

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: P324407

Luminaire Tested: **GAN-SA3C-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324407
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-SA3C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 13387 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

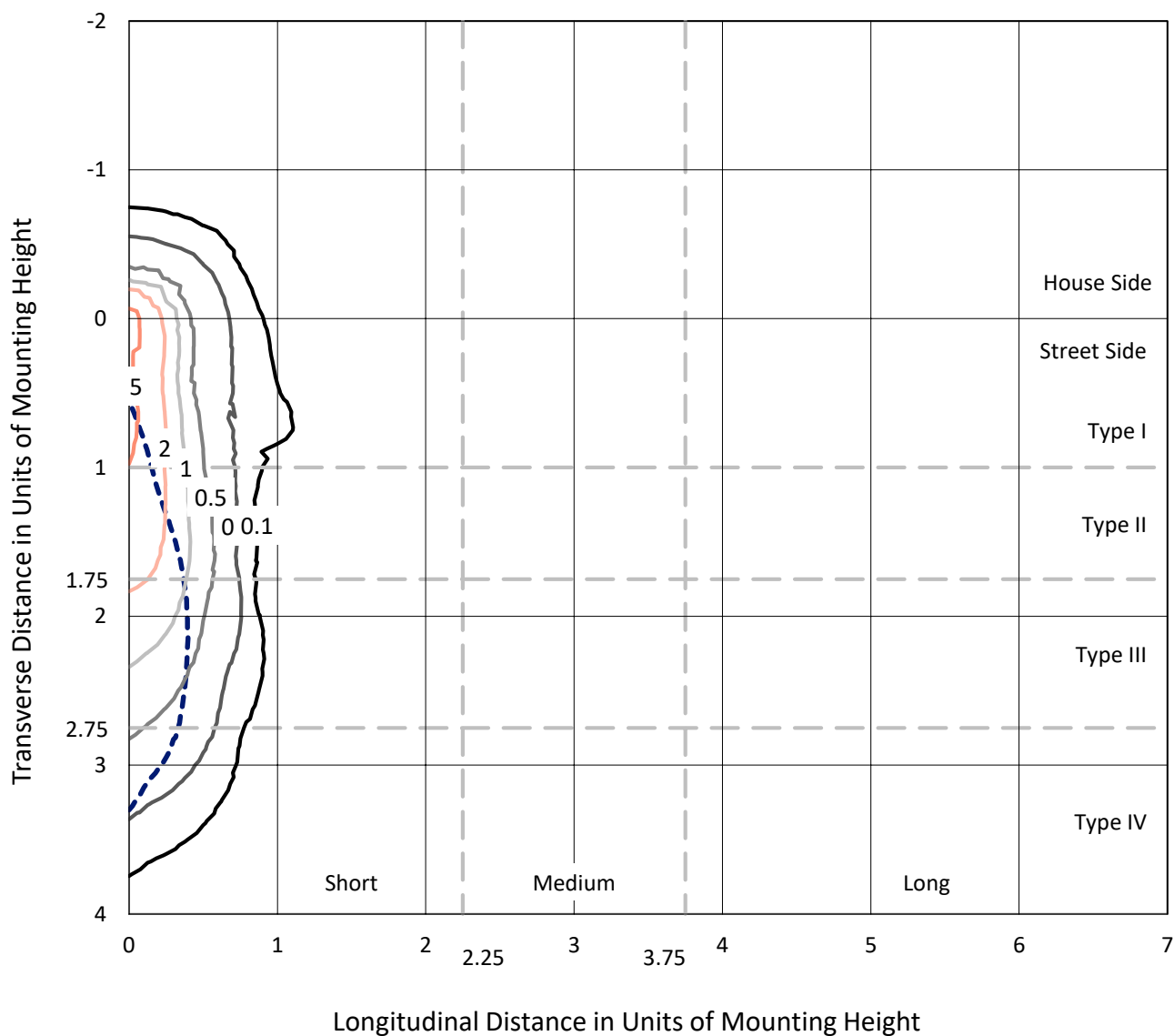
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

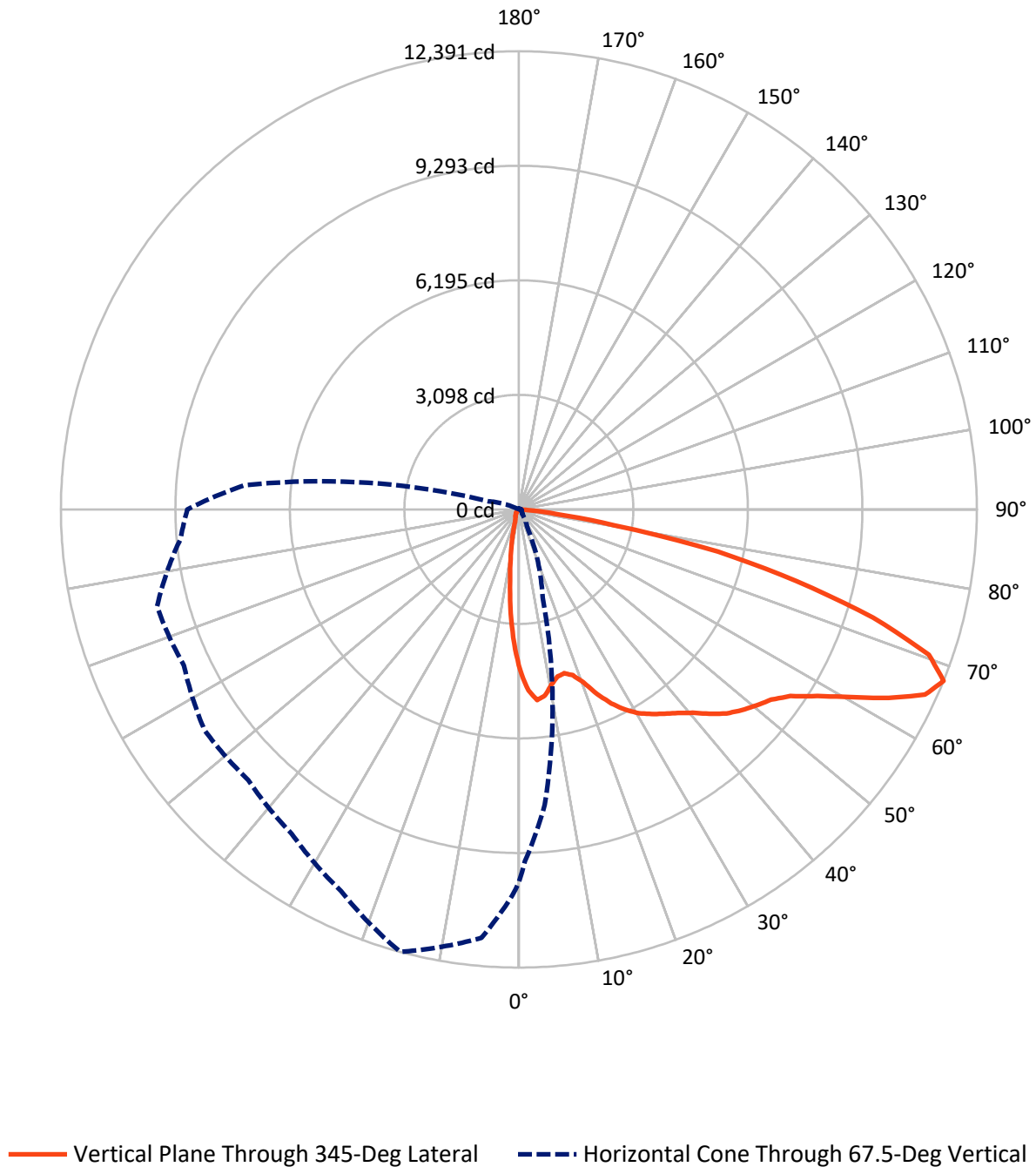
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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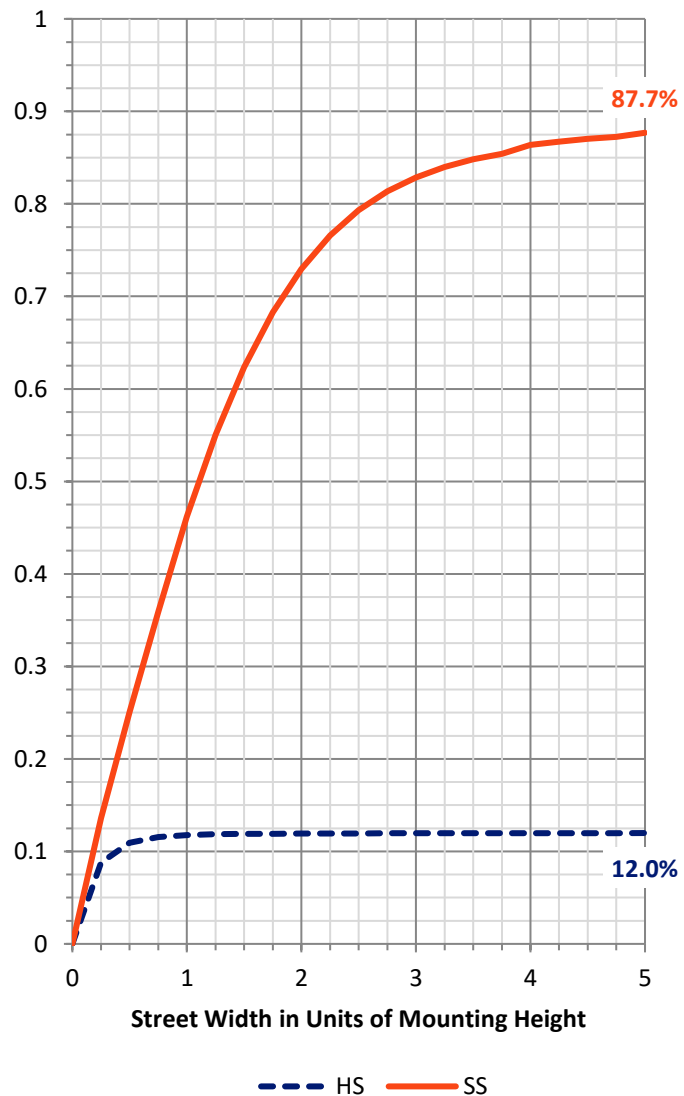
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1620.3	0.0	1620.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	11766.7	0.0	11766.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	13387.0	0.0	13387.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.7	2.5
10°-20°	666.2	5.0
20°-30°	946.0	7.1
30°-40°	1397.3	10.4
40°-50°	2015.2	15.1
50°-60°	2828.9	21.1
60°-70°	3297.7	24.6
70°-80°	1685.8	12.6
80°-90°	215.3	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°	13387.0	100.0
0°-180°	13387.0	100.0

Coefficient of Utilization



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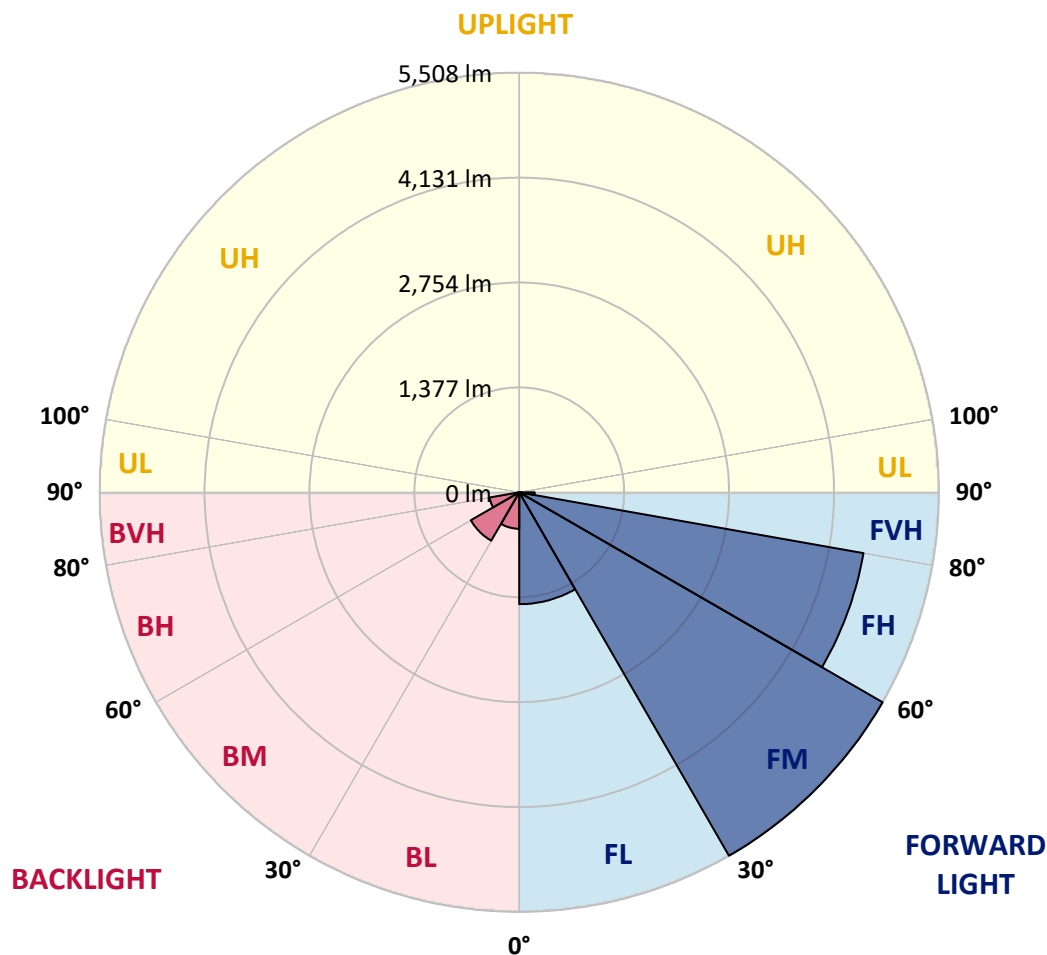
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1468.3	11.0			
FM	(30°-60°)	5507.6	41.1			
FH	(60°-80°)	4588.6	34.3			G2/5000
FVH	(80°-90°)	202.2	1.5			G2/225
BL	(0°-30°)	478.6	3.6	B1/500		
BM	(30°-60°)	733.7	5.5	B1/1000		
BH	(60°-80°)	394.9	2.9	B1/500		G1/500
BVH	(80°-90°)	13.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8
2.5°	4774.9	4738.1	4697.6	4565.0	4442.0	4301.2	4186.4	4106.5	4006.3	3876.3	3843.3
5°	4740.7	4701.4	4573.9	4279.0	4020.9	3769.7	3527.4	3385.4	3209.1	3030.2	2985.8
7.5°	4396.3	4355.1	4171.2	3767.2	3419.6	3056.9	2742.3	2547.6	2348.5	2184.8	2097.9
10°	4038.0	3993.0	3786.2	3296.0	2867.9	2540.0	2309.1	2123.3	1935.0	1759.9	1620.4
12.5°	3791.3	3732.3	3507.8	2952.2	2579.3	2356.7	2141.1	1918.5	1663.5	1475.8	1322.3
15°	3687.9	3620.7	3383.5	2819.7	2477.2	2215.9	1935.0	1661.6	1362.9	1147.9	1007.1
17.5°	3767.8	3680.3	3426.0	2810.8	2349.1	1993.3	1638.2	1317.2	993.2	775.6	675.4
20°	4039.2	3924.5	3601.6	2808.3	2193.7	1728.8	1278.6	915.8	654.5	526.4	473.8
22.5°	4466.7	4315.1	3854.1	2828.6	2033.3	1451.1	923.4	622.2	491.5	424.9	393.8
25°	4982.9	4807.3	4217.5	2900.2	1892.5	1180.9	671.0	491.5	414.8	365.9	339.9
27.5°	5473.8	5331.1	4676.6	3003.6	1783.4	962.7	544.8	416.7	354.5	322.2	301.2
30°	5964.1	5784.6	5147.8	3126.6	1652.1	815.0	478.8	379.9	317.7	283.5	270.2
32.5°	6320.5	6171.4	5516.9	3215.4	1511.9	718.6	428.1	347.5	296.8	261.9	242.3
35°	6739.7	6571.0	5833.4	3235.1	1421.9	657.7	385.0	312.7	257.5	226.4	205.5
37.5°	7192.5	6982.6	6198.7	3192.0	1351.5	627.9	352.6	296.8	240.4	208.7	186.5
40°	7693.5	7456.3	6549.4	3129.8	1282.4	617.7	327.9	284.8	227.0	194.7	171.9
42.5°	8221.2	7941.5	6853.2	3064.5	1238.6	582.8	325.3	272.7	216.9	182.0	159.2
45°	8664.5	8381.0	7165.2	3042.9	1207.5	544.8	336.1	264.5	209.9	171.9	149.7
47.5°	9017.8	8749.5	7484.9	3091.1	1189.8	509.9	306.3	275.2	206.1	163.0	141.4
50°	9439.5	9135.7	7935.2	3235.1	1163.8	475.0	277.1	315.2	206.1	157.3	134.5
52.5°	9968.4	9667.8	8437.5	3458.3	1111.8	426.8	249.2	315.8	208.0	149.7	125.6
55°	10633.7	10415.5	9154.7	3703.1	1028.7	355.8	215.6	271.4	200.4	135.7	117.3
57.5°	11271.7	11093.5	9808.6	3870.6	917.7	277.8	187.7	218.8	183.3	119.2	104.6
59°	11446.1	11251.4	10048.3	3878.2	834.6	242.3	173.8	180.7	179.5	111.6	97.0
60°	11446.1	11239.4	10117.5	3837.6	774.4	222.6	164.9	161.1	187.1	106.5	92.6
62.5°	11238.7	10948.3	9893.0	3563.0	631.7	189.6	144.0	133.2	168.1	95.8	81.8
65°	10807.5	10384.5	9128.1	3066.4	563.2	173.8	124.3	109.1	116.7	84.3	71.7
67.5°	10088.3	9515.0	8025.2	2477.2	535.9	169.3	107.2	92.6	88.2	72.3	62.8
70°	8821.8	8185.7	6686.4	1947.6	512.4	167.4	90.1	78.0	71.0	60.9	53.3
72.5°	6420.7	5757.3	4747.0	1522.7	498.5	171.2	72.3	65.3	58.3	47.6	41.2
75°	3672.7	3238.2	2668.1	1005.8	424.9	163.6	55.8	54.5	41.9	34.2	28.5
77.5°	1897.5	1839.8	1598.8	386.2	203.6	71.7	36.8	31.7	24.7	20.9	17.1
80°	818.8	809.9	700.8	111.6	53.9	40.0	20.9	13.3	11.4	8.9	7.0
82.5°	282.9	282.9	249.2	37.4	24.1	19.7	2.5	0.0	0.0	0.0	0.0
85°	57.1	64.1	45.0	0.0	8.2	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°	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8
2.5°	3803.3	3726.6	3721.5	3673.3	3613.1	3585.8	3569.9	3597.8	3632.1	3635.9	3687.3
5°	2952.2	2871.7	2905.3	2819.7	2836.8	2819.7	2791.8	2796.8	2812.1	2764.5	2823.5
7.5°	2073.2	2012.3	2051.0	2028.2	2058.6	2070.7	2053.6	2028.2	1953.3	1944.5	1995.8
10°	1562.7	1493.6	1452.3	1409.2	1418.7	1438.4	1432.0	1413.6	1366.1	1368.6	1418.1
12.5°	1255.7	1178.4	1096.5	990.6	964.6	979.2	964.6	953.8	908.2	912.0	955.7
15°	952.6	889.2	803.5	718.6	672.3	676.7	636.1	607.6	579.0	544.8	571.4
17.5°	643.1	604.4	579.0	553.7	498.5	485.8	434.4	379.3	357.7	341.8	353.3
20°	455.4	434.4	424.3	423.0	391.3	375.4	325.3	291.1	280.3	277.1	284.1
22.5°	380.5	365.3	350.7	342.5	326.6	308.2	270.2	253.0	245.4	241.6	246.7
25°	331.1	319.6	304.4	290.5	284.1	264.5	237.2	224.5	219.4	215.6	218.2
27.5°	294.3	284.1	266.4	257.5	252.4	235.3	211.8	201.7	197.2	196.0	195.3
30°	265.1	255.6	239.1	228.9	220.1	204.8	190.9	180.7	176.3	175.0	173.8
32.5°	235.9	228.3	217.5	207.4	197.9	183.9	171.9	163.6	156.6	155.4	154.7
35°	199.1	191.5	185.8	185.2	176.3	163.0	154.1	143.3	137.6	135.7	136.4
37.5°	176.9	166.8	154.1	158.6	156.0	146.5	134.5	123.7	118.0	116.7	116.7
40°	163.0	152.2	137.6	130.0	137.6	135.7	116.7	105.9	100.2	99.6	98.3
42.5°	149.7	138.9	122.4	109.7	113.5	119.2	100.8	90.7	85.0	83.7	81.8
45°	140.2	128.7	110.4	95.8	88.2	100.2	86.3	73.6	70.4	67.9	66.6
47.5°	131.3	120.5	99.6	83.1	70.4	72.3	69.1	60.2	56.4	53.9	53.3
50°	123.7	112.3	90.1	71.0	58.3	53.3	55.8	47.6	44.4	41.9	40.6
52.5°	114.8	104.0	79.9	61.5	48.8	41.9	42.5	37.4	34.2	32.3	31.7
55°	107.8	97.0	71.7	53.9	43.1	34.2	30.4	29.2	27.3	26.0	25.4
57.5°	98.3	88.2	63.4	45.7	36.8	27.9	23.5	23.5	22.8	21.6	20.9
59°	92.6	83.7	58.3	41.2	33.6	24.1	20.9	21.6	20.9	19.7	19.0
60°	88.2	79.9	54.5	38.1	31.7	22.2	19.0	20.3	19.7	18.4	17.8
62.5°	78.0	72.3	46.9	31.7	27.9	17.8	15.9	17.1	17.1	16.5	15.9
65°	68.5	62.2	40.0	26.6	26.0	15.2	12.7	15.2	15.9	14.6	13.3
67.5°	59.6	53.3	34.9	21.6	24.1	12.0	9.5	12.7	17.1	13.3	12.0
70°	50.7	44.4	27.3	17.1	25.4	8.2	7.6	11.4	20.3	14.6	11.4
72.5°	39.3	34.2	19.0	12.7	27.3	5.7	5.7	9.5	22.8	15.9	10.8
75°	27.3	22.2	11.4	7.6	22.2	3.8	3.8	8.9	21.6	14.6	10.1
77.5°	15.9	12.0	3.8	0.6	11.4	0.0	0.6	6.3	15.2	8.9	4.4
80°	5.7	2.5	0.0	0.0	7.0	0.0	0.0	0.0	1.3	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°	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8
2.5°	3700.6	3786.2	3862.9	3979.0	4116.6	4275.2	4411.5	4558.0	4695.7	4752.7	4792.0
5°	2835.5	2941.4	3065.1	3235.7	3462.8	3742.4	4004.4	4300.5	4618.9	4778.1	4927.8
7.5°	2004.7	2112.5	2266.0	2447.4	2722.0	3055.0	3397.4	3806.5	4237.8	4489.5	4737.5
10°	1441.5	1574.1	1717.4	1965.4	2244.4	2560.3	2912.9	3369.5	3850.3	4129.3	4428.0
12.5°	981.1	1132.1	1349.0	1626.7	1954.6	2264.1	2570.4	3006.1	3564.2	3840.7	4161.0
15°	588.5	672.3	901.8	1223.4	1625.5	2011.1	2346.6	2783.5	3378.4	3717.1	4050.0
17.5°	362.8	401.5	526.4	790.2	1212.6	1700.3	2160.1	2708.1	3405.0	3817.3	4173.7
20°	289.2	304.4	344.4	466.8	803.5	1357.8	1950.2	2692.8	3622.6	4129.9	4512.4
22.5°	251.1	265.7	292.4	339.3	505.5	1016.6	1751.0	2706.8	3934.6	4598.6	5045.1
25°	221.3	234.0	259.4	298.1	370.4	716.0	1537.9	2768.9	4341.1	5180.2	5654.6
27.5°	197.9	208.7	232.1	267.6	317.7	499.8	1296.3	2844.4	4823.1	5775.1	6243.1
30°	176.3	185.8	206.8	239.7	275.9	384.3	1031.2	2895.8	5305.8	6243.1	6663.6
32.5°	157.9	164.9	183.9	211.8	239.7	306.3	783.9	2887.5	5664.1	6632.5	6966.1
35°	138.9	145.9	162.4	186.5	208.7	253.0	616.4	2733.4	5976.1	7036.5	7312.4
37.5°	118.0	126.8	142.7	164.3	179.5	222.6	498.5	2547.6	6292.6	7498.2	7698.6
40°	100.2	109.1	123.0	146.5	156.0	211.2	383.1	2321.2	6648.4	8014.4	8122.3
42.5°	83.1	91.3	105.9	126.2	147.1	182.0	283.5	2062.4	6990.2	8455.8	8508.5
45°	67.2	75.5	90.7	111.0	157.3	150.9	219.4	1785.3	7266.1	8823.1	8840.2
47.5°	53.3	60.9	76.7	104.6	146.5	120.5	156.6	1567.8	7497.6	9109.7	9064.7
50°	41.2	47.6	64.1	119.9	128.1	99.6	118.6	1495.5	7705.0	9287.3	9170.6
52.5°	32.3	38.1	52.6	112.3	99.6	82.4	99.6	1563.3	7989.1	9434.4	9230.2
55°	26.0	31.7	41.2	64.1	67.9	69.8	85.0	1626.7	8479.3	9779.4	9582.2
57.5°	21.6	27.3	33.6	45.0	51.4	59.0	75.5	1633.7	9057.1	10352.8	10166.3
59°	19.7	24.7	30.4	40.0	45.0	53.9	71.0	1595.7	9260.7	10561.4	10468.2
60°	18.4	23.5	28.5	36.8	41.9	50.7	68.5	1559.5	9269.5	10553.8	10596.9
62.5°	15.9	20.9	25.4	31.1	35.5	43.1	61.5	1425.7	8894.1	10208.2	10519.6
65°	14.0	18.4	22.8	26.6	30.4	38.7	55.8	1181.5	8252.9	9650.7	9990.0
67.5°	12.7	15.9	20.9	23.5	27.3	34.2	49.5	842.2	7451.9	8968.9	9189.0
70°	11.4	15.2	19.0	21.6	24.7	29.8	42.5	483.9	6292.6	7970.7	8127.3
72.5°	10.8	14.6	17.1	20.3	22.2	26.6	38.7	227.7	4607.5	6385.2	6794.2
75°	9.5	13.3	15.9	19.0	20.9	24.1	33.0	109.1	3064.5	4620.8	5085.7
77.5°	5.7	10.8	14.6	17.1	18.4	20.9	27.3	62.8	1955.9	3198.3	3767.2
80°	0.0	3.8	10.8	14.6	15.9	17.8	20.9	49.5	1046.4	1827.1	2193.1
82.5°	0.0	0.0	7.6	11.4	10.8	12.0	15.9	31.1	471.8	1194.2	1345.8
85°	0.0	0.0	2.5	8.9	7.6	5.7	10.8	10.8	103.4	604.4	754.1
87.5°	0.0	0.0	0.0	0.6	3.8	2.5	4.4	1.3	0.6	45.0	182.7
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°	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8
2.5°	4929.7	4976.6	5055.9	5093.3	5074.9	4996.9	4903.7	4808.5	4752.7	4774.9
5°	5232.8	5474.5	5614.0	5660.3	5582.9	5407.9	5178.9	4877.0	4769.9	4740.7
7.5°	5232.8	5687.5	5975.5	6026.2	5853.7	5510.6	5081.2	4610.0	4453.4	4396.3
10°	5048.9	5667.9	6069.3	6149.9	5908.9	5395.8	4820.6	4282.8	4097.0	4038.0
12.5°	4841.5	5508.1	5931.1	6042.1	5844.2	5281.7	4639.8	4061.4	3842.6	3791.3
15°	4714.0	5311.5	5661.5	5742.1	5658.4	5215.1	4596.7	3994.9	3737.4	3687.9
17.5°	4759.7	5159.3	5285.5	5332.4	5388.8	5191.6	4714.0	4140.7	3814.7	3767.8
20°	4931.6	4998.8	4933.5	4992.5	5144.7	5214.4	4993.7	4493.3	4102.0	4039.2
22.5°	5223.3	4915.7	4732.4	4755.9	4941.1	5289.9	5421.2	4996.9	4545.3	4466.7
25°	5563.2	4982.9	4620.8	4599.9	4790.1	5389.5	5811.9	5544.9	5069.8	4982.9
27.5°	5990.7	5133.9	4598.0	4577.1	4737.5	5482.7	6136.6	6086.5	5622.2	5473.8
30°	6320.5	5282.3	4665.8	4617.6	4790.1	5547.4	6397.2	6546.3	6062.4	5964.1
32.5°	6557.0	5457.3	4776.2	4706.4	4938.6	5659.0	6598.3	6967.4	6469.5	6320.5
35°	6737.2	5647.6	4954.4	4839.6	5142.8	5828.3	6786.6	7415.8	6902.7	6739.7
37.5°	6905.9	5914.6	5232.8	5095.8	5463.0	6101.0	6985.8	7924.4	7387.2	7192.5
40°	7141.1	6217.1	5662.2	5540.4	6001.5	6472.7	7234.4	8454.6	7938.3	7693.5
42.5°	7376.4	6541.8	6101.7	6134.7	6673.1	6924.2	7555.3	9015.2	8482.5	8221.2
45°	7591.4	6876.7	6727.6	6879.9	7296.5	7419.6	7874.3	9339.3	8916.9	8664.5
47.5°	7783.0	7295.3	7349.8	7755.1	8005.6	7867.9	8112.7	9619.0	9240.4	9017.8
50°	8005.6	7836.9	8169.8	8743.1	8821.8	8273.8	8329.6	9950.0	9618.3	9439.5
52.5°	8249.1	8407.6	9078.0	9583.5	9558.1	8714.6	8547.8	10321.0	10136.5	9968.4
55°	8525.6	8868.7	9877.7	10369.9	10348.3	9206.7	8909.3	10779.6	10785.9	10633.7
57.5°	8935.9	9265.7	10420.6	11006.0	11042.1	9775.0	9521.9	11293.3	11373.2	11271.7
59°	9230.2	9523.2	10635.6	11271.7	11418.9	10214.5	9969.7	11591.4	11538.7	11446.1
60°	9448.4	9686.8	10742.2	11410.6	11637.7	10512.6	10300.1	11766.4	11558.4	11446.1
62.5°	9988.1	10043.3	10934.3	11567.9	11889.4	11174.7	11229.9	12064.5	11422.0	11238.7
65°	10239.9	10268.4	10931.8	11286.3	11645.9	11690.3	12073.4	12073.4	11089.1	10807.5
67.5°	10134.6	9997.0	10389.5	10352.8	10711.7	11384.0	12390.5	11630.7	10452.3	10088.3
70°	9278.4	8748.9	8574.4	8590.3	8864.9	9901.8	11762.6	10328.0	9247.3	8821.8
72.5°	7720.2	6449.9	6019.2	6510.7	6582.4	7609.8	10024.2	7777.9	6819.6	6420.7
75°	6209.5	4546.6	3846.5	4365.2	4487.0	5569.0	7754.4	4844.1	3983.4	3672.7
77.5°	4461.0	3263.6	2760.1	2723.9	2881.2	3531.9	5502.4	2437.9	2033.3	1897.5
80°	2534.3	2148.1	2312.9	2182.3	2261.6	2208.3	2614.2	1069.3	875.8	818.8
82.5°	1529.7	1269.7	1375.0	1144.7	1448.5	1261.4	1007.1	342.5	297.4	282.9
85°	995.1	693.8	361.5	242.3	499.1	806.1	225.1	93.2	71.7	57.1
87.5°	343.1	176.9	17.8	7.6	53.3	150.3	8.2	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)