.1	69.0	14.4	14.4	24.1	57.8	40.1	27.3
75°	69.0	56.2	28.9	19.3	56.2	9.6	9.6	22.5	54.6	36.9	25.7
77.5°	40.1	30.5	9.6	1.6	28.9	0.0	1.6	16.1	38.5	22.5	11.2
80°	14.4	6.4	0.0	0.0	17.7	0.0	0.0	0.0	3.2	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°	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3
2.5°	9367.1	9583.9	9778.1	10071.9	10420.2	10821.6	11166.7	11537.6	11885.9	12030.4	12129.9
5°	7177.5	7445.6	7758.6	8190.4	8765.1	9473.1	10136.1	10885.8	11691.7	12094.6	12473.5
7.5°	5074.5	5347.4	5735.9	6195.0	6890.1	7732.9	8599.8	9635.2	10726.9	11364.2	11991.9
10°	3648.9	3984.4	4347.3	4974.9	5681.3	6480.7	7373.3	8529.2	9746.0	10452.4	11208.5
12.5°	2483.5	2865.5	3414.6	4117.7	4947.7	5731.1	6506.4	7609.3	9022.0	9721.9	10532.6
15°	1489.8	1701.7	2282.8	3096.7	4114.5	5090.5	5939.7	7045.8	8551.6	9408.9	10251.7
17.5°	918.3	1016.2	1332.4	2000.3	3069.4	4303.9	5467.8	6854.8	8619.1	9662.5	10564.7
20°	732.0	770.6	871.7	1181.5	2034.0	3437.0	4936.4	6816.3	9169.7	10454.0	11422.0
22.5°	635.7	672.6	740.1	858.9	1279.5	2573.4	4432.3	6851.6	9959.5	11640.3	12770.5
25°	560.3	592.4	656.6	754.5	937.5	1812.4	3892.9	7008.9	10988.5	13112.4	14313.2
27.5°	500.9	528.2	587.6	677.5	804.3	1265.0	3281.3	7199.9	12208.6	14618.2	15802.9
30°	446.3	470.4	523.3	606.8	698.3	972.8	2610.3	7330.0	13430.3	15802.9	16867.3
32.5°	399.7	417.4	465.5	536.2	606.8	775.4	1984.2	7309.1	14337.3	16788.6	17633.0
35°	351.6	369.2	411.0	472.0	528.2	640.5	1560.4	6919.0	15127.1	17811.2	18509.5
37.5°	298.6	321.1	361.2	415.8	454.3	563.5	1261.8	6448.6	15928.2	18979.9	19487.2
40°	253.6	276.1	311.4	370.8	394.9	534.6	969.6	5875.5	16828.8	20286.7	20559.6
42.5°	210.3	231.2	268.1	319.5	372.4	460.7	717.6	5220.6	17694.0	21404.0	21537.2
45°	170.2	191.0	229.6	280.9	398.1	382.1	555.4	4519.0	18392.4	22333.5	22376.8
47.5°	134.8	154.1	194.2	264.9	370.8	305.0	396.5	3968.4	18978.3	23059.1	22945.1
50°	104.3	120.4	162.1	303.4	324.3	252.0	300.2	3785.4	19503.2	23508.6	23213.2
52.5°	81.9	96.3	133.2	284.1	252.0	208.7	252.0	3957.2	20222.4	23881.0	23364.1
55°	65.8	80.3	104.3	162.1	171.8	176.6	215.1	4117.7	21463.4	24754.3	24255.0
57.5°	54.6	69.0	85.1	114.0	130.0	149.3	191.0	4135.3	22925.8	26205.5	25733.6
59°	49.8	62.6	77.1	101.1	114.0	136.5	179.8	4039.0	23441.1	26733.7	26497.7
60°	46.6	59.4	72.2	93.1	106.0	128.4	173.4	3947.5	23463.6	26714.4	26823.6
62.5°	40.1	53.0	64.2	78.7	89.9	109.2	155.7	3608.8	22513.3	25839.5	26627.7
65°	35.3	46.6	57.8	67.4	77.1	97.9	141.3	2990.7	20890.3	24428.4	25287.3
67.5°	32.1	40.1	53.0	59.4	69.0	86.7	125.2	2131.9	18862.7	22702.7	23259.7
70°	28.9	38.5	48.2	54.6	62.6	75.5	107.6	1224.9	15928.2	20175.9	20572.4
72.5°	27.3	36.9	43.3	51.4	56.2	67.4	97.9	576.3	11662.8	16162.5	17198.0
75°	24.1	33.7	40.1	48.2	53.0	61.0	83.5	276.1	7757.0	11696.5	12873.2
77.5°	14.4	27.3	36.9	43.3	46.6	53.0	69.0	158.9	4950.9	8095.7	9535.7
80°	0.0	9.6	27.3	36.9	40.1	44.9	53.0	125.2	2648.8	4625.0	5551.3
82.5°	0.0	0.0	19.3	28.9	27.3	30.5	40.1	78.7	1194.4	3022.9	3406.5
85°	0.0	0.0	6.4	22.5	19.3	14.4	27.3	27.3	261.7	1529.9	1908.7
87.5°	0.0	0.0	0.0	1.6	9.6	6.4	11.2	3.2	1.6	114.0	462.3
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-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3	11038.3
2.5°	12478.3	12597.1	12797.8	12892.5	12845.9	12648.5	12412.5	12171.7	12030.4	12086.6
5°	13245.6	13857.3	14210.4	14327.6	14131.8	13688.7	13109.2	12345.0	12073.7	11999.9
7.5°	13245.6	14396.7	15125.5	15253.9	14817.3	13948.8	12862.0	11669.2	11272.7	11128.2
10°	12780.1	14346.9	15363.1	15567.0	14956.9	13658.2	12202.2	10840.8	10370.5	10221.2
12.5°	12255.1	13942.4	15013.1	15294.1	14793.2	13369.3	11744.7	10280.6	9726.7	9596.7
15°	11932.5	13444.7	14330.8	14534.7	14322.8	13200.7	11635.5	10112.0	9460.3	9335.0
17.5°	12048.1	13059.4	13378.9	13497.7	13640.6	13141.3	11932.5	10481.2	9656.1	9537.3
20°	12483.1	12653.3	12487.9	12637.2	13022.5	13199.1	12640.4	11373.8	10383.3	10224.4
22.5°	13221.6	12443.0	11979.0	12038.4	12507.2	13390.1	13722.4	12648.5	11505.5	11306.4
25°	14082.0	12613.1	11696.5	11643.5	12125.1	13642.2	14711.3	14035.5	12833.1	12613.1
27.5°	15164.0	12995.2	11638.7	11585.7	11991.9	13878.1	15533.2	15406.4	14231.3	13855.7
30°	15998.8	13370.9	11810.5	11688.5	12125.1	14041.9	16193.0	16570.3	15345.4	15096.6
32.5°	16597.6	13813.9	12089.8	11913.2	12500.8	14324.4	16701.9	17636.2	16376.0	15998.8
35°	17053.5	14295.5	12540.9	12250.3	13017.7	14753.1	17178.7	18771.2	17472.5	17059.9
37.5°	17480.5	14971.4	13245.6	12898.9	13828.4	15443.3	17682.8	20058.7	18699.0	18206.1
40°	18076.1	15737.1	14332.5	14024.2	15191.3	16384.1	18312.1	21400.8	20094.0	19474.4
42.5°	18671.7	16559.1	15445.0	15528.4	16891.4	17527.1	19124.4	22819.9	21471.4	20810.0
45°	19215.9	17406.7	17029.4	17414.7	18469.4	18780.8	19931.9	23640.2	22571.0	21932.1
47.5°	19700.7	18466.2	18604.3	19630.1	20264.2	19915.8	20535.5	24348.2	23389.8	22826.3
50°	20264.2	19837.2	20680.0	22131.2	22330.2	20943.2	21084.5	25186.1	24346.6	23893.8
52.5°	20880.6	21282.0	22978.8	24258.3	24194.0	22058.9	21636.7	26125.3	25658.1	25232.7
55°	21580.6	22449.0	25003.1	26248.9	26194.3	23304.7	22551.8	27285.9	27302.0	26916.7
57.5°	22619.2	23454.0	26377.3	27859.0	27950.5	24743.1	24102.5	28586.2	28788.5	28531.7
59°	23364.1	24105.8	26921.5	28531.7	28904.1	25855.6	25235.9	29340.8	29207.5	28973.1
60°	23916.3	24519.9	27191.2	28883.2	29457.9	26610.1	26072.3	29783.8	29257.3	28973.1
62.5°	25282.5	25422.1	27677.6	29281.4	30095.3	28286.0	28425.7	30538.3	28912.1	28448.2
65°	25919.8	25992.0	27671.2	28568.6	29478.8	29591.2	30560.8	30560.8	28069.3	27356.6
67.5°	25653.3	25304.9	26298.6	26205.5	27114.2	28815.8	31363.5	29440.3	26457.6	25536.1
70°	23486.1	22145.6	21704.2	21744.3	22439.4	25064.1	29774.2	26142.9	23407.4	22330.2
72.5°	19541.8	16326.3	15236.3	16480.4	16661.8	19262.4	25374.0	19687.9	17262.2	16252.4
75°	15717.9	11508.7	9736.4	11049.5	11357.8	14096.5	19628.5	12261.6	10083.1	9296.5
77.5°	11291.9	8261.1	6986.4	6894.9	7293.0	8940.1	13927.9	6170.9	5146.7	4803.2
80°	6414.9	5437.3	5854.7	5524.0	5724.6	5589.8	6617.2	2706.6	2217.0	2072.5
82.5°	3872.1	3213.9	3480.4	2897.6	3666.6	3193.0	2549.3	866.9	752.9	716.0
85°	2518.8	1756.2	915.0	613.2	1263.4	2040.4	569.9	236.0	181.4	144.5
87.5°	868.5	447.9	44.9	19.3	134.8	380.5	20.9	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)