

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: P324641

Luminaire Tested: **GAN-SA7B-830-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324641
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-SA7B-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA 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: 23811 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

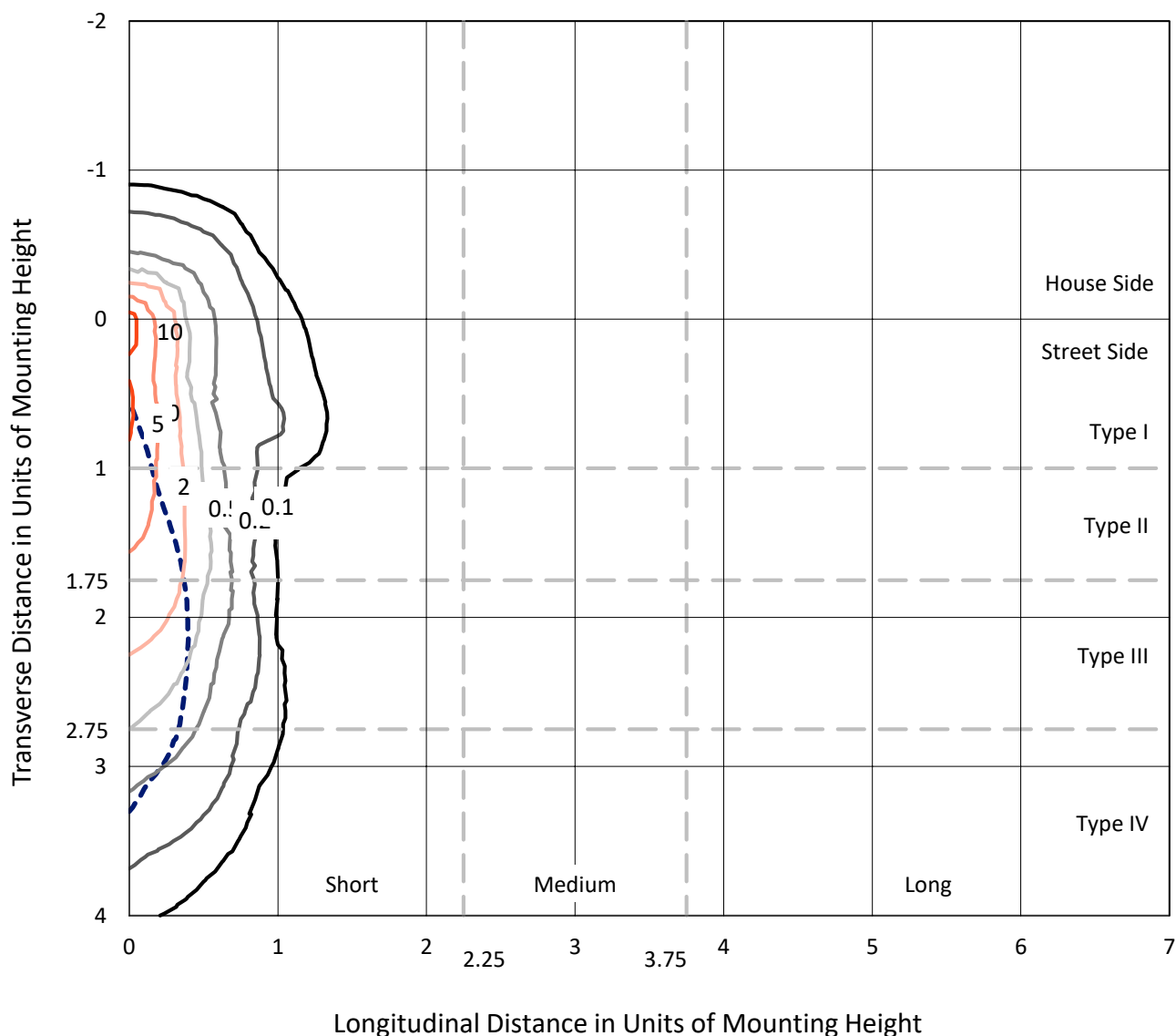
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

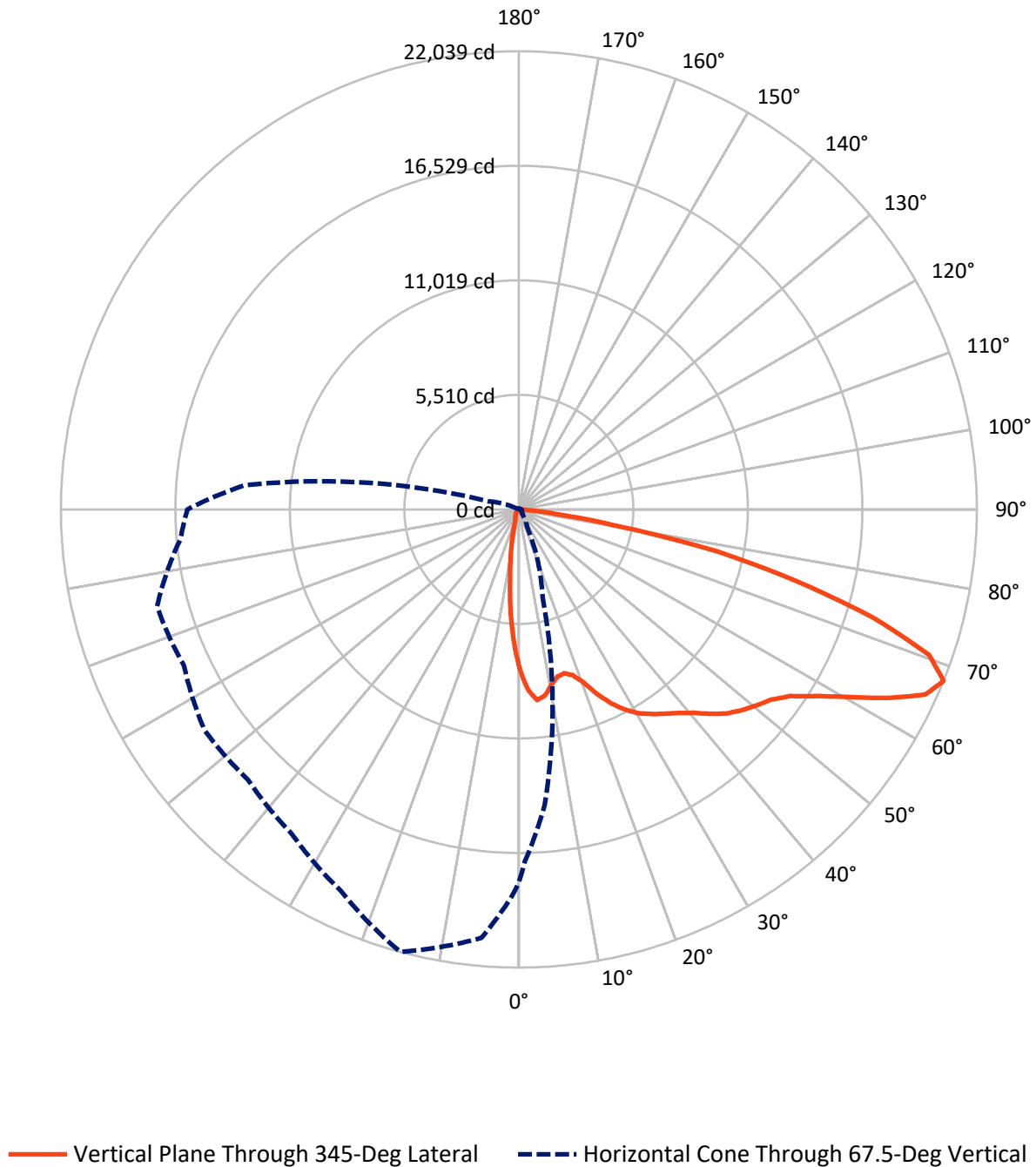
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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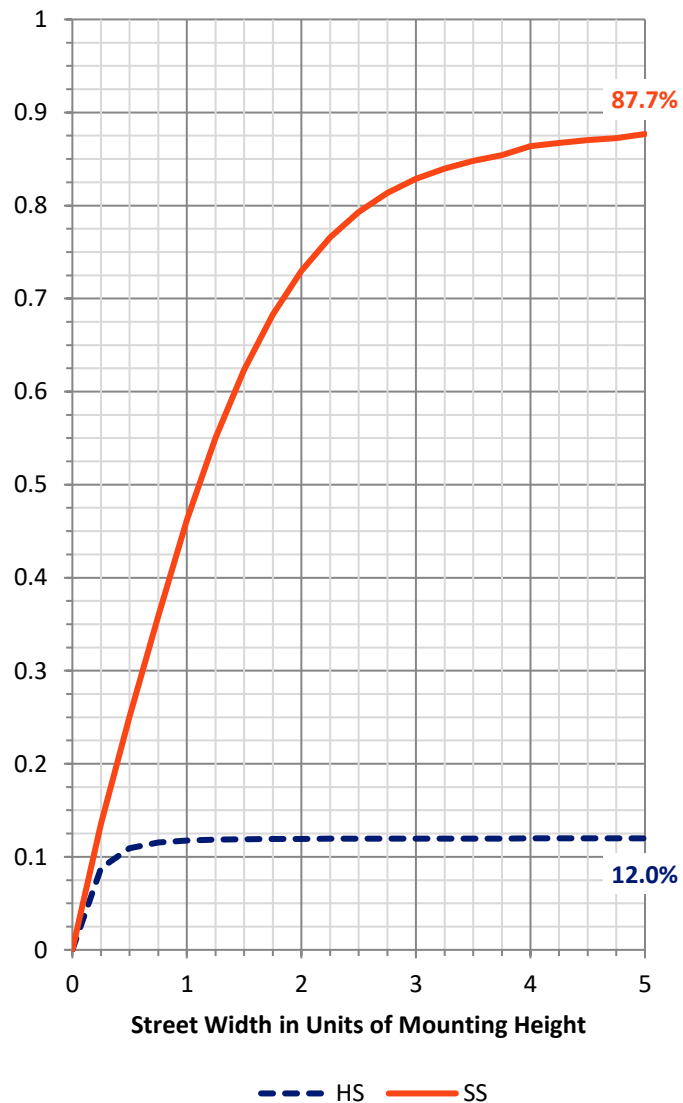
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2881.9	0.0	2881.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	20929.1	0.0	20929.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	23811.0	0.0	23811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.3	2.5
10°-20°	1184.9	5.0
20°-30°	1682.6	7.1
30°-40°	2485.3	10.4
40°-50°	3584.3	15.1
50°-60°	5031.6	21.1
60°-70°	5865.4	24.6
70°-80°	2998.5	12.6
80°-90°	383.0	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°	23811.0	100.0
0°-180°	23811.0	100.0

Coefficient of Utilization



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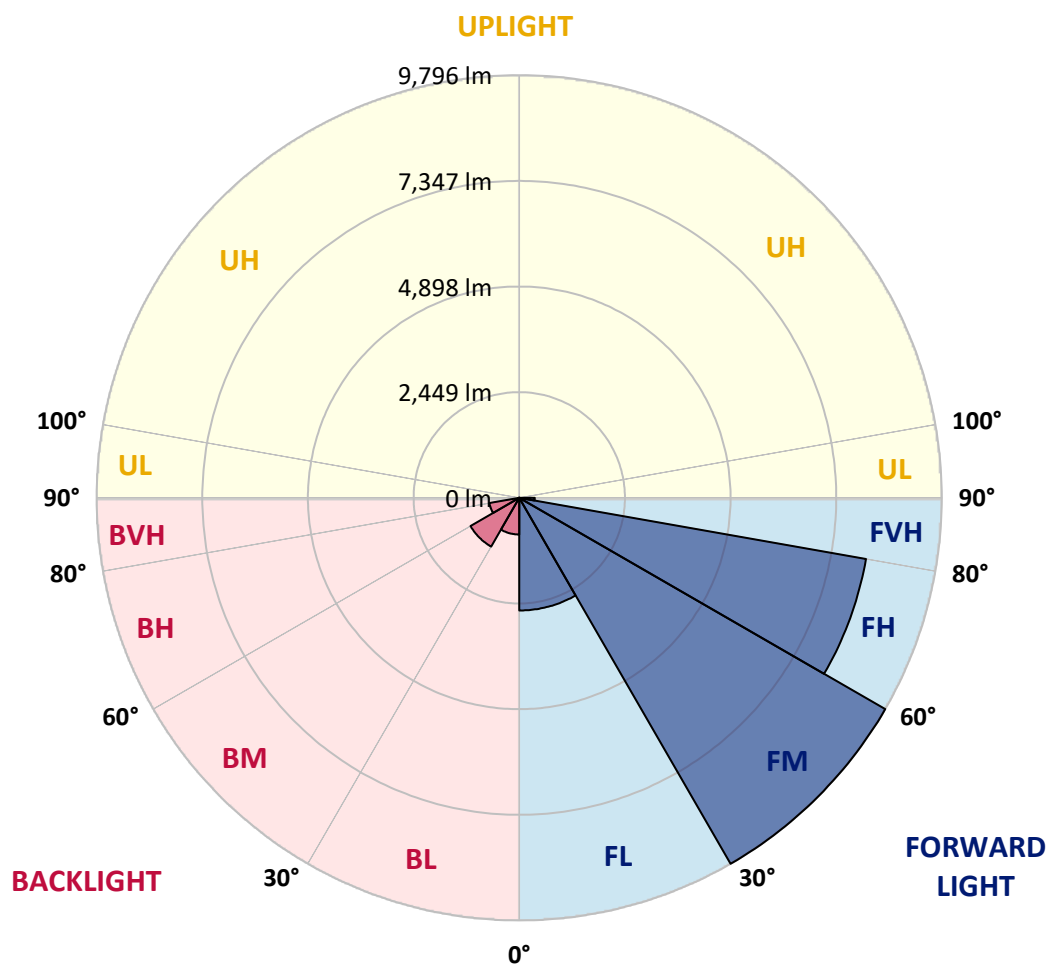
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2611.6	11.0			
FM	(30°-60°)	9796.2	41.1			
FH	(60°-80°)	8161.6	34.3			G4/12000
FVH	(80°-90°)	359.7	1.5			G3/500
BL	(0°-30°)	851.2	3.6	B2/1000		
BM	(30°-60°)	1305.0	5.5	B2/2500		
BH	(60°-80°)	702.4	2.9	B2/1000		G2/1000
BVH	(80°-90°)	23.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4
2.5°	8493.0	8427.6	8355.4	8119.6	7900.8	7650.4	7446.2	7304.0	7125.8	6894.6	6835.9
5°	8432.1	8362.1	8135.4	7610.9	7151.8	6705.1	6274.1	6021.5	5707.9	5389.8	5310.8
7.5°	7819.6	7746.2	7419.1	6700.5	6082.4	5437.1	4877.6	4531.3	4177.1	3886.1	3731.5
10°	7182.2	7102.1	6734.4	5862.4	5101.0	4517.8	4107.2	3776.7	3441.6	3130.3	2882.1
12.5°	6743.4	6638.5	6239.2	5251.0	4587.7	4191.8	3808.3	3412.3	2958.8	2624.9	2352.0
15°	6559.5	6440.0	6018.1	5015.3	4406.1	3941.4	3441.6	2955.5	2424.2	2041.7	1791.3
17.5°	6701.7	6546.0	6093.7	4999.5	4178.3	3545.4	2913.7	2342.9	1766.5	1379.6	1201.4
20°	7184.5	6980.3	6406.1	4995.0	3901.9	3075.0	2274.1	1628.9	1164.1	936.3	842.6
22.5°	7944.8	7675.2	6855.1	5031.0	3616.5	2581.0	1642.4	1106.6	874.2	755.8	700.5
25°	8863.0	8550.5	7501.5	5158.5	3366.1	2100.4	1193.5	874.2	737.7	650.9	604.6
27.5°	9736.1	9482.3	8318.2	5342.4	3172.0	1712.4	969.0	741.1	630.6	573.0	535.8
30°	10608.1	10288.8	9156.3	5561.2	2938.5	1449.5	851.7	675.7	565.1	504.2	480.5
32.5°	11242.0	10976.9	9812.8	5719.2	2689.2	1278.1	761.4	618.2	527.9	465.9	430.9
35°	11987.7	11687.6	10375.7	5754.1	2529.1	1169.8	684.7	556.1	458.0	402.7	365.5
37.5°	12793.1	12419.7	11025.4	5677.4	2403.8	1116.8	627.2	527.9	427.5	371.1	331.6
40°	13684.2	13262.3	11649.2	5566.9	2280.9	1098.7	583.2	506.5	403.8	346.3	305.7
42.5°	14622.8	14125.3	12189.6	5450.7	2203.1	1036.7	578.7	485.1	385.8	323.7	283.1
45°	15411.3	14907.0	12744.6	5412.3	2147.8	969.0	597.9	470.4	373.4	305.7	266.2
47.5°	16039.6	15562.4	13313.1	5498.1	2116.2	906.9	544.8	489.6	366.6	289.9	251.6
50°	16789.7	16249.4	14114.0	5754.1	2069.9	844.9	493.0	560.6	366.6	279.8	239.1
52.5°	17730.5	17195.8	15007.4	6151.2	1977.5	759.2	443.3	561.8	370.0	266.2	223.4
55°	18913.8	18525.8	16283.2	6586.6	1829.7	632.8	383.5	482.8	356.5	241.4	208.7
57.5°	20048.6	19731.6	17446.2	6884.4	1632.3	494.1	333.9	389.2	326.0	212.1	186.1
59°	20358.8	20012.5	17872.6	6898.0	1484.5	430.9	309.1	321.5	319.2	198.5	172.6
60°	20358.8	19991.1	17995.6	6825.8	1377.3	395.9	293.3	286.5	332.8	189.5	164.7
62.5°	19990.0	19473.3	17596.3	6337.3	1123.5	337.3	256.1	236.9	298.9	170.3	145.5
65°	19222.9	18470.5	16235.9	5454.1	1001.7	309.1	221.1	194.0	207.6	150.0	127.5
67.5°	17943.7	16924.0	14274.2	4406.1	953.2	301.2	190.6	164.7	156.8	128.6	111.7
70°	15691.0	14559.6	11892.9	3464.2	911.5	297.8	160.2	138.7	126.3	108.3	94.8
72.5°	11420.3	10240.3	8443.4	2708.4	886.6	304.6	128.6	116.2	103.8	84.6	73.3
75°	6532.5	5759.8	4745.7	1789.1	755.8	291.0	99.3	97.0	74.5	60.9	50.8
77.5°	3375.1	3272.4	2843.8	687.0	362.1	127.5	65.4	56.4	44.0	37.2	30.5
80°	1456.3	1440.5	1246.5	198.5	95.9	71.1	37.2	23.7	20.3	15.8	12.4
82.5°	503.1	503.1	443.3	66.6	42.9	35.0	4.5	0.0	0.0	0.0	0.0
85°	101.5	113.9	80.1	0.0	14.7	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°	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4
2.5°	6764.8	6628.4	6619.3	6533.6	6426.4	6377.9	6349.7	6399.4	6460.3	6467.0	6558.4
5°	5251.0	5107.8	5167.5	5015.3	5045.7	5015.3	4965.6	4974.6	5001.7	4917.1	5022.0
7.5°	3687.6	3579.3	3648.1	3607.5	3661.6	3683.0	3652.6	3607.5	3474.4	3458.6	3549.9
10°	2779.5	2656.5	2583.2	2506.5	2523.4	2558.4	2547.1	2514.4	2429.8	2434.3	2522.3
12.5°	2233.5	2095.9	1950.4	1762.0	1715.7	1741.7	1715.7	1696.6	1615.4	1622.1	1700.0
15°	1694.3	1581.5	1429.2	1278.1	1195.7	1203.6	1131.4	1080.7	1029.9	969.0	1016.4
17.5°	1143.8	1075.0	1029.9	984.8	886.6	864.1	772.7	674.6	636.2	608.0	628.3
20°	809.9	772.7	754.7	752.4	696.0	667.8	578.7	517.8	498.6	493.0	505.4
22.5°	676.8	649.7	623.8	609.1	580.9	548.2	480.5	450.1	436.6	429.8	438.8
25°	588.8	568.5	541.5	516.6	505.4	470.4	421.9	399.3	390.3	383.5	388.0
27.5°	523.4	505.4	473.8	458.0	449.0	418.5	376.8	358.7	350.8	348.6	347.4
30°	471.5	454.6	425.3	407.2	391.4	364.4	339.5	321.5	313.6	311.3	309.1
32.5°	419.6	406.1	386.9	368.9	351.9	327.1	305.7	291.0	278.6	276.4	275.2
35°	354.2	340.7	330.5	329.4	313.6	289.9	274.1	254.9	244.8	241.4	242.5
37.5°	314.7	296.7	274.1	282.0	277.5	260.6	239.1	220.0	209.8	207.6	207.6
40°	289.9	270.7	244.8	231.2	244.8	241.4	207.6	188.4	178.2	177.1	174.8
42.5°	266.2	247.0	217.7	195.2	201.9	212.1	179.4	161.3	151.2	148.9	145.5
45°	249.3	229.0	196.3	170.3	156.8	178.2	153.4	130.9	125.2	120.7	118.4
47.5°	233.5	214.3	177.1	147.8	125.2	128.6	123.0	107.2	100.4	95.9	94.8
50°	220.0	199.7	160.2	126.3	103.8	94.8	99.3	84.6	79.0	74.5	72.2
52.5°	204.2	185.0	142.1	109.4	86.9	74.5	75.6	66.6	60.9	57.5	56.4
55°	191.8	172.6	127.5	95.9	76.7	60.9	54.1	51.9	48.5	46.2	45.1
57.5°	174.8	156.8	112.8	81.2	65.4	49.6	41.7	41.7	40.6	38.4	37.2
59°	164.7	148.9	103.8	73.3	59.8	42.9	37.2	38.4	37.2	35.0	33.8
60°	156.8	142.1	97.0	67.7	56.4	39.5	33.8	36.1	35.0	32.7	31.6
62.5°	138.7	128.6	83.5	56.4	49.6	31.6	28.2	30.5	30.5	29.3	28.2
65°	121.8	110.5	71.1	47.4	46.2	27.1	22.6	27.1	28.2	25.9	23.7
67.5°	106.0	94.8	62.0	38.4	42.9	21.4	16.9	22.6	30.5	23.7	21.4
70°	90.2	79.0	48.5	30.5	45.1	14.7	13.5	20.3	36.1	25.9	20.3
72.5°	69.9	60.9	33.8	22.6	48.5	10.2	10.2	16.9	40.6	28.2	19.2
75°	48.5	39.5	20.3	13.5	39.5	6.8	6.8	15.8	38.4	25.9	18.0
77.5°	28.2	21.4	6.8	1.1	20.3	0.0	1.1	11.3	27.1	15.8	7.9
80°	10.2	4.5	0.0	0.0	12.4	0.0	0.0	0.0	2.3	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°	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4
2.5°	6582.1	6734.4	6870.9	7077.3	7322.1	7604.1	7846.6	8107.2	8352.0	8453.5	8523.5
5°	5043.5	5231.8	5451.8	5755.2	6159.1	6656.6	7122.4	7649.2	8215.5	8498.6	8764.9
7.5°	3565.7	3757.5	4030.5	4353.1	4841.5	5433.8	6042.9	6770.5	7537.5	7985.4	8426.4
10°	2564.0	2799.8	3054.7	3495.8	3992.1	4553.9	5181.1	5993.3	6848.3	7344.7	7876.0
12.5°	1745.1	2013.5	2399.3	2893.4	3476.6	4027.1	4571.9	5346.9	6339.6	6831.4	7401.1
15°	1046.8	1195.7	1604.1	2176.0	2891.2	3577.0	4173.7	4951.0	6009.1	6611.4	7203.7
17.5°	645.2	714.0	936.3	1405.5	2156.8	3024.3	3842.1	4816.7	6056.4	6789.7	7423.6
20°	514.4	541.5	612.5	830.2	1429.2	2415.1	3468.7	4789.6	6443.4	7345.8	8026.0
22.5°	446.7	472.6	520.0	603.5	899.0	1808.2	3114.5	4814.5	6998.3	8179.4	8973.5
25°	393.7	416.2	461.4	530.2	658.8	1273.6	2735.5	4925.0	7721.4	9213.8	10057.6
27.5°	351.9	371.1	412.9	476.0	565.1	888.9	2305.7	5059.3	8578.7	10271.9	11104.4
30°	313.6	330.5	367.7	426.4	490.7	683.6	1834.2	5150.6	9437.2	11104.4	11852.3
32.5°	280.9	293.3	327.1	376.8	426.4	544.8	1394.3	5136.0	10074.5	11797.0	12390.4
35°	247.0	259.4	288.8	331.6	371.1	450.1	1096.5	4861.8	10629.5	12515.6	13006.3
37.5°	209.8	225.6	253.8	292.2	319.2	395.9	886.6	4531.3	11192.4	13336.8	13693.3
40°	178.2	194.0	218.8	260.6	277.5	375.6	681.3	4128.6	11825.2	14255.0	14446.8
42.5°	147.8	162.4	188.4	224.5	261.7	323.7	504.2	3668.4	12433.2	15040.1	15133.8
45°	119.6	134.2	161.3	197.4	279.8	268.5	390.3	3175.4	12923.9	15693.3	15723.7
47.5°	94.8	108.3	136.5	186.1	260.6	214.3	278.6	2788.5	13335.7	16203.1	16123.0
50°	73.3	84.6	113.9	213.2	227.9	177.1	210.9	2659.9	13704.5	16519.0	16311.4
52.5°	57.5	67.7	93.6	199.7	177.1	146.6	177.1	2780.6	14209.9	16780.7	16417.5
55°	46.2	56.4	73.3	113.9	120.7	124.1	151.2	2893.4	15081.9	17394.3	17043.5
57.5°	38.4	48.5	59.8	80.1	91.4	104.9	134.2	2905.8	16109.5	18414.1	18082.4
59°	35.0	44.0	54.1	71.1	80.1	95.9	126.3	2838.1	16471.6	18785.2	18619.4
60°	32.7	41.7	50.8	65.4	74.5	90.2	121.8	2773.8	16487.4	18771.7	18848.4
62.5°	28.2	37.2	45.1	55.3	63.2	76.7	109.4	2535.8	15819.6	18156.9	18710.8
65°	24.8	32.7	40.6	47.4	54.1	68.8	99.3	2101.5	14679.2	17165.4	17768.9
67.5°	22.6	28.2	37.2	41.7	48.5	60.9	88.0	1498.0	13254.4	15952.7	16344.1
70°	20.3	27.1	33.8	38.4	44.0	53.0	75.6	860.7	11192.4	14177.2	14455.8
72.5°	19.2	25.9	30.5	36.1	39.5	47.4	68.8	405.0	8195.2	11357.1	12084.7
75°	16.9	23.7	28.2	33.8	37.2	42.9	58.7	194.0	5450.7	8218.9	9045.7
77.5°	10.2	19.2	25.9	30.5	32.7	37.2	48.5	111.7	3478.9	5688.7	6700.5
80°	0.0	6.8	19.2	25.9	28.2	31.6	37.2	88.0	1861.3	3249.9	3900.8
82.5°	0.0	0.0	13.5	20.3	19.2	21.4	28.2	55.3	839.3	2124.1	2393.7
85°	0.0	0.0	4.5	15.8	13.5	10.2	19.2	19.2	183.9	1075.0	1341.2
87.5°	0.0	0.0	0.0	1.1	6.8	4.5	7.9	2.3	1.1	80.1	324.9
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-SA7B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4	7756.4
2.5°	8768.2	8851.7	8992.7	9059.3	9026.6	8887.8	8722.0	8552.8	8453.5	8493.0
5°	9307.4	9737.2	9985.4	10067.7	9930.1	9618.8	9211.6	8674.6	8484.0	8432.1
7.5°	9307.4	10116.2	10628.4	10718.6	10411.8	9801.5	9037.8	8199.7	7921.1	7819.6
10°	8980.3	10081.3	10795.3	10938.6	10509.9	9597.3	8574.2	7617.6	7287.1	7182.2
12.5°	8611.4	9797.0	10549.4	10746.8	10394.9	9394.3	8252.7	7224.0	6834.8	6743.4
15°	8384.7	9447.3	10070.0	10213.3	10064.4	9275.9	8176.0	7105.5	6647.5	6559.5
17.5°	8465.9	9176.6	9401.1	9484.5	9584.9	9234.1	8384.7	7365.0	6785.1	6701.7
20°	8771.6	8891.2	8775.0	8879.9	9150.6	9274.7	8882.2	7992.1	7296.1	7184.5
22.5°	9290.5	8743.4	8417.4	8459.2	8788.5	9409.0	9642.5	8887.8	8084.6	7944.8
25°	9895.1	8863.0	8218.9	8181.7	8520.1	9586.1	10337.3	9862.4	9017.5	8863.0
27.5°	10655.4	9131.5	8178.3	8141.1	8426.4	9751.9	10914.9	10825.8	10000.1	9736.1
30°	11242.0	9395.4	8299.0	8213.2	8520.1	9866.9	11378.5	11643.6	10782.9	10608.1
32.5°	11662.8	9706.8	8495.3	8371.2	8784.0	10065.5	11736.1	12392.6	11507.1	11242.0
35°	11983.1	10045.2	8812.2	8608.1	9147.3	10366.7	12071.1	13190.1	12277.6	11987.7
37.5°	12283.2	10520.1	9307.4	9063.8	9716.9	10851.7	12425.3	14094.8	13139.4	12793.1
40°	12701.7	11058.2	10071.1	9854.5	10674.6	11512.8	12867.5	15037.9	14119.7	13684.2
42.5°	13120.2	11635.7	10852.9	10911.5	11869.2	12315.9	13438.3	16035.1	15087.5	14622.8
45°	13502.6	12231.3	11966.2	12237.0	12978.1	13196.9	14005.7	16611.5	15860.2	15411.3
47.5°	13843.3	12975.8	13072.8	13793.6	14239.2	13994.4	14429.9	17109.0	16435.5	16039.6
50°	14239.2	13939.2	14531.4	15551.1	15691.0	14716.4	14815.7	17697.8	17107.8	16789.7
52.5°	14672.4	14954.4	16146.7	17045.8	17000.7	15500.4	15203.7	18357.7	18029.4	17730.5
55°	15164.2	15774.5	17569.2	18444.5	18406.2	16375.7	15846.7	19173.3	19184.5	18913.8
57.5°	15894.1	16480.6	18534.8	19576.0	19640.3	17386.4	16936.4	20087.0	20229.1	20048.6
59°	16417.5	16938.6	18917.2	20048.6	20310.3	18168.2	17732.8	20617.2	20523.5	20358.8
60°	16805.5	17229.7	19106.7	20295.7	20699.5	18698.4	18320.5	20928.5	20558.5	20358.8
62.5°	17765.5	17863.6	19448.5	20575.4	21147.3	19876.0	19974.2	21458.7	20316.0	19990.0
65°	18213.3	18264.1	19444.0	20074.6	20714.2	20793.1	21474.5	21474.5	19723.7	19222.9
67.5°	18026.0	17781.3	18479.5	18414.1	19052.6	20248.3	22038.5	20687.1	18591.2	17943.7
70°	16503.2	15561.3	15251.1	15279.3	15767.7	17612.1	20921.7	18370.1	16447.9	15691.0
72.5°	13731.6	11472.1	10706.2	11580.4	11707.9	13535.3	17829.8	13834.3	12129.8	11420.3
75°	11044.6	8086.9	6841.6	7764.3	7980.9	9905.3	13792.5	8616.0	7085.2	6532.5
77.5°	7934.6	5804.9	4909.2	4844.9	5124.7	6282.0	9786.9	4336.2	3616.5	3375.1
80°	4507.6	3820.7	4114.0	3881.6	4022.6	3927.8	4649.8	1901.9	1557.8	1456.3
82.5°	2720.8	2258.3	2445.6	2036.1	2576.4	2243.7	1791.3	609.1	529.0	503.1
85°	1769.9	1234.1	643.0	430.9	887.8	1433.7	400.5	165.8	127.5	101.5
87.5°	610.3	314.7	31.6	13.5	94.8	267.3	14.7	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)