

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: P324399

Luminaire Tested: **GAN-SA5B-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324399
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-SA5B-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 17706 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

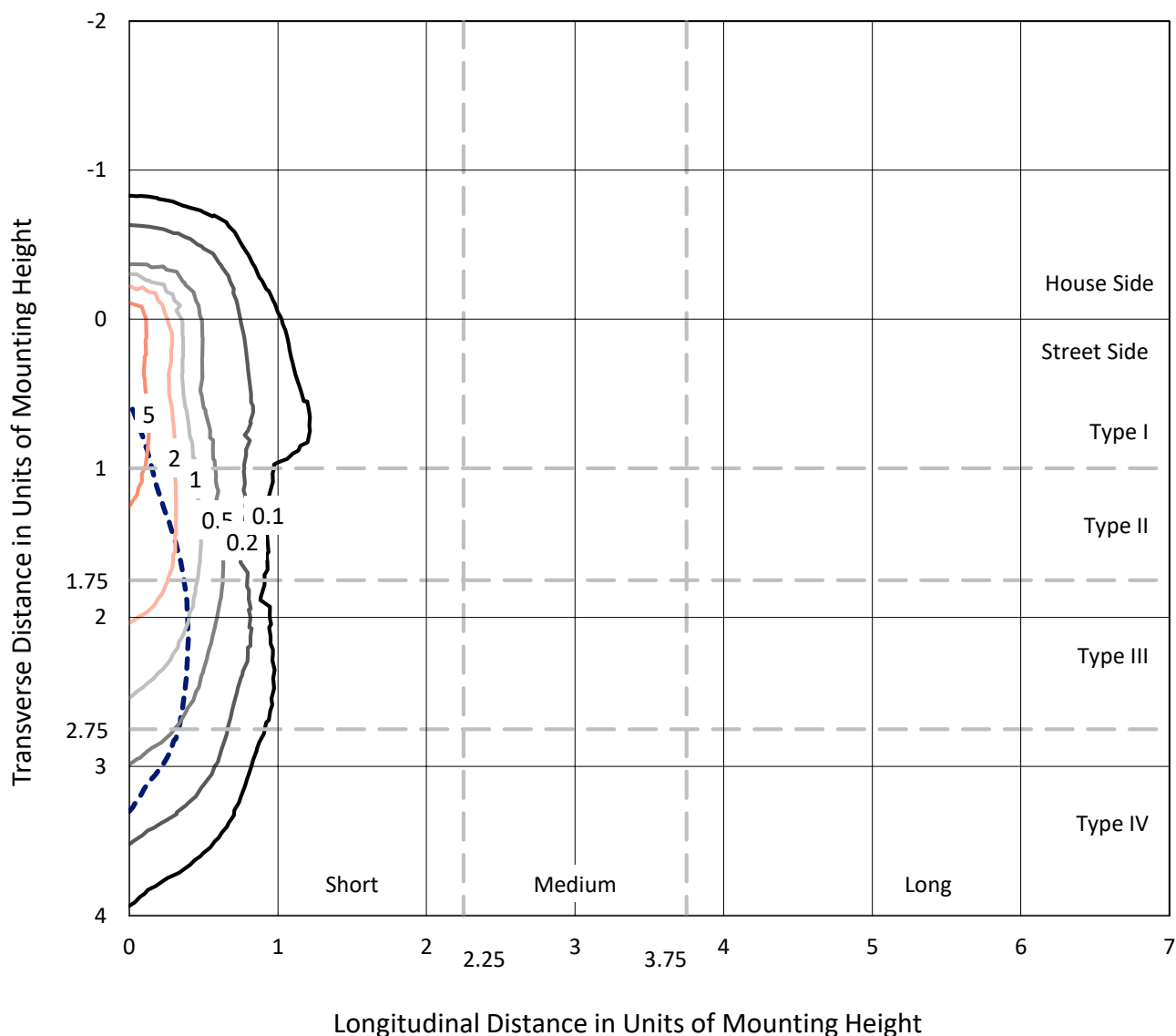
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

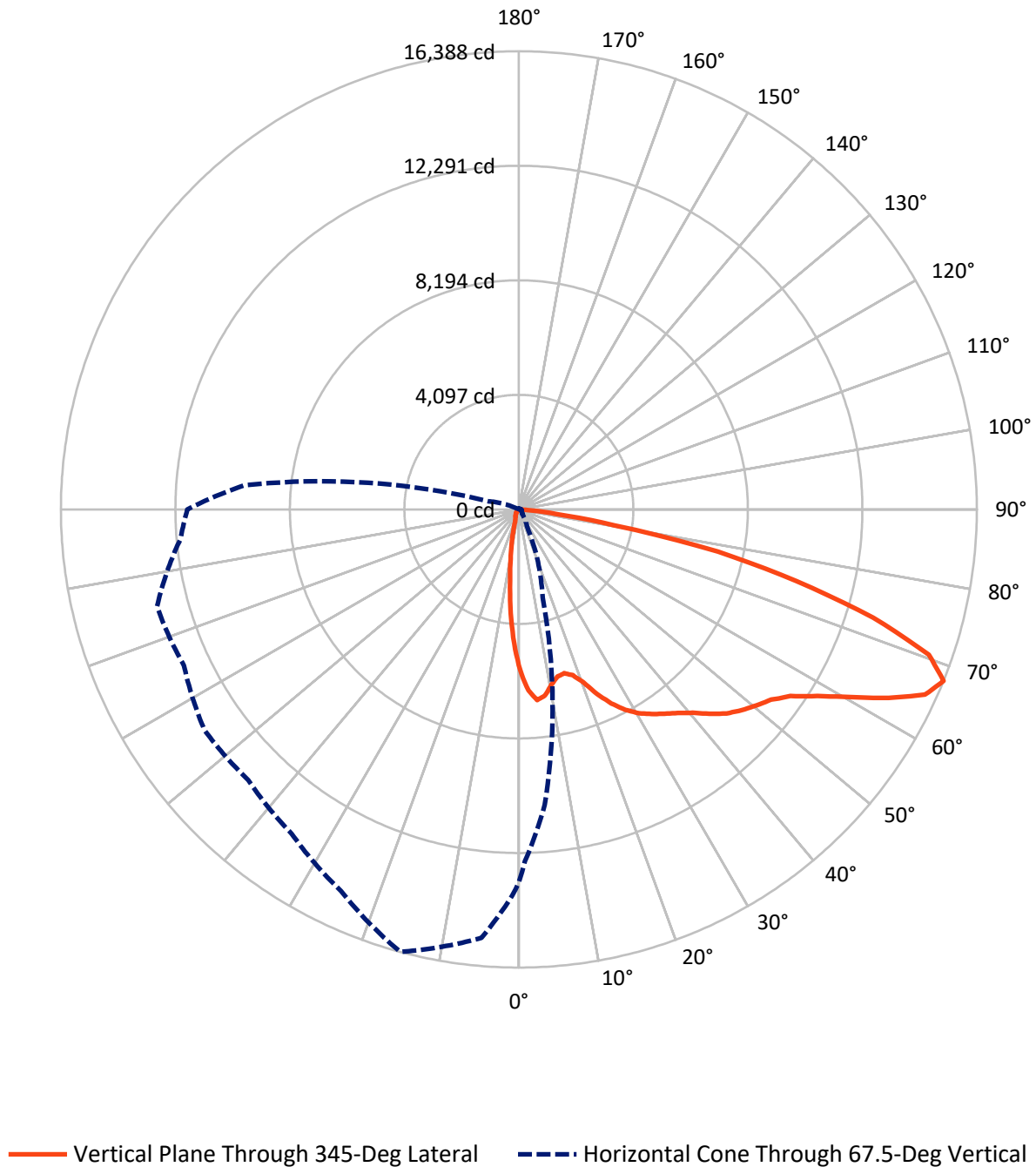
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	2143.0	0.0	2143.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	15563.0	0.0	15563.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	17706.0	0.0	17706.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.7	2.5
10°-20°	881.1	5.0
20°-30°	1251.2	7.1
30°-40°	1848.1	10.4
40°-50°	2665.3	15.1
50°-60°	3741.6	21.1
60°-70°	4361.6	24.6
70°-80°	2229.7	12.6
80°-90°	284.8	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°	17706.0	100.0
0°-180°	17706.0	100.0

Coefficient of Utilization



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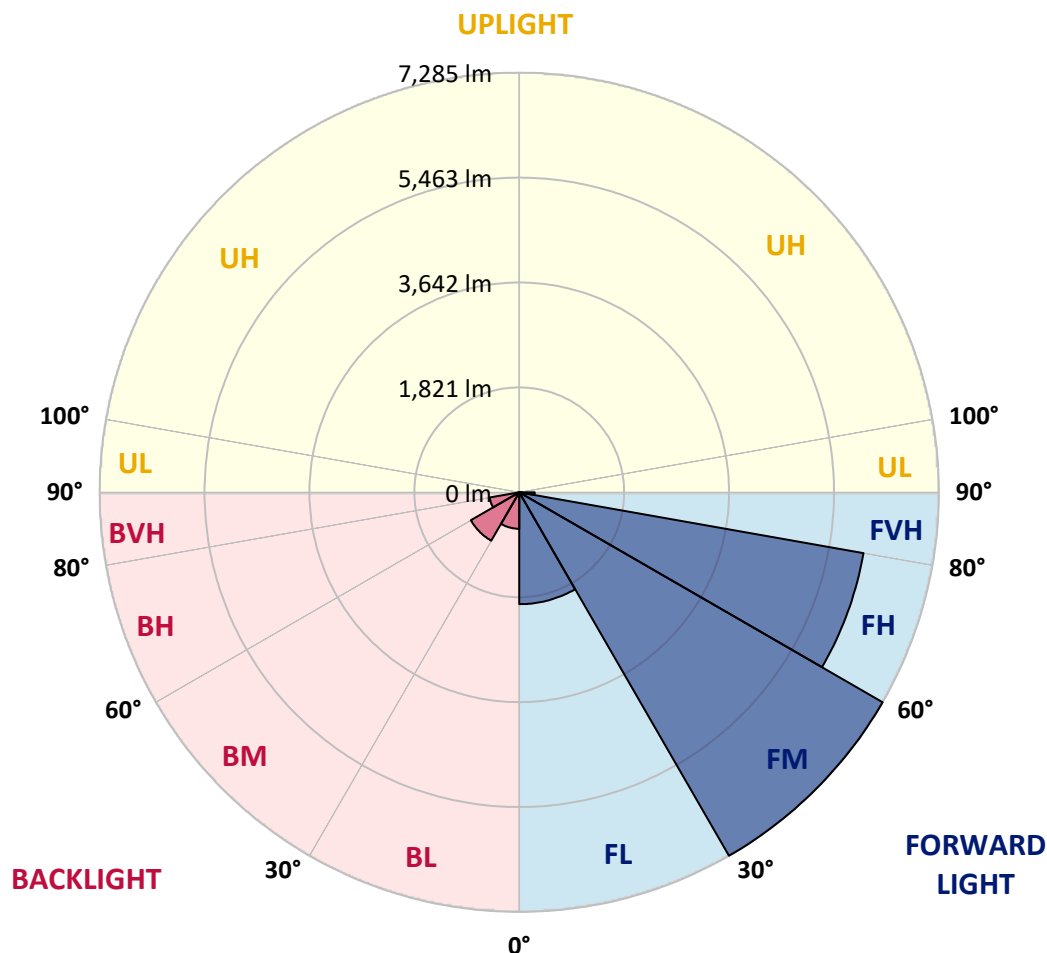
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1942.0	11.0			
FM	(30°-60°)	7284.5	41.1			
FH	(60°-80°)	6069.0	34.3			G3/7500
FVH	(80°-90°)	267.5	1.5			G3/500
BL	(0°-30°)	633.0	3.6	B2/1000		
BM	(30°-60°)	970.4	5.5	B1/1000		
BH	(60°-80°)	522.3	2.9	B2/1000		G2/1000
BVH	(80°-90°)	17.3	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7
2.5°	6315.4	6266.8	6213.1	6037.8	5875.1	5688.8	5537.0	5431.3	5298.8	5126.8	5083.2
5°	6270.1	6218.1	6049.5	5659.5	5318.1	4985.9	4665.5	4477.6	4244.4	4007.9	3949.1
7.5°	5814.7	5760.1	5516.9	4982.6	4522.9	4043.1	3627.0	3369.5	3106.1	2889.7	2774.8
10°	5340.7	5281.2	5007.7	4359.3	3793.1	3359.5	3054.1	2808.4	2559.2	2327.7	2143.2
12.5°	5014.4	4936.4	4639.5	3904.7	3411.5	3117.0	2831.8	2537.4	2200.2	1951.9	1748.9
15°	4877.7	4788.8	4475.1	3729.4	3276.4	2930.8	2559.2	2197.7	1802.6	1518.3	1332.0
17.5°	4983.4	4867.6	4531.3	3717.6	3107.0	2636.4	2166.7	1742.2	1313.6	1025.9	893.3
20°	5342.4	5190.6	4763.6	3714.3	2901.5	2286.6	1691.1	1211.2	865.7	696.2	626.6
22.5°	5907.8	5707.3	5097.5	3741.1	2689.2	1919.2	1221.3	822.9	650.1	562.0	520.9
25°	6590.6	6358.2	5578.1	3835.9	2503.0	1561.9	887.5	650.1	548.6	484.0	449.6
27.5°	7239.8	7051.1	6185.4	3972.6	2358.7	1273.3	720.5	551.1	468.9	426.1	398.4
30°	7888.2	7650.8	6808.7	4135.4	2185.1	1077.9	633.3	502.5	420.2	375.0	357.3
32.5°	8359.6	8162.5	7296.9	4252.8	1999.7	950.4	566.2	459.7	392.6	346.4	320.4
35°	8914.1	8691.0	7715.4	4278.8	1880.6	869.9	509.2	413.5	340.6	299.5	271.8
37.5°	9513.0	9235.4	8198.6	4221.8	1787.5	830.4	466.4	392.6	317.9	276.0	246.6
40°	10175.7	9862.0	8662.4	4139.6	1696.1	817.0	433.7	376.6	300.3	257.5	227.3
42.5°	10873.6	10503.7	9064.2	4053.2	1638.2	770.9	430.3	360.7	286.9	240.7	210.5
45°	11459.9	11084.9	9476.9	4024.6	1597.1	720.5	444.6	349.8	277.6	227.3	198.0
47.5°	11927.1	11572.3	9899.7	4088.4	1573.6	674.4	405.1	364.0	272.6	215.6	187.1
50°	12484.9	12083.1	10495.3	4278.8	1539.2	628.3	366.6	416.9	272.6	208.0	177.8
52.5°	13184.5	12786.9	11159.6	4574.1	1470.4	564.5	329.7	417.7	275.1	198.0	166.1
55°	14064.4	13775.9	12108.3	4897.8	1360.6	470.6	285.2	359.0	265.1	179.5	155.2
57.5°	14908.3	14672.6	12973.1	5119.3	1213.8	367.4	248.3	289.4	242.4	157.7	138.4
59°	15138.9	14881.4	13290.2	5129.4	1103.9	320.4	229.8	239.1	237.4	147.6	128.3
60°	15138.9	14865.5	13381.6	5075.7	1024.2	294.4	218.1	213.1	247.5	140.9	122.5
62.5°	14864.7	14480.5	13084.7	4712.5	835.5	250.8	190.4	176.2	222.3	126.7	108.2
65°	14294.3	13734.8	12073.1	4055.7	744.9	229.8	164.4	144.3	154.3	111.6	94.8
67.5°	13343.0	12584.8	10614.4	3276.4	708.8	224.0	141.8	122.5	116.6	95.6	83.0
70°	11667.9	10826.6	8843.6	2576.0	677.8	221.4	119.1	103.2	93.9	80.5	70.5
72.5°	8492.2	7614.8	6278.5	2014.0	659.3	226.5	95.6	86.4	77.2	62.9	54.5
75°	4857.6	4283.0	3528.9	1330.4	562.0	216.4	73.8	72.1	55.4	45.3	37.7
77.5°	2509.7	2433.4	2114.7	510.8	269.3	94.8	48.7	41.9	32.7	27.7	22.6
80°	1082.9	1071.2	926.9	147.6	71.3	52.8	27.7	17.6	15.1	11.7	9.2
82.5°	374.1	374.1	329.7	49.5	31.9	26.0	3.4	0.0	0.0	0.0	0.0
85°	75.5	84.7	59.6	0.0	10.9	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°	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7
2.5°	5030.4	4928.9	4922.2	4858.4	4778.7	4742.7	4721.7	4758.6	4803.9	4808.9	4876.9
5°	3904.7	3798.2	3842.6	3729.4	3752.0	3729.4	3692.5	3699.2	3719.3	3656.4	3734.4
7.5°	2742.1	2661.6	2712.7	2682.5	2722.8	2738.7	2716.1	2682.5	2583.6	2571.8	2639.8
10°	2066.8	1975.4	1920.9	1863.8	1876.4	1902.4	1894.0	1869.7	1806.8	1810.2	1875.6
12.5°	1660.9	1558.5	1450.3	1310.2	1275.8	1295.1	1275.8	1261.6	1201.2	1206.2	1264.1
15°	1259.9	1176.0	1062.8	950.4	889.1	895.0	841.3	803.6	765.8	720.5	755.8
17.5°	850.6	799.4	765.8	732.3	659.3	642.5	574.6	501.6	473.1	452.1	467.2
20°	602.3	574.6	561.2	559.5	517.5	496.6	430.3	385.0	370.8	366.6	375.8
22.5°	503.3	483.2	463.9	453.0	432.0	407.7	357.3	334.7	324.6	319.6	326.3
25°	437.9	422.8	402.6	384.2	375.8	349.8	313.7	296.9	290.2	285.2	288.6
27.5°	389.2	375.8	352.3	340.6	333.8	311.2	280.2	266.7	260.9	259.2	258.4
30°	350.6	338.0	316.2	302.8	291.1	270.9	252.5	239.1	233.2	231.5	229.8
32.5°	312.0	302.0	287.7	274.3	261.7	243.3	227.3	216.4	207.2	205.5	204.7
35°	263.4	253.3	245.8	244.9	233.2	215.6	203.8	189.6	182.0	179.5	180.3
37.5°	234.0	220.6	203.8	209.7	206.3	193.8	177.8	163.6	156.0	154.3	154.3
40°	215.6	201.3	182.0	172.0	182.0	179.5	154.3	140.1	132.5	131.7	130.0
42.5°	198.0	183.7	161.9	145.1	150.1	157.7	133.4	120.0	112.4	110.7	108.2
45°	185.4	170.3	146.0	126.7	116.6	132.5	114.1	97.3	93.1	89.8	88.1
47.5°	173.6	159.4	131.7	109.9	93.1	95.6	91.4	79.7	74.7	71.3	70.5
50°	163.6	148.5	119.1	93.9	77.2	70.5	73.8	62.9	58.7	55.4	53.7
52.5°	151.8	137.6	105.7	81.4	64.6	55.4	56.2	49.5	45.3	42.8	41.9
55°	142.6	128.3	94.8	71.3	57.0	45.3	40.3	38.6	36.1	34.4	33.6
57.5°	130.0	116.6	83.9	60.4	48.7	36.9	31.0	31.0	30.2	28.5	27.7
59°	122.5	110.7	77.2	54.5	44.5	31.9	27.7	28.5	27.7	26.0	25.2
60°	116.6	105.7	72.1	50.3	41.9	29.4	25.2	26.8	26.0	24.3	23.5
62.5°	103.2	95.6	62.1	41.9	36.9	23.5	21.0	22.6	22.6	21.8	21.0
65°	90.6	82.2	52.8	35.2	34.4	20.1	16.8	20.1	21.0	19.3	17.6
67.5°	78.8	70.5	46.1	28.5	31.9	15.9	12.6	16.8	22.6	17.6	15.9
70°	67.1	58.7	36.1	22.6	33.6	10.9	10.1	15.1	26.8	19.3	15.1
72.5°	52.0	45.3	25.2	16.8	36.1	7.5	7.5	12.6	30.2	21.0	14.3
75°	36.1	29.4	15.1	10.1	29.4	5.0	5.0	11.7	28.5	19.3	13.4
77.5°	21.0	15.9	5.0	0.8	15.1	0.0	0.8	8.4	20.1	11.7	5.9
80°	7.5	3.4	0.0	0.0	9.2	0.0	0.0	0.0	1.7	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°	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7
2.5°	4894.5	5007.7	5109.2	5262.7	5444.8	5654.5	5834.8	6028.6	6210.6	6286.1	6338.1
5°	3750.3	3890.4	4054.0	4279.6	4579.9	4949.9	5296.3	5688.0	6109.1	6319.6	6517.6
7.5°	2651.5	2794.1	2997.1	3237.0	3600.2	4040.6	4493.5	5034.6	5605.0	5938.0	6266.0
10°	1906.6	2081.9	2271.5	2599.5	2968.6	3386.3	3852.7	4456.6	5092.5	5461.5	5856.6
12.5°	1297.6	1497.3	1784.2	2151.6	2585.2	2994.6	3399.7	3976.0	4714.1	5079.9	5503.5
15°	778.4	889.1	1192.8	1618.1	2149.9	2659.9	3103.6	3681.6	4468.4	4916.3	5356.7
17.5°	479.8	531.0	696.2	1045.2	1603.8	2248.9	2857.0	3581.7	4503.6	5048.8	5520.2
20°	382.5	402.6	455.5	617.4	1062.8	1795.9	2579.4	3561.6	4791.3	5462.4	5968.2
22.5°	332.2	351.5	386.7	448.8	668.5	1344.6	2316.0	3580.1	5204.0	6082.3	6672.8
25°	292.7	309.5	343.1	394.2	489.9	947.0	2034.1	3662.3	5741.7	6851.4	7478.9
27.5°	261.7	276.0	307.0	354.0	420.2	661.0	1714.5	3762.1	6379.2	7638.3	8257.3
30°	233.2	245.8	273.5	317.1	364.9	508.3	1363.9	3830.0	7017.5	8257.3	8813.4
32.5°	208.9	218.1	243.3	280.2	317.1	405.1	1036.8	3819.1	7491.5	8772.3	9213.6
35°	183.7	192.9	214.7	246.6	276.0	334.7	815.3	3615.3	7904.2	9306.7	9671.5
37.5°	156.0	167.8	188.7	217.3	237.4	294.4	659.3	3369.5	8322.7	9917.3	10182.4
40°	132.5	144.3	162.7	193.8	206.3	279.3	506.6	3070.1	8793.3	10600.1	10742.7
42.5°	109.9	120.8	140.1	166.9	194.6	240.7	375.0	2727.8	9245.4	11183.9	11253.6
45°	88.9	99.8	120.0	146.8	208.0	199.6	290.2	2361.3	9610.3	11669.6	11692.3
47.5°	70.5	80.5	101.5	138.4	193.8	159.4	207.2	2073.6	9916.5	12048.7	11989.2
50°	54.5	62.9	84.7	158.5	169.4	131.7	156.9	1977.9	10190.8	12283.6	12129.3
52.5°	42.8	50.3	69.6	148.5	131.7	109.0	131.7	2067.7	10566.6	12478.2	12208.1
55°	34.4	41.9	54.5	84.7	89.8	92.3	112.4	2151.6	11215.0	12934.5	12673.7
57.5°	28.5	36.1	44.5	59.6	67.9	78.0	99.8	2160.8	11979.1	13692.8	13446.2
59°	26.0	32.7	40.3	52.8	59.6	71.3	93.9	2110.5	12248.4	13968.8	13845.5
60°	24.3	31.0	37.7	48.7	55.4	67.1	90.6	2062.6	12260.1	13958.7	14015.8
62.5°	21.0	27.7	33.6	41.1	47.0	57.0	81.4	1885.7	11763.6	13501.6	13913.4
65°	18.5	24.3	30.2	35.2	40.3	51.2	73.8	1562.7	10915.5	12764.3	13213.0
67.5°	16.8	21.0	27.7	31.0	36.1	45.3	65.4	1113.9	9856.1	11862.5	12153.6
70°	15.1	20.1	25.2	28.5	32.7	39.4	56.2	640.0	8322.7	10542.2	10749.4
72.5°	14.3	19.3	22.6	26.8	29.4	35.2	51.2	301.1	6094.0	8445.2	8986.2
75°	12.6	17.6	21.0	25.2	27.7	31.9	43.6	144.3	4053.2	6111.6	6726.5
77.5°	7.5	14.3	19.3	22.6	24.3	27.7	36.1	83.0	2586.9	4230.1	4982.6
80°	0.0	5.0	14.3	19.3	21.0	23.5	27.7	65.4	1384.0	2416.6	2900.6
82.5°	0.0	0.0	10.1	15.1	14.3	15.9	21.0	41.1	624.1	1579.5	1780.0
85°	0.0	0.0	3.4	11.7	10.1	7.5	14.3	14.3	136.7	799.4	997.4
87.5°	0.0	0.0	0.0	0.8	5.0	3.4	5.9	1.7	0.8	59.6	241.6
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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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7	5767.7
2.5°	6520.1	6582.2	6687.0	6736.5	6712.2	6609.0	6485.7	6359.9	6286.1	6315.4
5°	6921.1	7240.7	7425.2	7486.4	7384.1	7152.6	6849.8	6450.5	6308.7	6270.1
7.5°	6921.1	7522.5	7903.3	7970.4	7742.3	7288.5	6720.6	6097.4	5890.2	5814.7
10°	6677.8	7496.5	8027.5	8134.0	7815.2	7136.6	6375.8	5664.5	5418.7	5340.7
12.5°	6403.5	7285.1	7844.6	7991.4	7729.7	6985.7	6136.8	5371.8	5082.4	5014.4
15°	6234.9	7025.1	7488.1	7594.6	7483.9	6897.6	6079.7	5283.7	4943.1	4877.7
17.5°	6295.3	6823.8	6990.7	7052.8	7127.4	6866.5	6234.9	5476.6	5045.5	4983.4
20°	6522.6	6611.5	6525.1	6603.2	6804.5	6896.7	6604.8	5943.0	5425.5	5342.4
22.5°	6908.5	6501.7	6259.2	6290.3	6535.2	6996.6	7170.2	6609.0	6011.8	5907.8
25°	7358.1	6590.6	6111.6	6083.9	6335.6	7128.3	7686.9	7333.8	6705.5	6590.6
27.5°	7923.5	6790.2	6081.4	6053.7	6266.0	7251.6	8116.4	8050.1	7436.1	7239.8
30°	8359.6	6986.5	6171.2	6107.4	6335.6	7337.1	8461.1	8658.3	8018.2	7888.2
32.5°	8672.5	7218.0	6317.1	6224.9	6531.9	7484.8	8727.0	9215.2	8556.8	8359.6
35°	8910.7	7469.7	6552.8	6401.0	6802.0	7708.7	8976.2	9808.3	9129.7	8914.1
37.5°	9133.9	7822.8	6921.1	6739.9	7225.6	8069.4	9239.6	10481.0	9770.5	9513.0
40°	9445.1	8222.9	7488.9	7327.9	7937.7	8561.0	9568.4	11182.3	10499.5	10175.7
42.5°	9756.3	8652.4	8070.2	8113.9	8826.0	9158.2	9992.8	11923.8	11219.2	10873.6
45°	10040.6	9095.3	8898.2	9099.5	9650.6	9813.3	10414.7	12352.4	11793.7	11459.9
47.5°	10293.9	9648.9	9721.0	10257.0	10588.4	10406.3	10730.1	12722.3	12221.5	11927.1
50°	10588.4	10365.2	10805.6	11563.9	11667.9	10943.2	11017.0	13160.2	12721.5	12484.9
52.5°	10910.5	11120.2	12006.8	12675.3	12641.8	11526.2	11305.6	13650.9	13406.8	13184.5
55°	11276.2	11730.0	13064.6	13715.5	13687.0	12177.1	11783.7	14257.4	14265.7	14064.4
57.5°	11818.9	12255.1	13782.6	14556.8	14604.6	12928.7	12594.0	14936.8	15042.5	14908.3
59°	12208.1	12595.7	14066.9	14908.3	15102.9	13510.0	13186.2	15331.0	15261.4	15138.9
60°	12496.7	12812.1	14207.9	15092.0	15392.3	13904.2	13623.2	15562.5	15287.4	15138.9
62.5°	13210.5	13283.5	14462.0	15300.0	15725.3	14779.9	14852.9	15956.8	15107.1	14864.7
65°	13543.5	13581.3	14458.7	14927.6	15403.2	15461.9	15968.5	15968.5	14666.7	14294.3
67.5°	13404.3	13222.3	13741.5	13692.8	14167.6	15056.7	16387.9	15383.0	13824.5	13343.0
70°	12271.9	11571.5	11340.8	11361.8	11725.0	13096.4	15557.5	13660.1	12230.8	11667.9
72.5°	10210.9	8530.8	7961.2	8611.3	8706.1	10064.9	13258.3	10287.2	9019.8	8492.2
75°	8212.8	6013.5	5087.4	5773.6	5934.6	7365.6	10256.2	6406.9	5268.6	4857.6
77.5°	5900.2	4316.5	3650.5	3602.7	3810.7	4671.4	7277.6	3224.4	2689.2	2509.7
80°	3351.9	2841.1	3059.2	2886.4	2991.2	2920.8	3457.6	1414.2	1158.4	1082.9
82.5°	2023.2	1679.3	1818.6	1514.1	1915.9	1668.4	1332.0	453.0	393.4	374.1
85°	1316.1	917.7	478.1	320.4	660.1	1066.1	297.8	123.3	94.8	75.5
87.5°	453.8	234.0	23.5	10.1	70.5	198.8	10.9	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)