

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: P324556

Luminaire Tested: **GAN-SA2B-760-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324556
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-SA2B-760-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 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: 8668 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

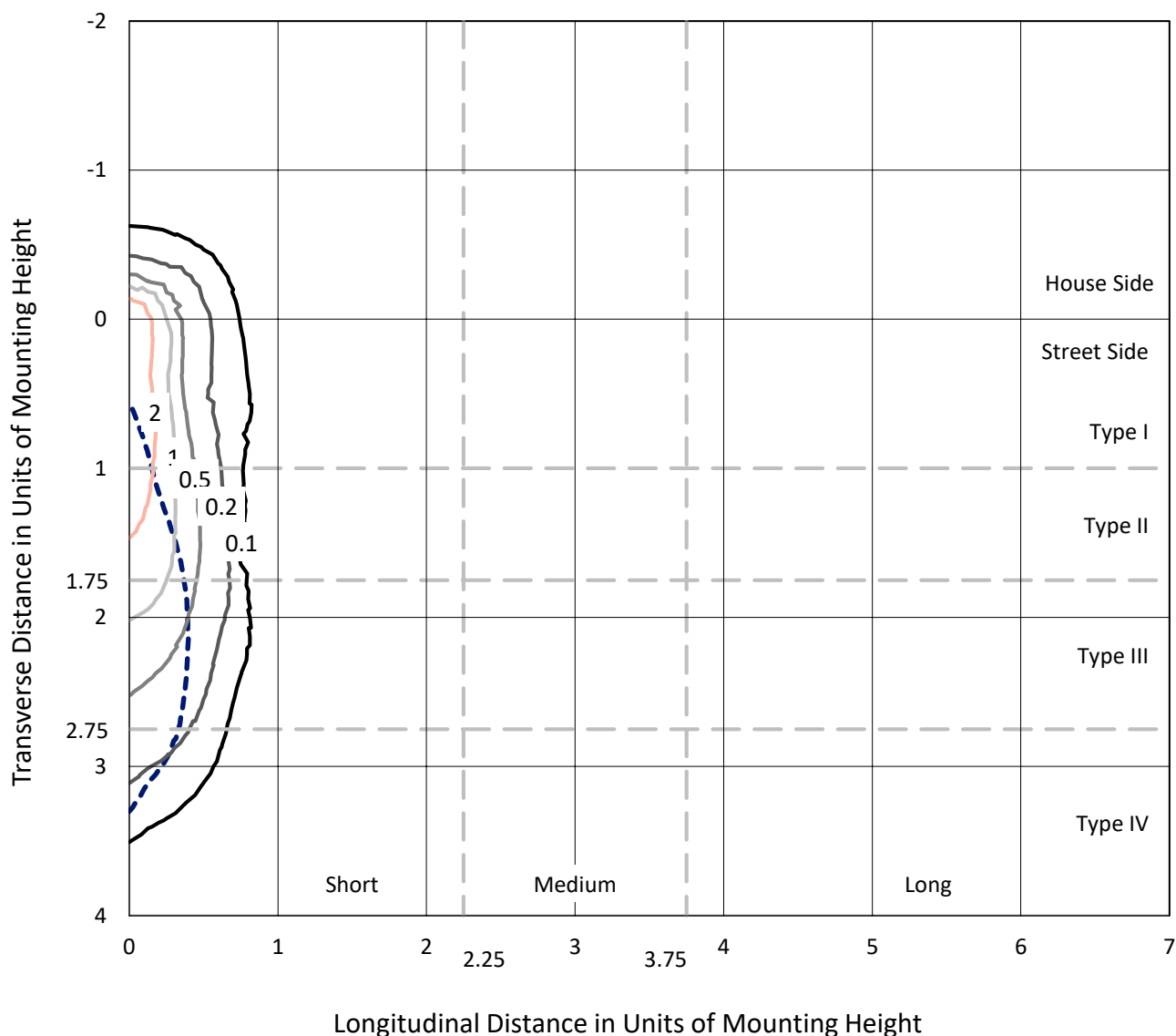
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

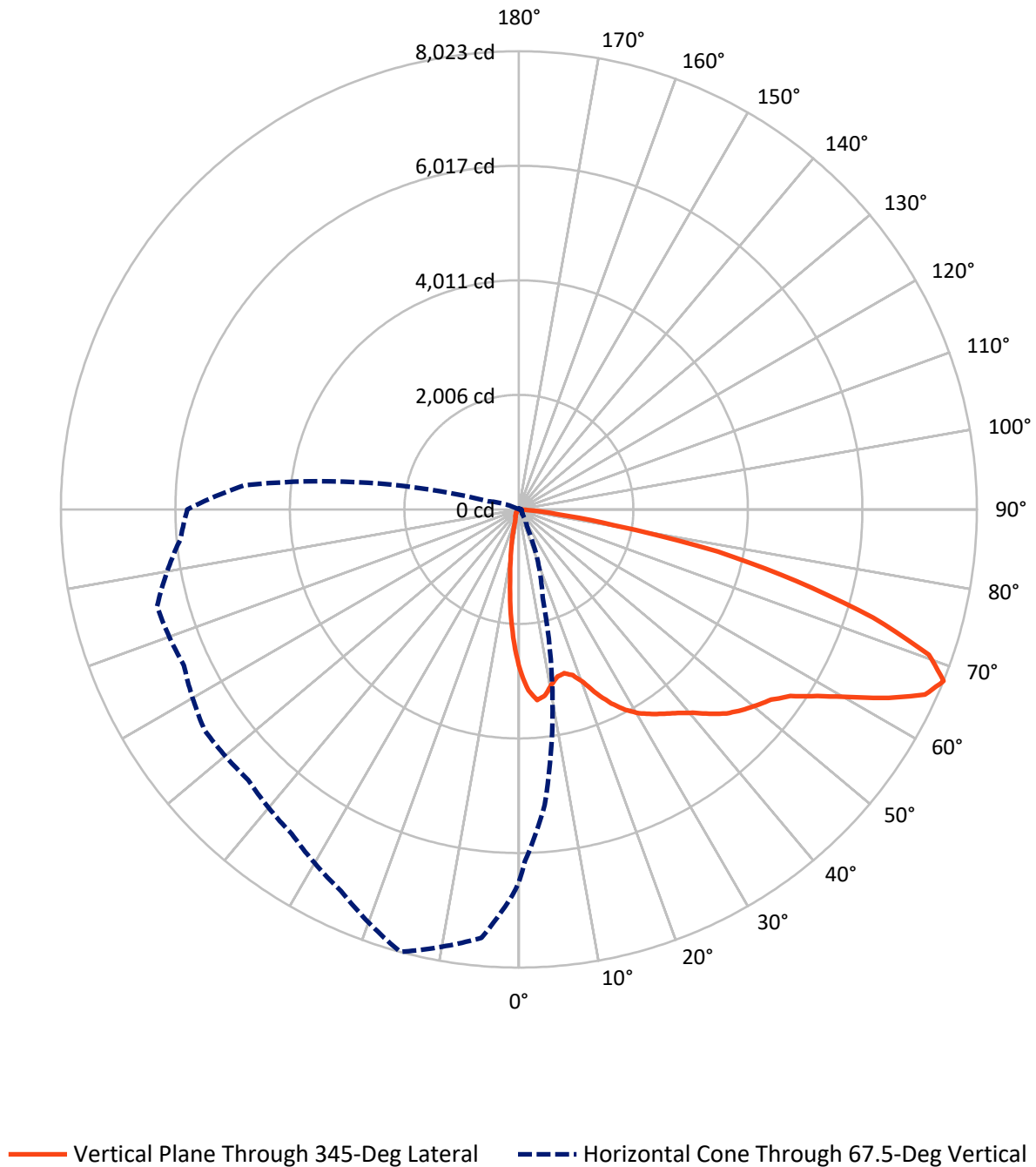
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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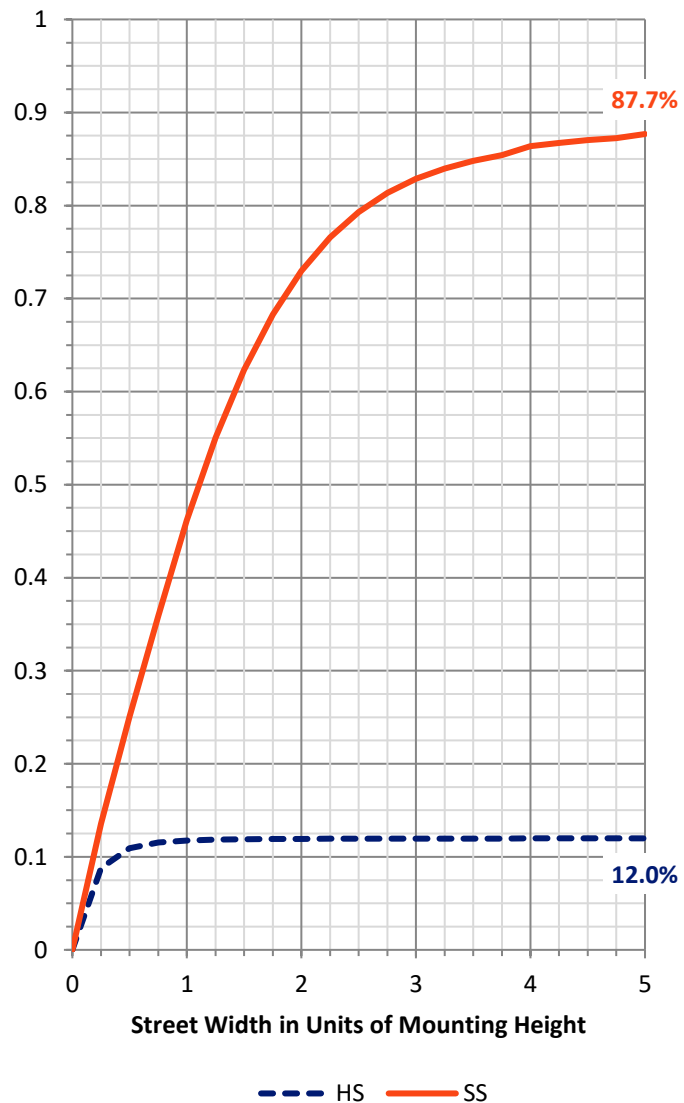
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1049.1	0.0	1049.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	7618.9	0.0	7618.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	8668.0	0.0	8668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.7	2.5
10°-20°	431.4	5.0
20°-30°	612.5	7.1
30°-40°	904.7	10.4
40°-50°	1304.8	15.1
50°-60°	1831.7	21.1
60°-70°	2135.2	24.6
70°-80°	1091.6	12.6
80°-90°	139.4	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°	8668.0	100.0
0°-180°	8668.0	100.0

Coefficient of Utilization



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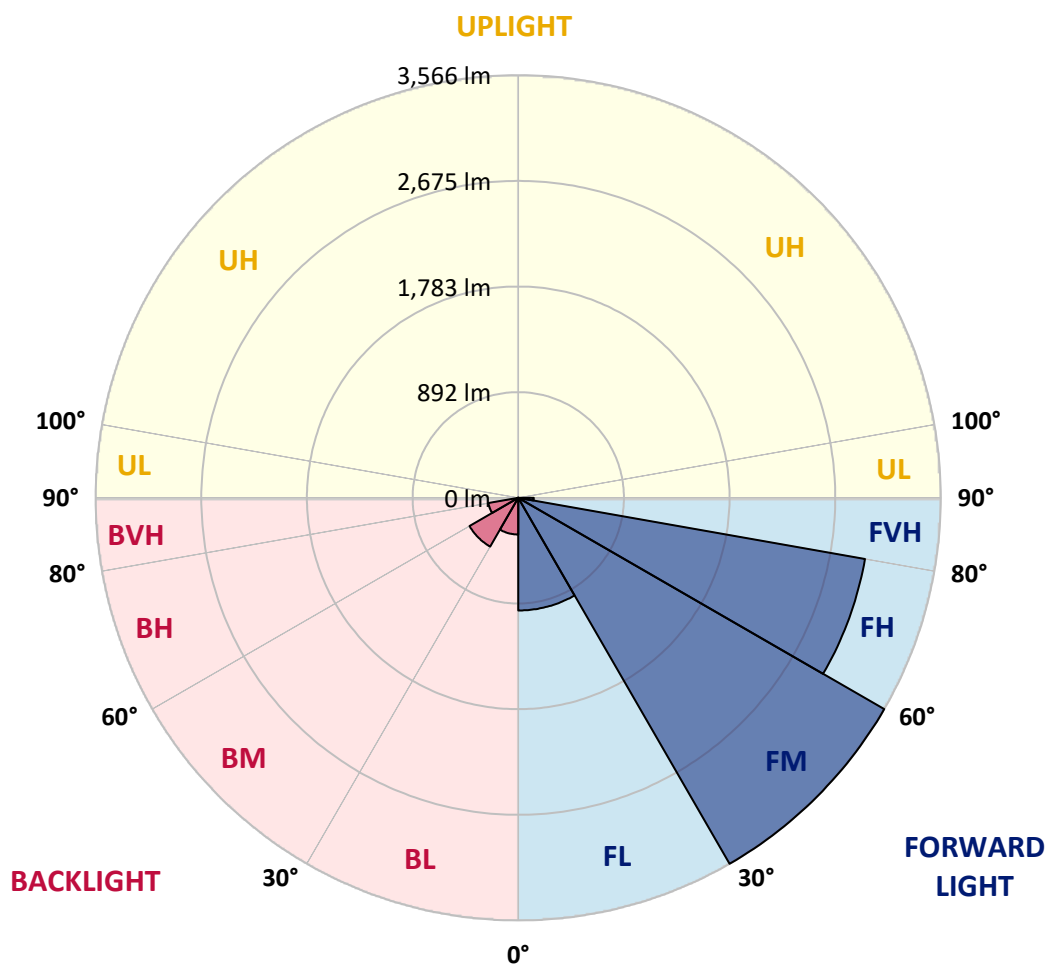
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	950.7	11.0			
FM	(30°-60°)	3566.2	41.1			
FH	(60°-80°)	2971.1	34.3			G2/5000
FVH	(80°-90°)	130.9	1.5			G2/225
BL	(0°-30°)	309.9	3.6	B1/500		
BM	(30°-60°)	475.1	5.5	B1/1000		
BH	(60°-80°)	255.7	2.9	B1/500		G1/500
BVH	(80°-90°)	8.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6
2.5°	3091.7	3067.9	3041.6	2955.8	2876.1	2785.0	2710.7	2658.9	2594.0	2509.9	2488.5
5°	3069.6	3044.1	2961.6	2770.6	2603.5	2440.9	2284.0	2192.0	2077.9	1962.1	1933.3
7.5°	2846.6	2819.9	2700.8	2439.2	2214.2	1979.3	1775.6	1649.6	1520.6	1414.7	1358.4
10°	2614.6	2585.4	2451.5	2134.1	1856.9	1644.6	1495.2	1374.8	1252.9	1139.5	1049.2
12.5°	2454.8	2416.6	2271.3	1911.5	1670.1	1526.0	1386.3	1242.2	1077.1	955.6	856.2
15°	2387.9	2344.4	2190.8	1825.7	1604.0	1434.8	1252.9	1075.9	882.5	743.3	652.1
17.5°	2439.6	2383.0	2218.3	1820.0	1521.0	1290.7	1060.7	852.9	643.1	502.2	437.3
20°	2615.4	2541.1	2332.0	1818.3	1420.4	1119.4	827.9	593.0	423.8	340.8	306.8
22.5°	2892.2	2794.0	2495.5	1831.5	1316.5	939.6	597.9	402.8	318.2	275.1	255.0
25°	3226.4	3112.7	2730.8	1877.9	1225.4	764.6	434.5	318.2	268.6	236.9	220.1
27.5°	3544.3	3451.9	3028.1	1944.8	1154.7	623.4	352.7	269.8	229.5	208.6	195.1
30°	3861.7	3745.5	3333.2	2024.5	1069.7	527.7	310.0	246.0	205.7	183.6	174.9
32.5°	4092.5	3996.0	3572.2	2082.0	979.0	465.3	277.2	225.0	192.2	169.6	156.9
35°	4363.9	4254.7	3777.1	2094.7	920.7	425.8	249.3	202.4	166.7	146.6	133.0
37.5°	4657.1	4521.2	4013.6	2066.8	875.1	406.5	228.3	192.2	155.6	135.1	120.7
40°	4981.5	4827.9	4240.7	2026.5	830.3	400.0	212.3	184.4	147.0	126.1	111.3
42.5°	5323.2	5142.1	4437.4	1984.2	802.0	377.4	210.7	176.6	140.4	117.9	103.1
45°	5610.2	5426.7	4639.5	1970.3	781.9	352.7	217.6	171.2	135.9	111.3	96.9
47.5°	5838.9	5665.2	4846.4	2001.5	770.4	330.2	198.3	178.2	133.5	105.5	91.6
50°	6112.0	5915.3	5138.0	2094.7	753.5	307.6	179.5	204.1	133.5	101.8	87.1
52.5°	6454.5	6259.9	5463.2	2239.2	719.9	276.4	161.4	204.5	134.7	96.9	81.3
55°	6885.3	6744.0	5927.6	2397.7	666.1	230.4	139.6	175.8	129.8	87.9	76.0
57.5°	7298.4	7183.0	6351.0	2506.2	594.2	179.9	121.6	141.7	118.7	77.2	67.8
59°	7411.3	7285.2	6506.2	2511.1	540.4	156.9	112.5	117.0	116.2	72.3	62.8
60°	7411.3	7277.4	6551.0	2484.8	501.4	144.1	106.8	104.3	121.1	69.0	60.0
62.5°	7277.0	7088.9	6405.6	2307.0	409.0	122.8	93.2	86.2	108.8	62.0	53.0
65°	6997.8	6723.9	5910.4	1985.5	364.7	112.5	80.5	70.6	75.6	54.6	46.4
67.5°	6532.1	6160.9	5196.3	1604.0	347.0	109.6	69.4	60.0	57.1	46.8	40.7
70°	5712.1	5300.2	4329.4	1261.1	331.8	108.4	58.3	50.5	46.0	39.4	34.5
72.5°	4157.4	3727.8	3073.7	986.0	322.8	110.9	46.8	42.3	37.8	30.8	26.7
75°	2378.0	2096.7	1727.6	651.3	275.1	105.9	36.1	35.3	27.1	22.2	18.5
77.5°	1228.6	1191.3	1035.2	250.1	131.8	46.4	23.8	20.5	16.0	13.6	11.1
80°	530.1	524.4	453.8	72.3	34.9	25.9	13.6	8.6	7.4	5.7	4.5
82.5°	183.1	183.1	161.4	24.2	15.6	12.7	1.6	0.0	0.0	0.0	0.0
85°	37.0	41.5	29.2	0.0	5.3	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°	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6
2.5°	2462.6	2412.9	2409.7	2378.4	2339.4	2321.8	2311.5	2329.6	2351.8	2354.2	2387.5
5°	1911.5	1859.4	1881.2	1825.7	1836.8	1825.7	1807.7	1810.9	1820.8	1790.0	1828.2
7.5°	1342.4	1303.0	1328.0	1313.2	1332.9	1340.8	1329.7	1313.2	1264.8	1259.0	1292.3
10°	1011.8	967.1	940.4	912.4	918.6	931.3	927.2	915.3	884.5	886.2	918.2
12.5°	813.1	763.0	710.0	641.4	624.6	634.0	624.6	617.6	588.0	590.5	618.8
15°	616.8	575.7	520.3	465.3	435.3	438.2	411.9	393.4	374.9	352.7	370.0
17.5°	416.4	391.3	374.9	358.5	322.8	314.6	281.3	245.6	231.6	221.3	228.7
20°	294.8	281.3	274.7	273.9	253.4	243.1	210.7	188.5	181.5	179.5	184.0
22.5°	246.4	236.5	227.1	221.7	211.5	199.6	174.9	163.8	158.9	156.5	159.7
25°	214.4	207.0	197.1	188.1	184.0	171.2	153.6	145.4	142.1	139.6	141.3
27.5°	190.5	184.0	172.5	166.7	163.4	152.3	137.2	130.6	127.7	126.9	126.5
30°	171.6	165.5	154.8	148.2	142.5	132.6	123.6	117.0	114.2	113.3	112.5
32.5°	152.8	147.8	140.9	134.3	128.1	119.1	111.3	105.9	101.4	100.6	100.2
35°	128.9	124.0	120.3	119.9	114.2	105.5	99.8	92.8	89.1	87.9	88.3
37.5°	114.6	108.0	99.8	102.7	101.0	94.9	87.1	80.1	76.4	75.6	75.6
40°	105.5	98.6	89.1	84.2	89.1	87.9	75.6	68.6	64.9	64.5	63.6
42.5°	96.9	89.9	79.3	71.0	73.5	77.2	65.3	58.7	55.0	54.2	53.0
45°	90.8	83.4	71.5	62.0	57.1	64.9	55.8	47.6	45.6	43.9	43.1
47.5°	85.0	78.0	64.5	53.8	45.6	46.8	44.8	39.0	36.5	34.9	34.5
50°	80.1	72.7	58.3	46.0	37.8	34.5	36.1	30.8	28.7	27.1	26.3
52.5°	74.3	67.3	51.7	39.8	31.6	27.1	27.5	24.2	22.2	20.9	20.5
55°	69.8	62.8	46.4	34.9	27.9	22.2	19.7	18.9	17.7	16.8	16.4
57.5°	63.6	57.1	41.1	29.6	23.8	18.1	15.2	15.2	14.8	14.0	13.6
59°	60.0	54.2	37.8	26.7	21.8	15.6	13.6	14.0	13.6	12.7	12.3
60°	57.1	51.7	35.3	24.6	20.5	14.4	12.3	13.1	12.7	11.9	11.5
62.5°	50.5	46.8	30.4	20.5	18.1	11.5	10.3	11.1	11.1	10.7	10.3
65°	44.3	40.2	25.9	17.2	16.8	9.9	8.2	9.9	10.3	9.4	8.6
67.5°	38.6	34.5	22.6	14.0	15.6	7.8	6.2	8.2	11.1	8.6	7.8
70°	32.9	28.7	17.7	11.1	16.4	5.3	4.9	7.4	13.1	9.4	7.4
72.5°	25.5	22.2	12.3	8.2	17.7	3.7	3.7	6.2	14.8	10.3	7.0
75°	17.7	14.4	7.4	4.9	14.4	2.5	2.5	5.7	14.0	9.4	6.6
77.5°	10.3	7.8	2.5	0.4	7.4	0.0	0.4	4.1	9.9	5.7	2.9
80°	3.7	1.6	0.0	0.0	4.5	0.0	0.0	0.0	0.8	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°	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6
2.5°	2396.1	2451.5	2501.2	2576.4	2665.5	2768.1	2856.4	2951.3	3040.4	3077.4	3102.8
5°	1836.0	1904.6	1984.6	2095.1	2242.1	2423.2	2592.8	2784.6	2990.7	3093.8	3190.7
7.5°	1298.0	1367.9	1467.2	1584.7	1762.5	1978.1	2199.8	2464.7	2743.9	2906.9	3067.5
10°	933.4	1019.2	1112.0	1272.6	1453.3	1657.8	1886.1	2181.7	2493.0	2673.7	2867.1
12.5°	635.3	733.0	873.4	1053.3	1265.6	1466.0	1664.3	1946.5	2307.8	2486.9	2694.2
15°	381.1	435.3	583.9	792.1	1052.5	1302.2	1519.4	1802.3	2187.5	2406.8	2622.4
17.5°	234.9	259.9	340.8	511.7	785.2	1100.9	1398.7	1753.4	2204.7	2471.7	2702.4
20°	187.3	197.1	223.0	302.2	520.3	879.2	1262.7	1743.6	2345.6	2674.1	2921.7
22.5°	162.6	172.1	189.3	219.7	327.3	658.3	1133.8	1752.6	2547.6	2977.6	3266.7
25°	143.3	151.5	168.0	193.0	239.8	463.6	995.8	1792.9	2810.9	3354.1	3661.3
27.5°	128.1	135.1	150.3	173.3	205.7	323.6	839.4	1841.7	3122.9	3739.3	4042.4
30°	114.2	120.3	133.9	155.2	178.6	248.8	667.7	1875.0	3435.4	4042.4	4314.6
32.5°	102.3	106.8	119.1	137.2	155.2	198.3	507.6	1869.7	3667.5	4294.5	4510.5
35°	89.9	94.4	105.1	120.7	135.1	163.8	399.1	1769.9	3869.5	4556.1	4734.7
37.5°	76.4	82.1	92.4	106.4	116.2	144.1	322.8	1649.6	4074.4	4855.0	4984.8
40°	64.9	70.6	79.7	94.9	101.0	136.7	248.0	1503.0	4304.8	5189.3	5259.1
42.5°	53.8	59.1	68.6	81.7	95.3	117.9	183.6	1335.4	4526.1	5475.1	5509.2
45°	43.5	48.9	58.7	71.9	101.8	97.7	142.1	1156.0	4704.7	5712.9	5724.0
47.5°	34.5	39.4	49.7	67.8	94.9	78.0	101.4	1015.1	4854.6	5898.5	5869.3
50°	26.7	30.8	41.5	77.6	82.9	64.5	76.8	968.3	4988.9	6013.5	5937.9
52.5°	20.9	24.6	34.1	72.7	64.5	53.4	64.5	1012.2	5172.9	6108.7	5976.5
55°	16.8	20.5	26.7	41.5	43.9	45.2	55.0	1053.3	5490.3	6332.1	6204.4
57.5°	14.0	17.7	21.8	29.2	33.3	38.2	48.9	1057.8	5864.4	6703.3	6582.6
59°	12.7	16.0	19.7	25.9	29.2	34.9	46.0	1033.2	5996.2	6838.4	6778.1
60°	11.9	15.2	18.5	23.8	27.1	32.9	44.3	1009.8	6002.0	6833.5	6861.4
62.5°	10.3	13.6	16.4	20.1	23.0	27.9	39.8	923.1	5758.9	6609.7	6811.3
65°	9.0	11.9	14.8	17.2	19.7	25.0	36.1	765.0	5343.7	6248.8	6468.5
67.5°	8.2	10.3	13.6	15.2	17.7	22.2	32.0	545.3	4825.1	5807.3	5949.8
70°	7.4	9.9	12.3	14.0	16.0	19.3	27.5	313.3	4074.4	5161.0	5262.4
72.5°	7.0	9.4	11.1	13.1	14.4	17.2	25.0	147.4	2983.3	4134.4	4399.2
75°	6.2	8.6	10.3	12.3	13.6	15.6	21.4	70.6	1984.2	2991.9	3293.0
77.5°	3.7	7.0	9.4	11.1	11.9	13.6	17.7	40.7	1266.4	2070.9	2439.2
80°	0.0	2.5	7.0	9.4	10.3	11.5	13.6	32.0	677.6	1183.1	1420.0
82.5°	0.0	0.0	4.9	7.4	7.0	7.8	10.3	20.1	305.5	773.2	871.4
85°	0.0	0.0	1.6	5.7	4.9	3.7	7.0	7.0	66.9	391.3	488.3
87.5°	0.0	0.0	0.0	0.4	2.5	1.6	2.9	0.8	0.4	29.2	118.3
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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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6
2.5°	3191.9	3222.3	3273.7	3297.9	3286.0	3235.5	3175.1	3113.5	3077.4	3091.7
5°	3388.2	3544.7	3635.0	3665.0	3614.9	3501.6	3353.3	3157.8	3088.5	3069.6
7.5°	3388.2	3682.7	3869.1	3901.9	3790.2	3568.1	3290.1	2985.0	2883.5	2846.6
10°	3269.1	3669.9	3929.9	3982.0	3826.0	3493.8	3121.3	2773.1	2652.8	2614.6
12.5°	3134.9	3566.4	3840.3	3912.2	3784.1	3419.8	3004.3	2629.8	2488.1	2454.8
15°	3052.3	3439.1	3665.8	3718.0	3663.8	3376.7	2976.3	2586.6	2419.9	2387.9
17.5°	3081.9	3340.6	3422.3	3452.7	3489.2	3361.5	3052.3	2681.1	2470.0	2439.6
20°	3193.2	3236.7	3194.4	3232.6	3331.1	3376.3	3233.4	2909.4	2656.0	2615.4
22.5°	3382.1	3182.9	3064.2	3079.4	3199.3	3425.2	3510.2	3235.5	2943.1	2892.2
25°	3602.2	3226.4	2991.9	2978.4	3101.6	3489.6	3763.1	3590.3	3282.7	3226.4
27.5°	3878.9	3324.2	2977.2	2963.6	3067.5	3550.0	3973.4	3940.9	3640.4	3544.3
30°	4092.5	3420.2	3021.1	2989.9	3101.6	3591.9	4142.2	4238.7	3925.3	3861.7
32.5°	4245.6	3533.6	3092.6	3047.4	3197.7	3664.2	4272.3	4511.3	4189.0	4092.5
35°	4362.3	3656.8	3207.9	3133.6	3329.9	3773.8	4394.3	4801.7	4469.4	4363.9
37.5°	4471.5	3829.7	3388.2	3299.5	3537.3	3950.4	4523.2	5131.0	4783.2	4657.1
40°	4623.8	4025.5	3666.2	3587.4	3885.9	4191.0	4684.2	5474.3	5140.0	4981.5
42.5°	4776.2	4235.8	3950.8	3972.2	4320.8	4483.4	4892.0	5837.3	5492.4	5323.2
45°	4915.4	4452.6	4356.1	4454.7	4724.5	4804.1	5098.6	6047.1	5773.6	5610.2
47.5°	5039.4	4723.6	4758.9	5021.3	5183.6	5094.4	5253.0	6228.2	5983.1	5838.9
50°	5183.6	5074.3	5289.9	5661.1	5712.1	5357.3	5393.4	6442.6	6227.8	6112.0
52.5°	5341.2	5443.9	5878.0	6205.2	6188.8	5642.7	5534.7	6682.8	6563.3	6454.5
55°	5520.3	5742.4	6395.8	6714.4	6700.5	5961.3	5768.7	6979.7	6983.8	6885.3
57.5°	5786.0	5999.5	6747.3	7126.3	7149.7	6329.2	6165.4	7312.3	7364.1	7298.4
59°	5976.5	6166.2	6886.5	7298.4	7393.6	6613.8	6455.3	7505.3	7471.2	7411.3
60°	6117.8	6272.2	6955.5	7388.3	7535.3	6806.8	6669.3	7618.7	7484.0	7411.3
62.5°	6467.2	6503.0	7079.9	7490.1	7698.3	7235.5	7271.3	7811.7	7395.7	7277.0
65°	6630.3	6648.7	7078.3	7307.8	7540.6	7569.4	7817.4	7817.4	7180.1	6997.8
67.5°	6562.1	6473.0	6727.2	6703.3	6935.8	7371.1	8022.7	7530.8	6767.8	6532.1
70°	6007.7	5664.8	5551.9	5562.2	5740.0	6411.4	7616.2	6687.3	5987.6	5712.1
72.5°	4998.8	4176.2	3897.4	4215.7	4262.1	4927.3	6490.6	5036.1	4415.6	4157.4
75°	4020.6	2943.9	2490.6	2826.5	2905.3	3605.9	5020.9	3136.5	2579.3	2378.0
77.5°	2888.5	2113.2	1787.1	1763.7	1865.6	2286.9	3562.7	1578.5	1316.5	1228.6
80°	1640.9	1390.8	1497.6	1413.0	1464.4	1429.9	1692.7	692.3	567.1	530.1
82.5°	990.5	822.1	890.3	741.2	937.9	816.8	652.1	221.7	192.6	183.1
85°	644.3	449.2	234.1	156.9	323.2	521.9	145.8	60.4	46.4	37.0
87.5°	222.2	114.6	11.5	4.9	34.5	97.3	5.3	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)