

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: P324648

Luminaire Tested: **GAN-SA4C-830-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324648
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-SA4C-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA 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: 16808 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

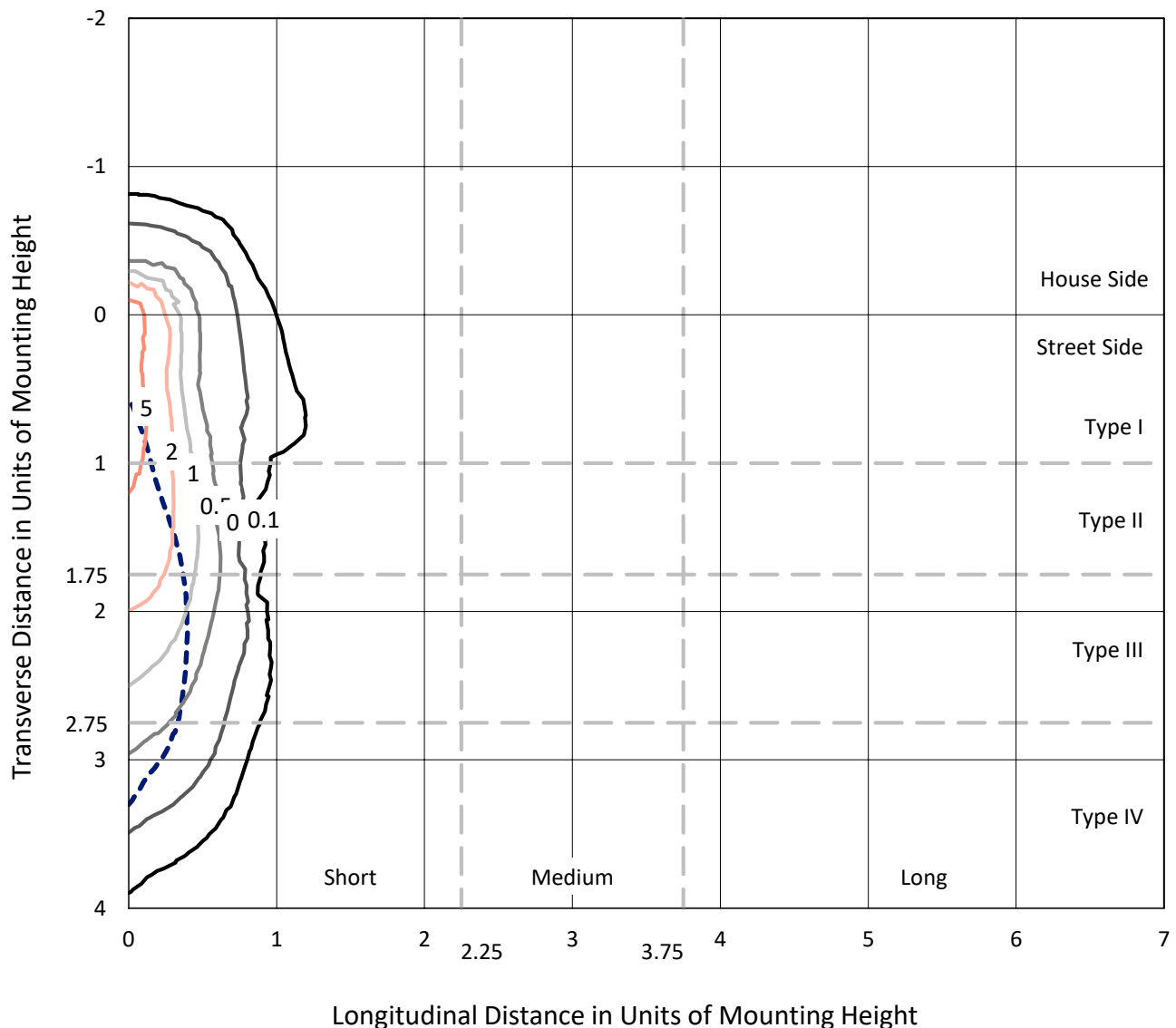
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

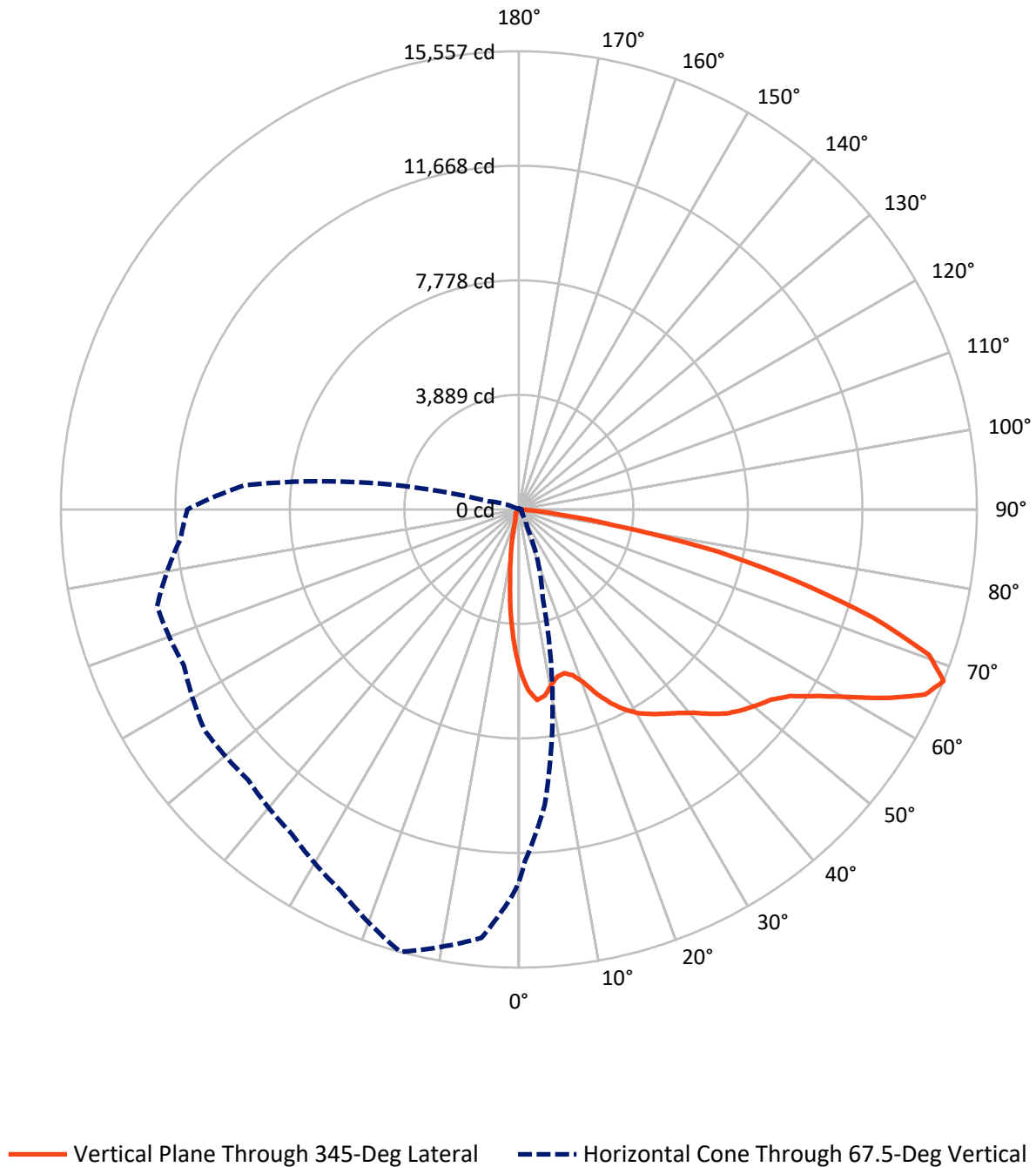
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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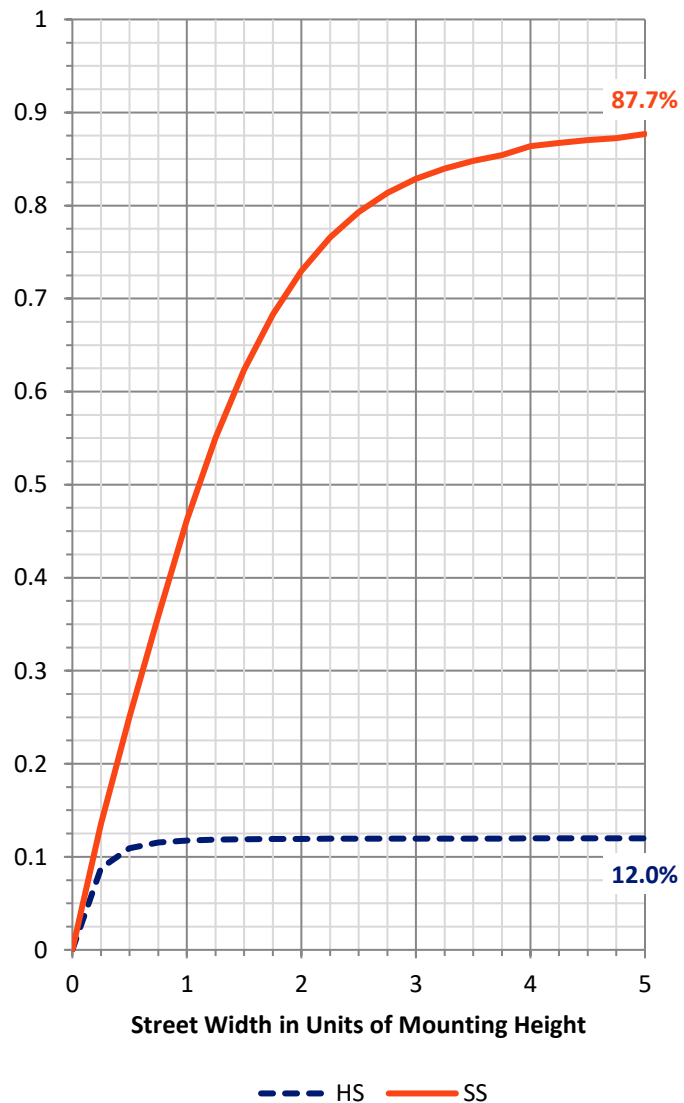
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2034.3	0.0	2034.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	14773.7	0.0	14773.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	16808.0	0.0	16808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.2	2.5
10°-20°	836.4	5.0
20°-30°	1187.7	7.1
30°-40°	1754.4	10.4
40°-50°	2530.1	15.1
50°-60°	3551.8	21.1
60°-70°	4140.4	24.6
70°-80°	2116.6	12.6
80°-90°	270.3	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°	16808.0	100.0
0°-180°	16808.0	100.0

Coefficient of Utilization



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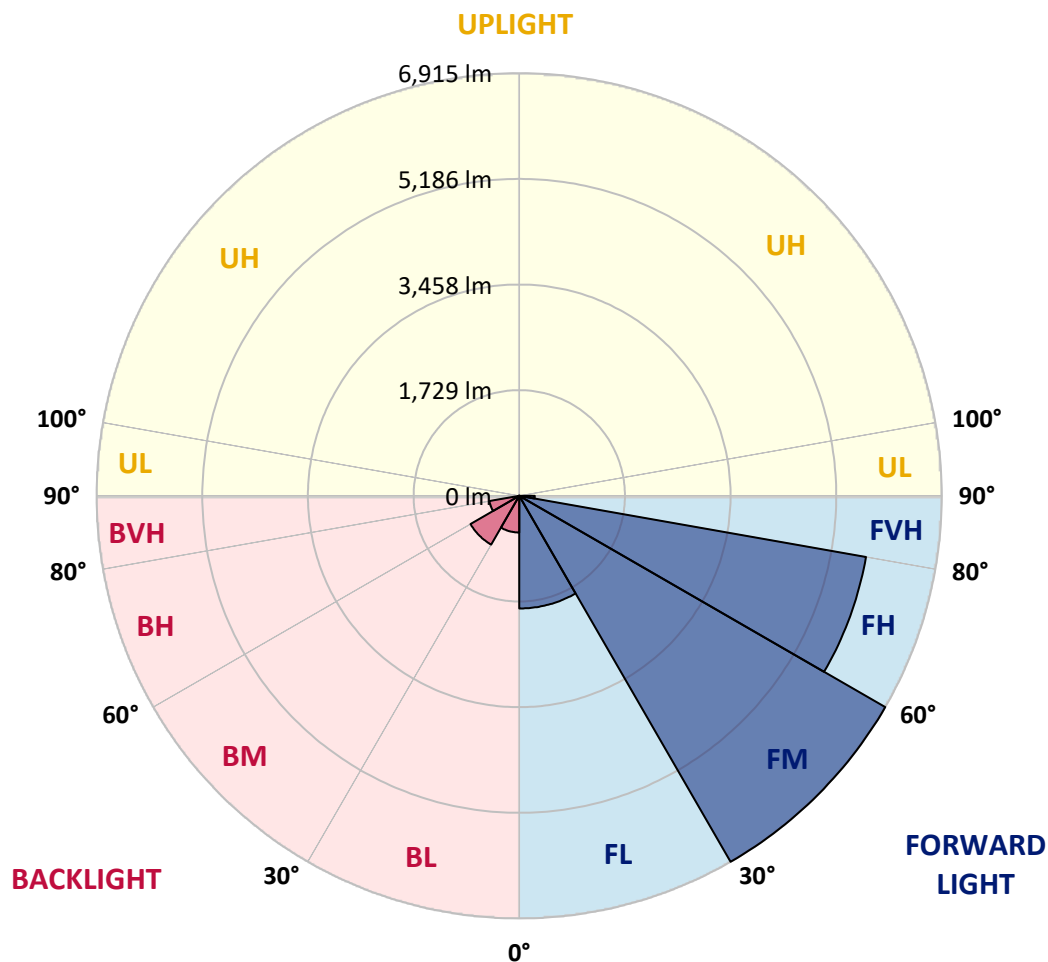
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1843.5	11.0			
FM	(30°-60°)	6915.1	41.1			
FH	(60°-80°)	5761.2	34.3			G3/7500
FVH	(80°-90°)	253.9	1.5			G3/500
BL	(0°-30°)	600.9	3.6	B2/1000		
BM	(30°-60°)	921.2	5.5	B1/1000		
BH	(60°-80°)	495.8	2.9	B1/500		G1/500
BVH	(80°-90°)	16.4	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-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2
2.5°	5995.1	5949.0	5898.0	5731.6	5577.1	5400.3	5256.2	5155.9	5030.1	4866.8	4825.4
5°	5952.1	5902.8	5742.7	5372.5	5048.4	4733.0	4428.9	4250.5	4029.1	3804.6	3748.9
7.5°	5519.8	5468.0	5237.1	4729.9	4293.5	3838.0	3443.1	3198.6	2948.6	2743.2	2634.1
10°	5069.9	5013.3	4753.8	4138.2	3600.7	3189.1	2899.2	2665.9	2429.4	2209.7	2034.5
12.5°	4760.1	4686.1	4404.2	3706.7	3238.4	2959.0	2688.2	2408.7	2088.6	1852.9	1660.2
15°	4630.3	4545.9	4248.1	3540.2	3110.2	2782.2	2429.4	2086.2	1711.2	1441.3	1264.5
17.5°	4730.7	4620.8	4301.5	3529.1	2949.4	2502.7	2056.8	1653.9	1247.0	973.8	848.0
20°	5071.5	4927.3	4522.0	3525.9	2754.3	2170.6	1605.3	1149.8	821.8	660.9	594.8
22.5°	5608.2	5417.8	4839.0	3551.4	2552.9	1821.9	1159.4	781.1	617.1	533.5	494.5
25°	6256.3	6035.8	5295.2	3641.4	2376.1	1482.7	842.5	617.1	520.8	459.4	426.8
27.5°	6872.6	6693.5	5871.7	3771.2	2239.1	1208.7	684.0	523.2	445.1	404.5	378.2
30°	7488.2	7262.8	6463.3	3925.6	2074.3	1023.2	601.2	477.0	398.9	355.9	339.2
32.5°	7935.7	7748.5	6926.8	4037.1	1898.3	902.2	537.5	436.4	372.7	328.9	304.2
35°	8462.0	8250.2	7324.1	4061.8	1785.2	825.7	483.3	392.6	323.3	284.3	258.0
37.5°	9030.5	8767.0	7782.8	4007.6	1696.9	788.3	442.7	372.7	301.8	262.0	234.1
40°	9659.6	9361.8	8223.1	3929.6	1610.1	775.6	411.7	357.5	285.1	244.5	215.8
42.5°	10322.1	9970.9	8604.5	3847.6	1555.1	731.8	408.5	342.4	272.3	228.5	199.9
45°	10878.7	10522.8	8996.3	3820.5	1516.1	684.0	422.0	332.0	263.6	215.8	187.9
47.5°	11322.2	10985.4	9397.6	3881.0	1493.8	640.2	384.6	345.6	258.8	204.6	177.6
50°	11851.7	11470.3	9963.0	4061.8	1461.2	596.4	348.0	395.7	258.8	197.5	168.8
52.5°	12515.8	12138.4	10593.6	4342.1	1395.9	535.9	312.9	396.5	261.2	187.9	157.7
55°	13351.1	13077.2	11494.2	4649.4	1291.6	446.7	270.7	340.8	251.6	170.4	147.3
57.5°	14152.2	13928.4	12315.2	4859.7	1152.2	348.8	235.7	274.7	230.1	149.7	131.4
59°	14371.1	14126.7	12616.2	4869.2	1047.9	304.2	218.2	226.9	225.3	140.1	121.8
60°	14371.1	14111.6	12702.9	4818.2	972.2	279.5	207.0	202.3	234.9	133.8	116.3
62.5°	14110.8	13746.1	12421.1	4473.5	793.1	238.1	180.8	167.2	211.0	120.2	102.7
65°	13569.3	13038.2	11460.8	3850.0	707.1	218.2	156.1	137.0	146.5	105.9	90.0
67.5°	12666.3	11946.5	10076.0	3110.2	672.9	212.6	134.6	116.3	110.7	90.8	78.8
70°	11076.2	10277.5	8395.1	2445.4	643.4	210.2	113.1	97.9	89.2	76.4	66.9
72.5°	8061.5	7228.6	5960.1	1911.9	625.9	215.0	90.8	82.0	73.3	59.7	51.8
75°	4611.2	4065.8	3349.9	1262.9	533.5	205.4	70.1	68.5	52.6	43.0	35.8
77.5°	2382.4	2310.0	2007.4	484.9	255.6	90.0	46.2	39.8	31.1	26.3	21.5
80°	1028.0	1016.8	879.9	140.1	67.7	50.2	26.3	16.7	14.3	11.1	8.8
82.5°	355.1	355.1	312.9	47.0	30.3	24.7	3.2	0.0	0.0	0.0	0.0
85°	71.7	80.4	56.5	0.0	10.4	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°	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2
2.5°	4775.3	4678.9	4672.5	4612.0	4536.4	4502.1	4482.2	4517.3	4560.3	4565.0	4629.5
5°	3706.7	3605.5	3647.7	3540.2	3561.7	3540.2	3505.2	3511.6	3530.7	3471.0	3545.0
7.5°	2603.0	2526.6	2575.1	2546.5	2584.7	2599.8	2578.3	2546.5	2452.5	2441.4	2505.9
10°	1962.0	1875.2	1823.5	1769.3	1781.3	1805.9	1798.0	1774.9	1715.2	1718.4	1780.5
12.5°	1576.6	1479.5	1376.8	1243.8	1211.1	1229.4	1211.1	1197.6	1140.3	1145.0	1200.0
15°	1196.0	1116.4	1008.9	902.2	844.0	849.6	798.7	762.8	727.0	684.0	717.4
17.5°	807.4	758.8	727.0	695.1	625.9	609.9	545.4	476.2	449.1	429.2	443.5
20°	571.7	545.4	532.7	531.1	491.3	471.4	408.5	365.5	352.0	348.0	356.7
22.5°	477.8	458.7	440.3	430.0	410.1	387.0	339.2	317.7	308.2	303.4	309.8
25°	415.7	401.3	382.2	364.7	356.7	332.0	297.8	281.9	275.5	270.7	273.9
27.5°	369.5	356.7	334.4	323.3	316.9	295.4	266.0	253.2	247.6	246.0	245.3
30°	332.8	320.9	300.2	287.5	276.3	257.2	239.7	226.9	221.4	219.8	218.2
32.5°	296.2	286.7	273.1	260.4	248.4	230.9	215.8	205.4	196.7	195.1	194.3
35°	250.0	240.5	233.3	232.5	221.4	204.6	193.5	180.0	172.8	170.4	171.2
37.5°	222.2	209.4	193.5	199.1	195.9	183.9	168.8	155.3	148.1	146.5	146.5
40°	204.6	191.1	172.8	163.2	172.8	170.4	146.5	133.0	125.8	125.0	123.4
42.5°	187.9	174.4	153.7	137.8	142.5	149.7	126.6	113.9	106.7	105.1	102.7
45°	176.0	161.6	138.6	120.2	110.7	125.8	108.3	92.4	88.4	85.2	83.6
47.5°	164.8	151.3	125.0	104.3	88.4	90.8	86.8	75.6	70.9	67.7	66.9
50°	155.3	140.9	113.1	89.2	73.3	66.9	70.1	59.7	55.7	52.6	51.0
52.5°	144.1	130.6	100.3	77.2	61.3	52.6	53.4	47.0	43.0	40.6	39.8
55°	135.4	121.8	90.0	67.7	54.1	43.0	38.2	36.6	34.2	32.6	31.9
57.5°	123.4	110.7	79.6	57.3	46.2	35.0	29.5	29.5	28.7	27.1	26.3
59°	116.3	105.1	73.3	51.8	42.2	30.3	26.3	27.1	26.3	24.7	23.9
60°	110.7	100.3	68.5	47.8	39.8	27.9	23.9	25.5	24.7	23.1	22.3
62.5°	97.9	90.8	58.9	39.8	35.0	22.3	19.9	21.5	21.5	20.7	19.9
65°	86.0	78.0	50.2	33.4	32.6	19.1	15.9	19.1	19.9	18.3	16.7
67.5°	74.8	66.9	43.8	27.1	30.3	15.1	11.9	15.9	21.5	16.7	15.1
70°	63.7	55.7	34.2	21.5	31.9	10.4	9.6	14.3	25.5	18.3	14.3
72.5°	49.4	43.0	23.9	15.9	34.2	7.2	7.2	11.9	28.7	19.9	13.5
75°	34.2	27.9	14.3	9.6	27.9	4.8	4.8	11.1	27.1	18.3	12.7
77.5°	19.9	15.1	4.8	0.8	14.3	0.0	0.8	8.0	19.1	11.1	5.6
80°	7.2	3.2	0.0	0.0	8.8	0.0	0.0	0.0	1.6	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°	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2
2.5°	4646.3	4753.8	4850.1	4995.8	5168.6	5367.7	5538.9	5722.8	5895.6	5967.3	6016.6
5°	3560.1	3693.1	3848.4	4062.6	4347.7	4698.8	5027.7	5399.5	5799.3	5999.1	6187.0
7.5°	2517.0	2652.4	2845.1	3072.8	3417.6	3835.6	4265.6	4779.2	5320.7	5636.8	5948.2
10°	1809.9	1976.4	2156.3	2467.7	2818.0	3214.6	3657.3	4230.6	4834.2	5184.5	5559.6
12.5°	1231.8	1421.3	1693.7	2042.4	2454.1	2842.7	3227.3	3774.3	4475.1	4822.2	5224.3
15°	738.9	844.0	1132.3	1536.0	2040.8	2525.0	2946.2	3494.8	4241.7	4667.0	5085.0
17.5°	455.5	504.0	660.9	992.2	1522.5	2134.8	2712.1	3400.1	4275.2	4792.8	5240.3
20°	363.1	382.2	432.4	586.1	1008.9	1704.8	2448.5	3381.0	4548.3	5185.3	5665.5
22.5°	315.3	333.6	367.1	426.0	634.6	1276.4	2198.5	3398.5	4940.1	5773.8	6334.4
25°	277.9	293.8	325.7	374.2	465.0	899.0	1931.0	3476.5	5450.5	6504.0	7099.6
27.5°	248.4	262.0	291.4	336.0	398.9	627.5	1627.6	3571.3	6055.7	7250.9	7838.5
30°	221.4	233.3	259.6	301.0	346.4	482.5	1294.7	3635.8	6661.6	7838.5	8366.4
32.5°	198.3	207.0	230.9	266.0	301.0	384.6	984.2	3625.4	7111.5	8327.4	8746.3
35°	174.4	183.1	203.8	234.1	262.0	317.7	774.0	3431.9	7503.3	8834.7	9181.0
37.5°	148.1	159.3	179.2	206.2	225.3	279.5	625.9	3198.6	7900.6	9414.3	9666.0
40°	125.8	137.0	154.5	183.9	195.9	265.2	480.9	2914.4	8347.3	10062.5	10197.9
42.5°	104.3	114.7	133.0	158.5	184.7	228.5	355.9	2589.5	8776.5	10616.7	10682.8
45°	84.4	94.8	113.9	139.3	197.5	189.5	275.5	2241.5	9122.9	11077.8	11099.3
47.5°	66.9	76.4	96.3	131.4	183.9	151.3	196.7	1968.4	9413.5	11437.7	11381.1
50°	51.8	59.7	80.4	150.5	160.8	125.0	148.9	1877.6	9673.9	11660.6	11514.1
52.5°	40.6	47.8	66.1	140.9	125.0	103.5	125.0	1962.8	10030.7	11845.4	11589.0
55°	32.6	39.8	51.8	80.4	85.2	87.6	106.7	2042.4	10646.2	12278.5	12030.9
57.5°	27.1	34.2	42.2	56.5	64.5	74.1	94.8	2051.2	11371.6	12998.4	12764.3
59°	24.7	31.1	38.2	50.2	56.5	67.7	89.2	2003.4	11627.2	13260.3	13143.3
60°	23.1	29.5	35.8	46.2	52.6	63.7	86.0	1958.0	11638.3	13250.8	13304.9
62.5°	19.9	26.3	31.9	39.0	44.6	54.1	77.2	1790.0	11166.9	12816.8	13207.8
65°	17.5	23.1	28.7	33.4	38.2	48.6	70.1	1483.5	10361.9	12116.9	12542.9
67.5°	15.9	19.9	26.3	29.5	34.2	43.0	62.1	1057.5	9356.2	11260.9	11537.2
70°	14.3	19.1	23.9	27.1	31.1	37.4	53.4	607.6	7900.6	10007.6	10204.2
72.5°	13.5	18.3	21.5	25.5	27.9	33.4	48.6	285.9	5784.9	8016.9	8530.5
75°	11.9	16.7	19.9	23.9	26.3	30.3	41.4	137.0	3847.6	5801.6	6385.3
77.5°	7.2	13.5	18.3	21.5	23.1	26.3	34.2	78.8	2455.7	4015.6	4729.9
80°	0.0	4.8	13.5	18.3	19.9	22.3	26.3	62.1	1313.9	2294.1	2753.5
82.5°	0.0	0.0	9.6	14.3	13.5	15.1	19.9	39.0	592.4	1499.4	1689.7
85°	0.0	0.0	3.2	11.1	9.6	7.2	13.5	13.5	129.8	758.8	946.8
87.5°	0.0	0.0	0.0	0.8	4.8	3.2	5.6	1.6	0.8	56.5	229.3
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-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2
2.5°	6189.4	6248.4	6347.9	6394.9	6371.8	6273.8	6156.8	6037.3	5967.3	5995.1
5°	6570.1	6873.4	7048.6	7106.7	7009.6	6789.8	6502.4	6123.3	5988.8	5952.1
7.5°	6570.1	7141.0	7502.5	7566.2	7349.6	6918.8	6379.7	5788.1	5591.4	5519.8
10°	6339.1	7116.3	7620.3	7721.5	7418.9	6774.7	6052.5	5377.2	5143.9	5069.9
12.5°	6078.7	6915.6	7446.7	7586.1	7337.7	6631.4	5825.5	5099.3	4824.6	4760.1
15°	5918.7	6668.8	7108.3	7209.5	7104.3	6547.8	5771.4	5015.7	4692.4	4630.3
17.5°	5976.0	6477.7	6636.1	6695.1	6765.9	6518.3	5918.7	5198.9	4789.6	4730.7
20°	6191.8	6276.2	6194.2	6268.3	6459.4	6547.0	6269.9	5641.6	5150.3	5071.5
22.5°	6558.1	6171.9	5941.8	5971.3	6203.8	6641.7	6806.5	6273.8	5706.9	5608.2
25°	6984.9	6256.3	5801.6	5775.4	6014.3	6766.7	7297.0	6961.8	6365.4	6256.3
27.5°	7521.6	6445.8	5773.0	5746.7	5948.2	6883.8	7704.7	7641.8	7059.0	6872.6
30°	7935.7	6632.2	5858.2	5797.7	6014.3	6965.0	8032.0	8219.1	7611.6	7488.2
32.5°	8232.7	6851.9	5996.7	5909.1	6200.6	7105.1	8284.4	8747.9	8122.8	7935.7
35°	8458.8	7090.8	6220.5	6076.4	6457.0	7317.8	8520.9	9310.8	8666.6	8462.0
37.5°	8670.6	7426.0	6570.1	6398.1	6859.1	7660.1	8770.9	9949.4	9275.0	9030.5
40°	8966.0	7805.9	7109.1	6956.2	7535.1	8126.8	9083.1	10615.1	9967.0	9659.6
42.5°	9261.5	8213.6	7660.9	7702.4	8378.4	8693.7	9486.0	11319.0	10650.2	10322.1
45°	9531.4	8634.0	8446.9	8638.0	9161.1	9315.6	9886.5	11725.9	11195.6	10878.7
47.5°	9771.9	9159.5	9228.0	9736.8	10051.4	9878.6	10185.9	12077.1	11601.7	11322.2
50°	10051.4	9839.5	10257.6	10977.4	11076.2	10388.2	10458.3	12492.7	12076.3	11851.7
52.5°	10357.1	10556.2	11397.9	12032.5	12000.6	10941.6	10732.2	12958.6	12726.8	12515.8
55°	10704.3	11135.1	12402.0	13019.9	12992.8	11559.5	11186.0	13534.3	13542.2	13351.1
57.5°	11219.5	11633.6	13083.6	13818.5	13863.9	12273.0	11955.2	14179.2	14279.6	14152.2
59°	11589.0	11956.8	13353.5	14152.2	14336.9	12824.8	12517.4	14553.5	14487.4	14371.1
60°	11862.9	12162.3	13487.3	14326.5	14611.6	13199.0	12932.3	14773.3	14512.1	14371.1
62.5°	12540.5	12609.8	13728.5	14524.0	14927.7	14030.3	14099.6	15147.5	14340.9	14110.8
65°	12856.6	12892.5	13725.4	14170.5	14622.0	14677.7	15158.7	15158.7	13922.8	13569.3
67.5°	12724.4	12551.7	13044.5	12998.4	13449.1	14293.1	15556.8	14602.9	13123.4	12666.3
70°	11649.5	10984.6	10765.6	10785.5	11130.3	12432.2	14768.5	12967.3	11610.5	11076.2
72.5°	9693.0	8098.1	7557.4	8174.5	8264.5	9554.5	12585.9	9765.5	8562.3	8061.5
75°	7796.3	5708.5	4829.4	5480.7	5633.6	6992.1	9736.0	6081.9	5001.4	4611.2
77.5°	5601.0	4097.6	3465.4	3420.0	3617.5	4434.4	6908.5	3060.9	2552.9	2382.4
80°	3181.9	2697.0	2904.0	2740.0	2839.5	2772.6	3282.2	1342.5	1099.7	1028.0
82.5°	1920.6	1594.1	1726.3	1437.3	1818.7	1583.8	1264.5	430.0	373.5	355.1
85°	1249.4	871.1	453.9	304.2	626.7	1012.1	282.7	117.1	90.0	71.7
87.5°	430.8	222.2	22.3	9.6	66.9	188.7	10.4	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)