

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: P324118

Luminaire Tested: **GAN-SA4B-730-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15564 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

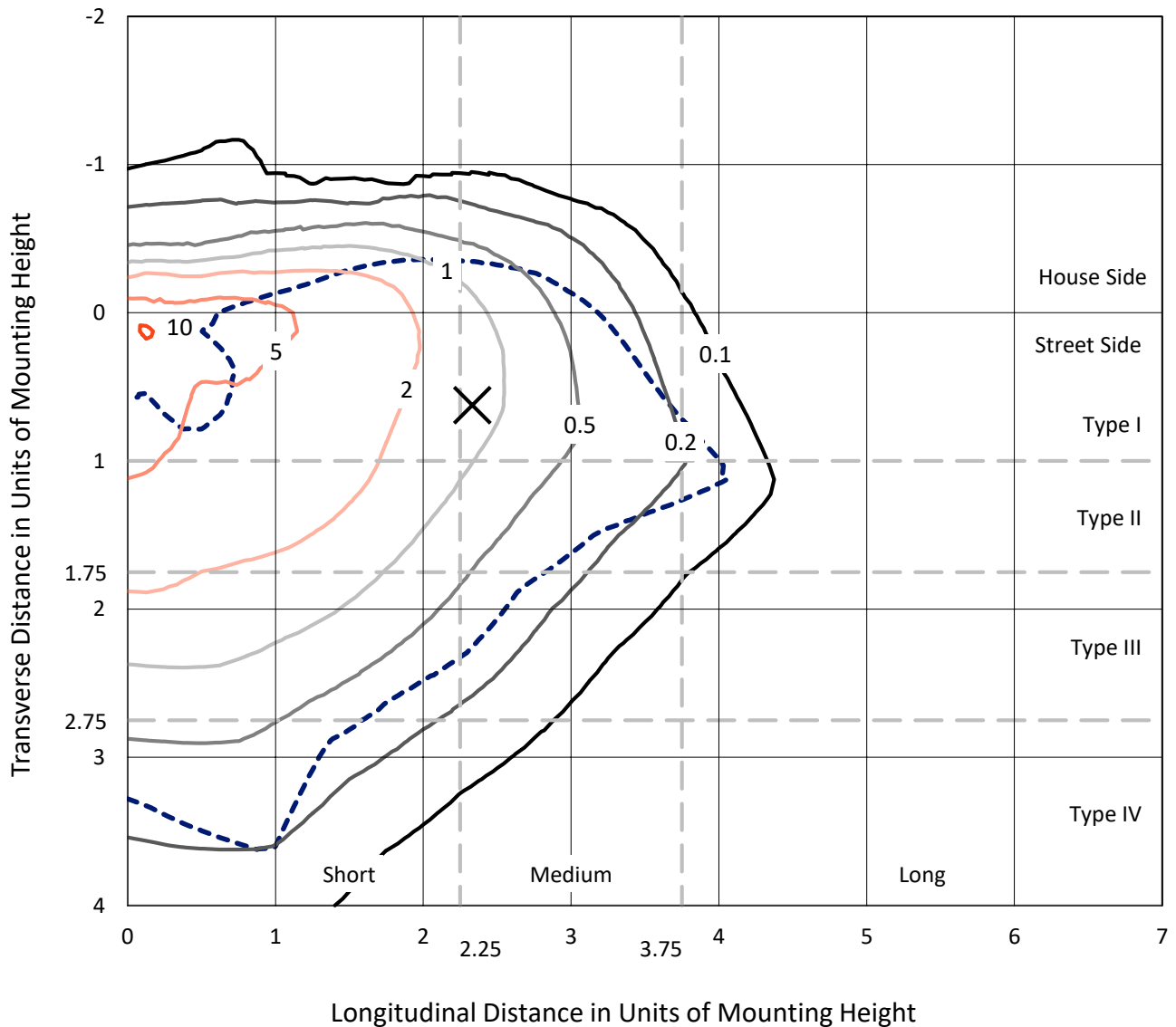
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

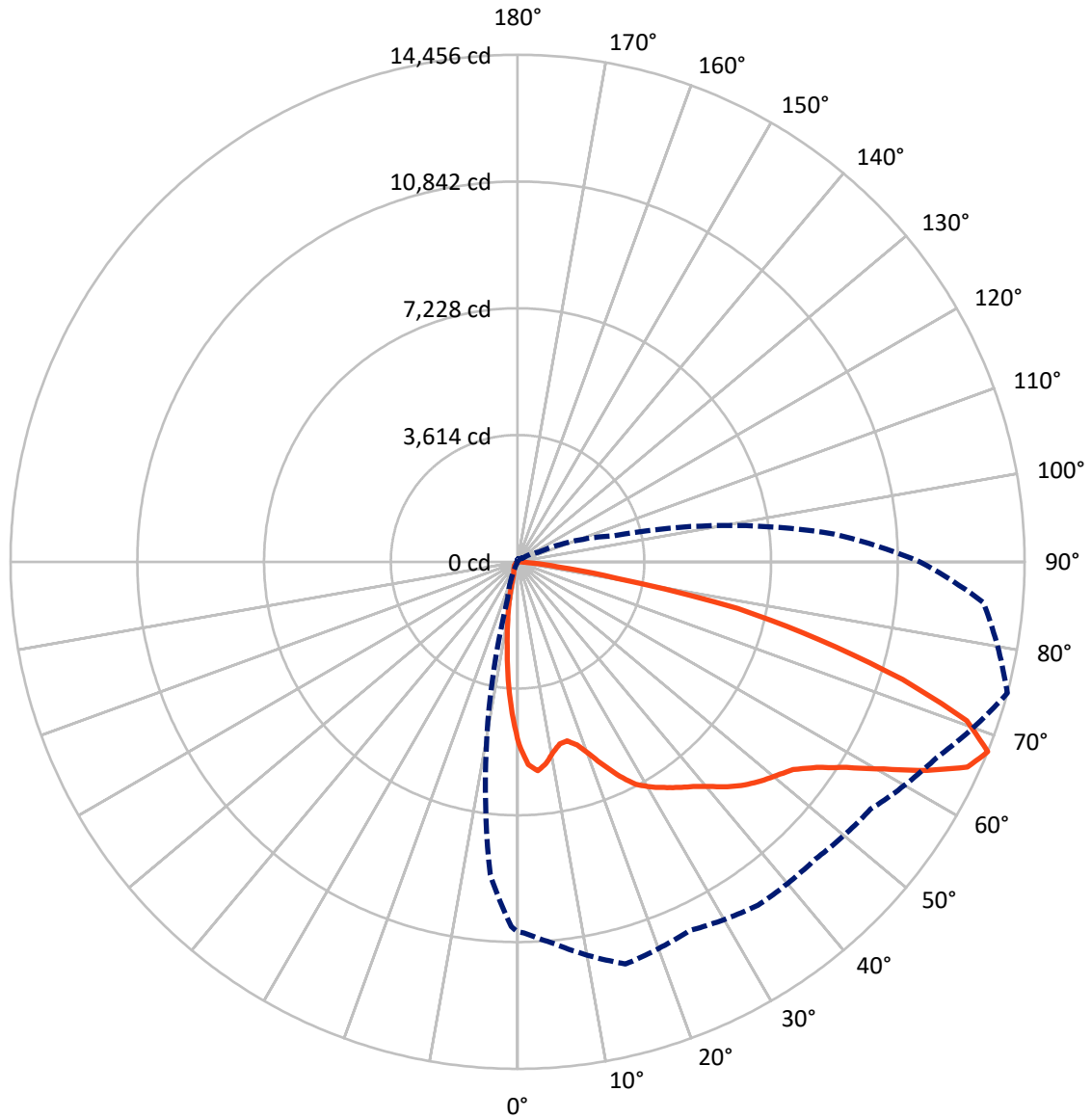
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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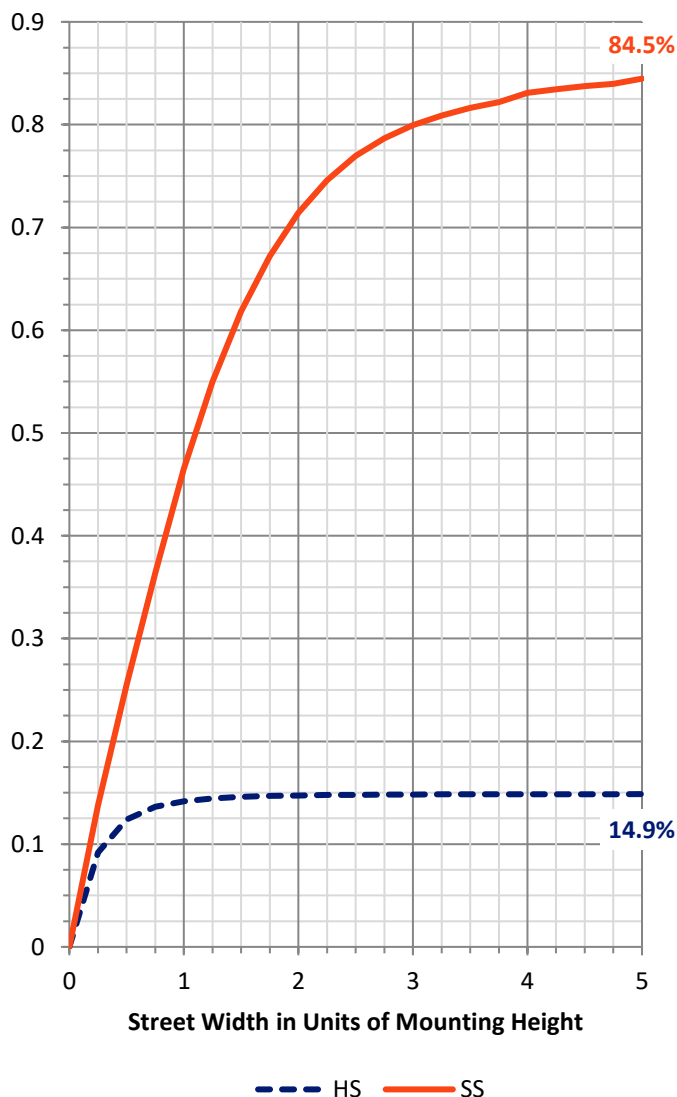
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2335.5	0.0	2335.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	13228.5	0.0	13228.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	15564.0	0.0	15564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.1	2.5
10°-20°	779.9	5.0
20°-30°	1103.3	7.1
30°-40°	1622.2	10.4
40°-50°	2331.6	15.0
50°-60°	3282.2	21.1
60°-70°	3833.4	24.6
70°-80°	1955.6	12.6
80°-90°	259.8	1.7
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°	15564.0	100.0
0°-180°	15564.0	100.0

Coefficient of Utilization

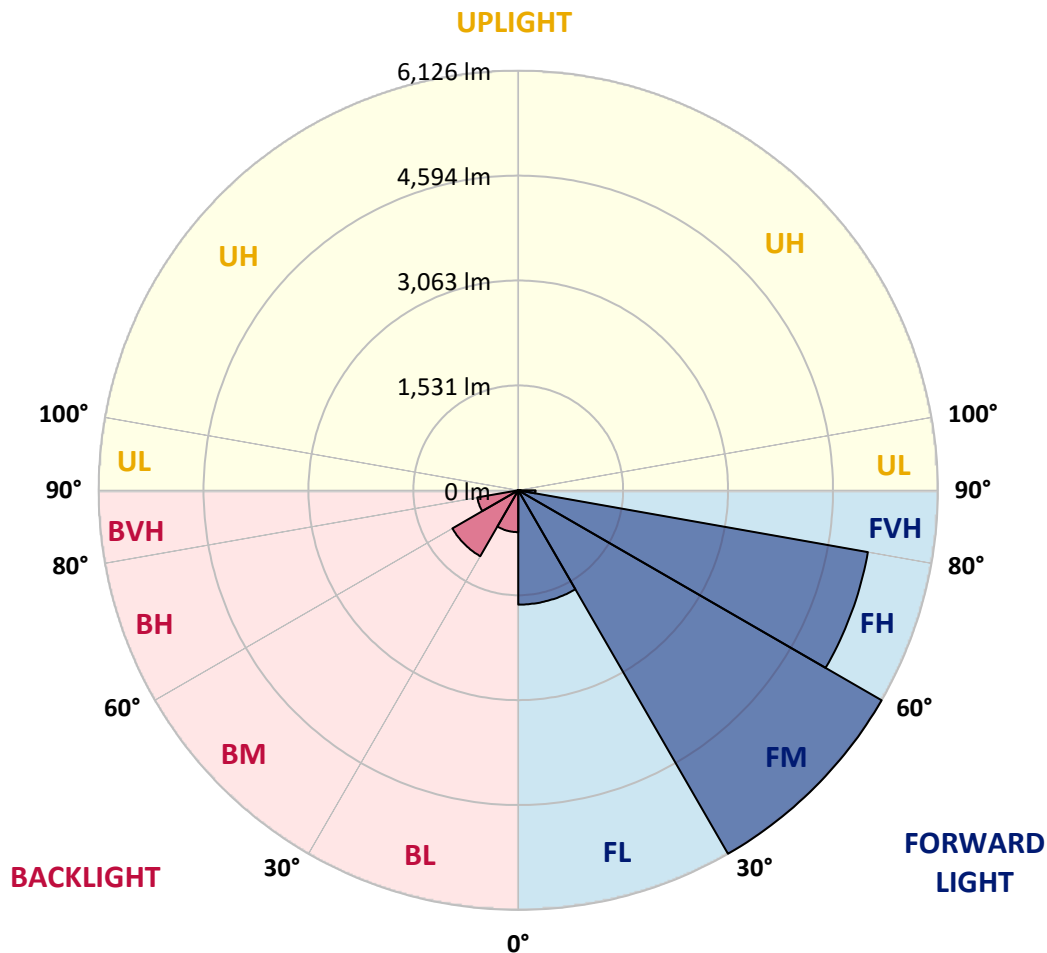


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1668.5	10.7			
FM (30°-60°)	6125.7	39.4			
FH (60°-80°)	5182.4	33.3			G3/7500
FVH (80°-90°)	251.9	1.6			G3/500
BL (0°-30°)	610.8	3.9	B2/1000		
BM (30°-60°)	1110.2	7.1	B2/2500		
BH (60°-80°)	606.6	3.9	B2/1000		G2/1000
BVH (80°-90°)	7.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5
2.5°	5660.1	5669.0	5714.7	5820.9	5936.6	5945.5	6023.6	5943.3	5916.0	5786.2	5652.0
5°	5702.9	5736.8	5893.9	6205.7	6476.3	6563.3	6625.2	6467.5	6301.6	5984.5	5646.1
7.5°	5358.6	5415.4	5662.4	6247.8	6731.4	6945.2	6985.8	6738.8	6332.5	5810.5	5301.8
10°	4917.7	4982.6	5280.4	6000.0	6664.3	7030.8	7086.8	6763.1	6179.2	5528.9	4929.5
12.5°	4560.8	4636.8	4941.3	5721.3	6433.6	6839.1	6949.7	6681.3	6046.5	5329.1	4675.1
15°	4396.4	4483.4	4803.4	5541.4	6177.7	6497.0	6588.4	6472.6	5972.7	5297.4	4616.1
17.5°	4490.8	4585.2	4915.5	5556.9	5937.4	6073.8	6147.5	6194.7	5972.7	5488.4	4788.7
20°	4877.9	4979.6	5329.1	5714.0	5738.3	5687.4	5766.3	5932.2	6042.1	5851.1	5203.0
22.5°	5413.2	5532.6	5927.0	5983.1	5641.0	5448.5	5458.9	5719.1	6168.1	6311.2	5778.1
25°	6065.6	6211.6	6612.7	6384.2	5681.5	5306.2	5302.6	5543.6	6291.3	6772.0	6418.8
27.5°	6713.7	6874.4	7226.9	6873.7	5848.9	5280.4	5273.1	5490.6	6411.4	7181.9	7118.5
30°	7257.1	7413.4	7717.2	7228.3	6029.5	5340.9	5305.5	5547.3	6483.0	7448.1	7628.7
32.5°	7699.5	7824.8	8070.3	7472.4	6222.7	5458.1	5381.4	5699.2	6604.6	7672.9	8097.6
35°	8186.1	8318.1	8416.1	7704.6	6439.5	5627.0	5517.1	5940.3	6791.9	7901.5	8611.5
37.5°	8741.3	8872.5	8860.7	7917.0	6714.5	5906.4	5836.4	6322.2	7083.1	8127.8	9185.1
40°	9284.6	9418.8	9323.0	8149.2	7037.4	6367.2	6315.6	6895.8	7473.1	8417.6	9857.5
42.5°	9793.4	9938.6	9733.6	8368.9	7422.3	6948.2	7036.7	7634.6	7961.2	8774.4	10437.0
45°	10203.3	10351.5	10078.0	8582.7	7827.8	7653.0	7919.2	8453.0	8548.1	9076.0	10828.5
47.5°	10501.2	10641.2	10316.8	8796.6	8346.8	8514.9	8978.7	9311.2	9078.2	9337.7	11106.5
50°	10691.4	10800.5	10386.9	9064.2	9028.1	9520.6	10082.4	10244.6	9577.3	9573.7	11444.1
52.5°	10812.3	10861.7	10438.5	9343.6	9738.8	10615.4	11163.2	11214.1	10091.2	9833.2	11899.1
55°	11228.9	11268.7	10804.2	9682.0	10326.4	11574.6	12140.9	12093.7	10672.9	10341.2	12435.8
57.5°	11939.6	11981.6	11559.9	10168.6	10802.0	12167.4	12849.4	12934.2	11354.9	11054.9	13010.9
60°	12296.4	12374.6	12224.2	10785.0	11262.8	12546.4	13332.3	13602.9	12207.2	11995.6	13568.3
62.5°	11972.8	12086.3	12304.6	11468.5	11720.6	12755.0	13482.7	13842.5	13080.2	13092.0	13911.8
65°	11326.9	11417.6	11787.7	11843.0	11986.1	12729.2	13111.1	13507.8	13614.7	14099.1	13893.4
67.5°	10546.9	10580.8	10894.9	11872.5	11601.2	11953.6	11994.9	12288.3	13192.2	14456.0	13335.3
70°	9424.0	9442.4	9716.7	10885.3	9969.6	10047.0	9985.8	10045.5	11341.7	13586.7	11926.3
72.5°	7584.5	7630.9	8020.9	9039.9	7263.0	7039.6	7520.3	7493.8	8734.6	11478.8	8857.7
75°	5584.2	5664.6	6253.7	7281.4	5097.6	4611.0	4961.9	5055.6	6209.4	8879.1	5539.2
77.5°	3909.8	3969.5	4540.2	5352.7	3689.4	3297.1	3170.3	3281.7	4098.6	6423.2	2790.6
80°	2252.4	2274.5	2638.7	3090.7	2486.1	2844.4	2576.8	2653.5	2455.9	2857.7	1200.3
82.5°	1473.8	1477.5	1619.8	1839.5	1548.3	1799.0	1331.5	1702.4	1510.7	1148.0	390.8
85°	796.3	800.7	939.3	1305.7	876.6	495.5	291.2	597.9	934.1	263.2	106.9
87.5°	87.7	80.4	283.1	474.8	243.3	45.0	15.5	67.1	149.7	17.0	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°	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5
2.5°	5583.5	5522.3	5369.7	5208.2	5078.4	4956.8	4834.4	4684.7	4569.0	4545.4	4507.0
5°	5464.0	5270.1	4950.1	4628.7	4369.9	4043.3	3836.1	3674.6	3516.9	3507.3	3475.6
7.5°	5046.7	4791.6	4341.1	3896.6	3532.3	3221.2	2907.1	2697.0	2531.8	2473.6	2438.9
10°	4645.6	4358.8	3796.3	3289.0	2963.9	2688.9	2467.7	2248.0	2048.9	1911.8	1849.8
12.5°	4365.5	4048.4	3428.4	2991.2	2758.2	2497.2	2227.3	1953.1	1723.8	1558.6	1457.6
15°	4257.1	3918.7	3305.3	2873.2	2585.7	2255.4	1910.3	1597.0	1342.6	1192.9	1102.2
17.5°	4386.1	3992.4	3295.7	2729.4	2327.6	1916.9	1535.8	1165.6	926.0	812.5	754.2
20°	4713.5	4226.9	3292.0	2553.2	2020.9	1515.9	1040.3	766.8	621.5	558.1	530.8
22.5°	5176.5	4526.2	3321.5	2379.2	1701.7	1083.1	718.1	563.3	488.8	454.9	439.4
25°	5772.2	4946.4	3404.8	2221.4	1401.6	808.1	559.6	471.9	419.5	393.0	381.9
27.5°	6407.0	5430.1	3534.5	2084.3	1157.5	644.4	479.2	404.0	366.4	348.0	337.7
30°	6930.5	5990.4	3665.8	1931.7	980.6	561.8	438.7	368.6	325.1	313.3	303.8
32.5°	7388.3	6414.4	3758.7	1793.8	864.8	499.1	396.7	329.6	300.1	277.2	266.9
35°	7862.4	6767.5	3755.7	1697.2	785.2	452.0	361.3	294.9	259.5	233.0	224.9
37.5°	8375.6	7166.4	3691.6	1614.7	750.6	414.4	341.4	276.5	241.1	214.6	204.2
40°	8976.5	7585.2	3626.0	1537.2	741.0	384.1	327.4	261.7	224.1	198.3	188.0
42.5°	9561.9	7962.7	3568.5	1479.7	699.7	383.4	314.8	250.7	210.9	185.8	174.0
45°	10030.0	8314.4	3557.4	1445.1	656.2	396.7	308.2	243.3	200.5	175.5	164.4
47.5°	10419.3	8696.3	3628.2	1420.7	614.9	362.0	324.4	238.1	191.0	166.6	154.1
50°	10882.3	9165.2	3794.8	1380.9	571.4	325.9	371.6	239.6	182.8	157.8	144.5
52.5°	11528.2	9814.0	4039.6	1313.8	511.7	292.7	365.7	241.1	174.0	148.2	134.9
55°	12252.2	10624.3	4302.8	1202.5	428.4	249.2	313.3	230.8	157.0	137.9	125.3
57.5°	13013.1	11359.4	4459.1	1069.8	340.6	215.3	250.7	210.1	138.6	123.9	115.8
60°	13132.5	11638.8	4387.6	906.9	270.6	187.3	185.8	213.8	123.9	109.1	103.2
62.5°	12835.4	11287.8	4041.8	761.6	226.3	164.4	152.6	186.5	112.1	97.3	91.4
65°	12264.0	10339.0	3481.5	686.4	210.1	140.8	126.8	131.2	98.1	84.8	79.6
67.5°	11469.2	9072.3	2858.5	643.7	207.9	120.9	108.4	99.5	84.8	73.7	69.3
70°	9844.2	7557.9	2280.4	620.1	202.0	101.7	91.4	81.1	70.8	62.7	59.0
72.5°	7245.3	5355.6	1773.9	594.3	203.5	81.1	79.6	67.1	56.8	48.7	47.2
75°	4186.3	3059.7	1163.4	481.4	193.9	62.7	66.4	47.2	39.8	33.9	33.9
77.5°	2231.0	1866.1	443.1	200.5	70.8	39.8	37.6	28.0	25.1	20.6	19.9
80°	972.5	821.3	133.4	56.0	39.1	21.4	14.0	12.5	11.1	8.8	8.1
82.5°	344.3	297.1	43.5	27.3	17.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	78.2	56.0	0.0	6.6	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°	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5
2.5°	4428.9	4412.7	4316.8	4320.5	4337.5	4361.8	4304.3	4330.8	4402.3	4470.9	4496.7
5°	3424.7	3428.4	3370.1	3406.3	3438.7	3460.8	3367.9	3369.4	3426.2	3503.6	3544.1
7.5°	2413.1	2407.2	2410.2	2496.4	2557.6	2513.4	2548.1	2427.9	2435.3	2490.6	2449.3
10°	1793.8	1712.7	1667.0	1731.9	1799.0	1774.6	1714.9	1675.8	1703.1	1764.3	1759.9
12.5°	1409.7	1293.2	1224.6	1178.2	1233.5	1187.8	1186.3	1152.4	1115.5	1122.1	1220.2
15°	1060.2	975.4	894.3	819.9	818.4	802.9	724.0	635.5	628.2	632.6	683.5
17.5°	729.2	700.4	667.2	603.1	586.1	521.3	444.6	409.2	391.5	399.6	416.6
20°	512.4	501.4	505.0	470.4	446.1	384.1	339.2	325.1	322.2	330.3	338.4
22.5°	424.7	404.8	402.6	387.1	362.7	317.8	293.4	285.3	281.6	289.0	294.9
25°	371.6	351.7	343.6	334.0	308.2	277.2	262.5	255.1	251.4	255.8	259.5
27.5°	327.4	308.9	301.5	294.9	269.8	247.7	235.9	229.3	226.3	227.8	231.5
30°	294.2	278.0	268.4	260.3	238.9	223.4	213.1	206.4	203.5	203.5	207.2
32.5°	259.5	250.7	241.8	231.5	211.6	201.3	191.0	183.6	180.6	181.4	184.3
35°	216.0	213.1	215.3	205.7	188.7	179.9	169.6	161.5	159.3	160.0	162.9
37.5°	191.7	178.4	186.5	181.4	171.8	160.0	146.7	139.3	135.7	137.9	139.3
40°	176.2	160.0	154.1	159.3	157.8	138.6	126.8	119.4	116.5	117.2	118.7
42.5°	162.9	143.8	130.5	129.8	138.6	120.9	108.4	101.7	98.1	98.1	99.5
45°	150.4	129.8	113.5	101.0	116.5	102.5	90.7	84.8	80.4	80.4	81.1
47.5°	140.8	118.0	98.8	82.6	87.7	84.1	74.5	68.6	64.1	64.1	64.9
50°	132.0	106.2	85.5	69.3	65.6	69.3	60.5	53.8	50.9	50.1	51.6
52.5°	122.4	94.4	73.0	59.0	51.6	52.3	47.2	42.8	39.1	39.1	40.6
55°	112.8	84.8	63.4	50.1	42.8	39.1	37.6	34.7	31.7	31.7	33.2
57.5°	103.2	74.5	53.8	41.3	33.9	31.0	31.0	28.8	26.5	26.5	28.0
60°	94.4	64.1	44.2	33.9	26.5	25.8	26.5	24.3	22.9	22.9	24.3
62.5°	84.1	54.6	36.1	28.0	21.4	20.6	22.9	21.4	19.9	19.9	21.4
65°	71.5	46.4	28.8	21.4	16.2	16.2	19.2	17.7	16.2	16.2	17.7
67.5°	60.5	39.1	22.1	15.5	11.8	12.5	16.2	14.7	14.0	14.0	15.5
70°	50.1	30.2	15.5	9.6	6.6	9.6	12.5	12.5	12.5	12.5	14.0
72.5°	37.6	20.6	8.8	3.7	2.9	6.6	10.3	11.8	11.1	11.1	13.3
75°	24.3	11.8	2.9	0.0	0.0	3.7	8.1	9.6	9.6	8.8	11.1
77.5°	14.0	3.7	0.0	0.0	0.0	0.0	5.2	4.4	3.7	2.9	5.2
80°	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5
2.5°	4600.7	4687.7	4810.1	4939.8	5139.6	5298.1	5453.7	5587.1	5638.8	5660.1
5°	3641.5	3769.0	3948.2	4178.2	4538.7	4863.1	5192.0	5523.0	5666.8	5702.9
7.5°	2612.9	2775.9	3003.7	3292.0	3714.4	4134.7	4594.0	5079.9	5302.6	5358.6
10°	1933.9	2133.0	2394.0	2697.7	3101.0	3533.1	4033.7	4588.9	4843.2	4917.7
12.5°	1372.1	1641.2	1990.7	2360.1	2709.5	3095.1	3601.6	4213.6	4480.5	4560.8
15°	805.9	1066.1	1479.7	1974.5	2422.0	2812.7	3327.4	4021.2	4315.3	4396.4
17.5°	462.3	592.0	904.6	1456.1	2063.7	2604.8	3241.1	4069.1	4415.6	4490.8
20°	353.2	394.4	521.3	937.8	1644.9	2400.6	3241.1	4340.4	4767.3	4877.9
22.5°	308.9	339.2	390.8	559.6	1210.6	2181.6	3278.7	4732.6	5290.8	5413.2
25°	274.3	301.5	345.8	421.0	825.8	1921.4	3367.9	5214.1	5907.1	6065.6
27.5°	245.5	271.3	311.1	368.6	564.8	1607.3	3488.1	5778.8	6586.9	6713.7
30°	219.7	244.0	280.2	320.7	435.7	1251.2	3590.6	6311.2	7120.7	7257.1
32.5°	195.4	217.5	249.9	280.2	356.8	925.3	3601.6	6732.9	7563.8	7699.5
35°	172.5	192.4	221.9	245.5	295.7	730.6	3429.9	7098.6	8006.9	8186.1
37.5°	150.4	169.6	195.4	213.1	260.3	595.7	3167.4	7506.3	8575.4	8741.3
40°	129.8	146.7	173.3	185.1	246.3	457.9	2882.0	7933.9	9132.8	9284.6
42.5°	110.6	126.8	152.6	175.5	216.0	342.1	2573.9	8335.0	9634.1	9793.4
45°	92.2	109.1	134.9	185.8	179.2	255.8	2244.3	8601.2	10030.0	10203.3
47.5°	74.5	93.6	129.0	176.9	143.0	188.0	1983.3	8853.3	10330.1	10501.2
50°	59.7	78.9	145.2	157.8	117.2	143.8	1874.2	9078.9	10527.0	10691.4
52.5°	48.7	66.4	137.1	120.9	98.1	118.7	1933.2	9444.6	10709.1	10812.3
55°	40.6	52.3	82.6	84.1	83.3	101.0	2006.2	9969.6	11180.2	11228.9
57.5°	35.4	42.0	57.5	64.9	70.0	89.9	2007.6	10723.1	11909.4	11939.6
60°	30.2	36.9	47.9	52.3	60.5	80.4	1934.6	10986.3	12196.2	12296.4
62.5°	26.5	32.4	39.8	43.5	50.9	72.3	1763.6	10605.1	11802.5	11972.8
65°	23.6	29.5	33.2	36.9	45.0	64.9	1481.9	9842.8	11149.2	11326.9
67.5°	20.6	25.8	29.5	33.2	40.6	57.5	1091.2	8957.3	10399.4	10546.9
70°	18.4	22.9	26.5	29.5	35.4	48.7	662.1	7600.7	9362.8	9424.0
72.5°	17.7	20.6	24.3	26.5	31.0	42.8	335.5	5585.7	7484.9	7584.5
75°	15.5	18.4	22.1	23.6	27.3	36.9	136.4	3668.7	5424.2	5584.2
77.5°	12.5	17.0	19.9	21.4	23.6	30.2	69.3	2344.6	3806.6	3909.8
80°	4.4	12.5	17.0	17.7	19.9	22.1	45.7	1283.6	2208.2	2252.4
82.5°	0.0	8.1	13.3	12.5	14.0	17.0	29.5	610.5	1457.6	1473.8
85°	0.0	3.7	10.3	8.1	5.9	11.8	10.3	133.4	764.6	796.3
87.5°	0.0	0.0	0.7	3.7	2.9	4.4	1.5	0.7	69.3	87.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)