

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: P324478

Luminaire Tested: **GAN-SA4B-740-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324478
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-SA4B-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 17089 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

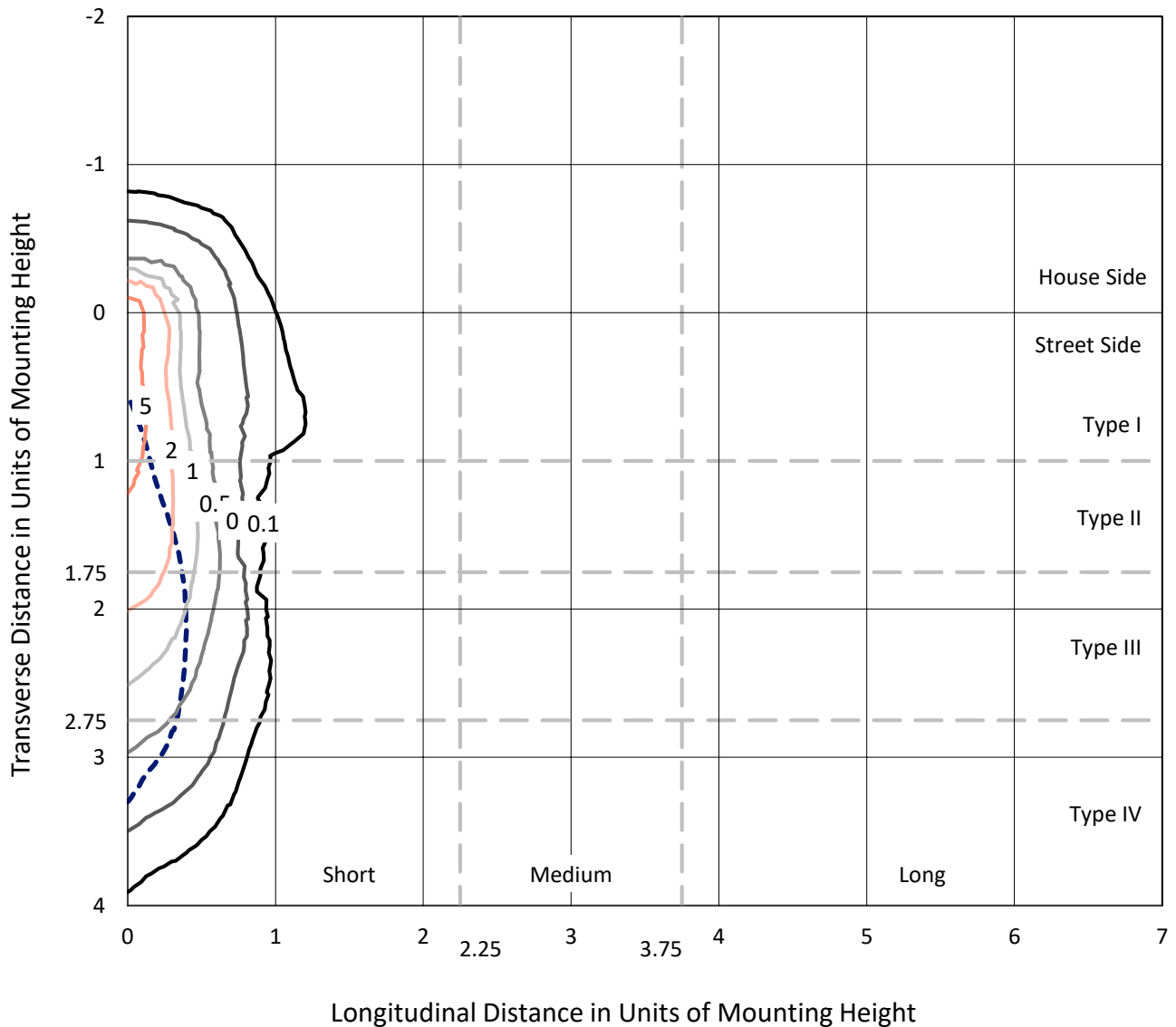
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

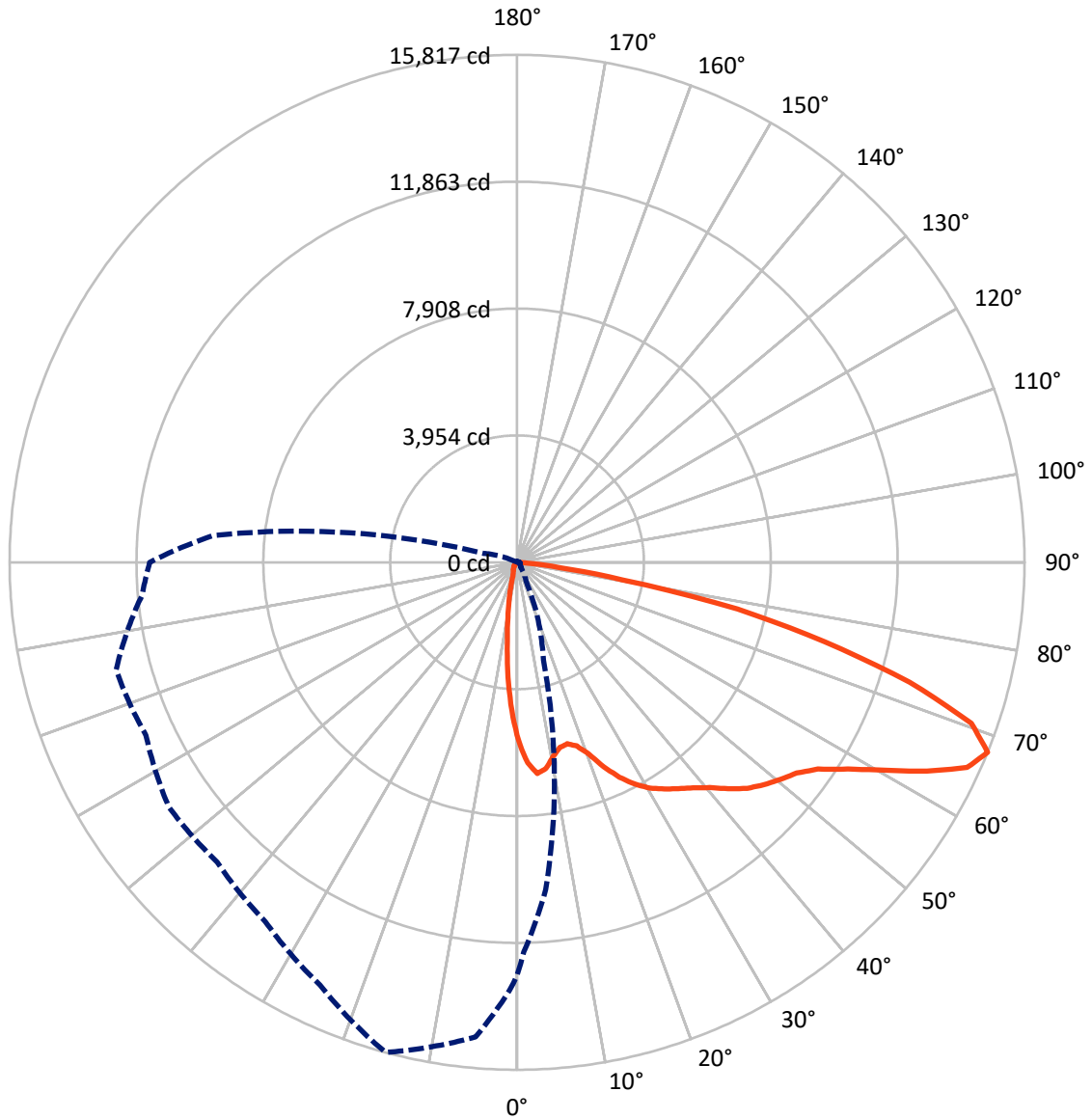
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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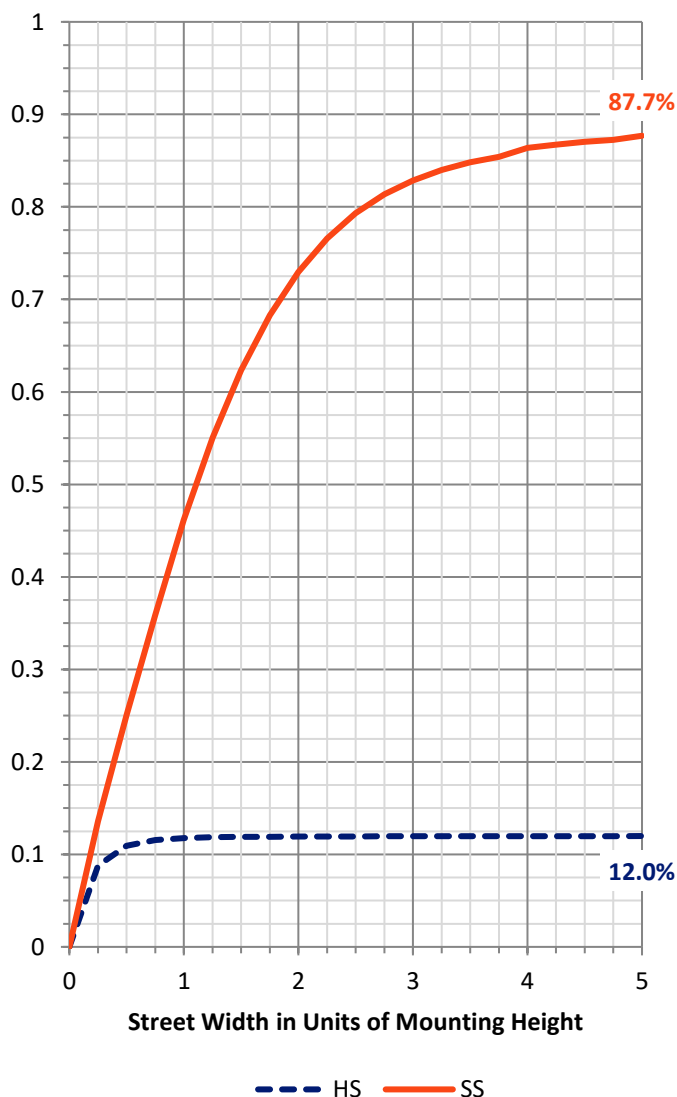
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2068.3	0.0	2068.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	15020.7	0.0	15020.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	17089.0	0.0	17089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.2	2.5
10°-20°	850.4	5.0
20°-30°	1207.6	7.1
30°-40°	1783.7	10.4
40°-50°	2572.4	15.1
50°-60°	3611.2	21.1
60°-70°	4209.6	24.6
70°-80°	2152.0	12.6
80°-90°	274.8	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°	17089.0	100.0
0°-180°	17089.0	100.0

Coefficient of Utilization

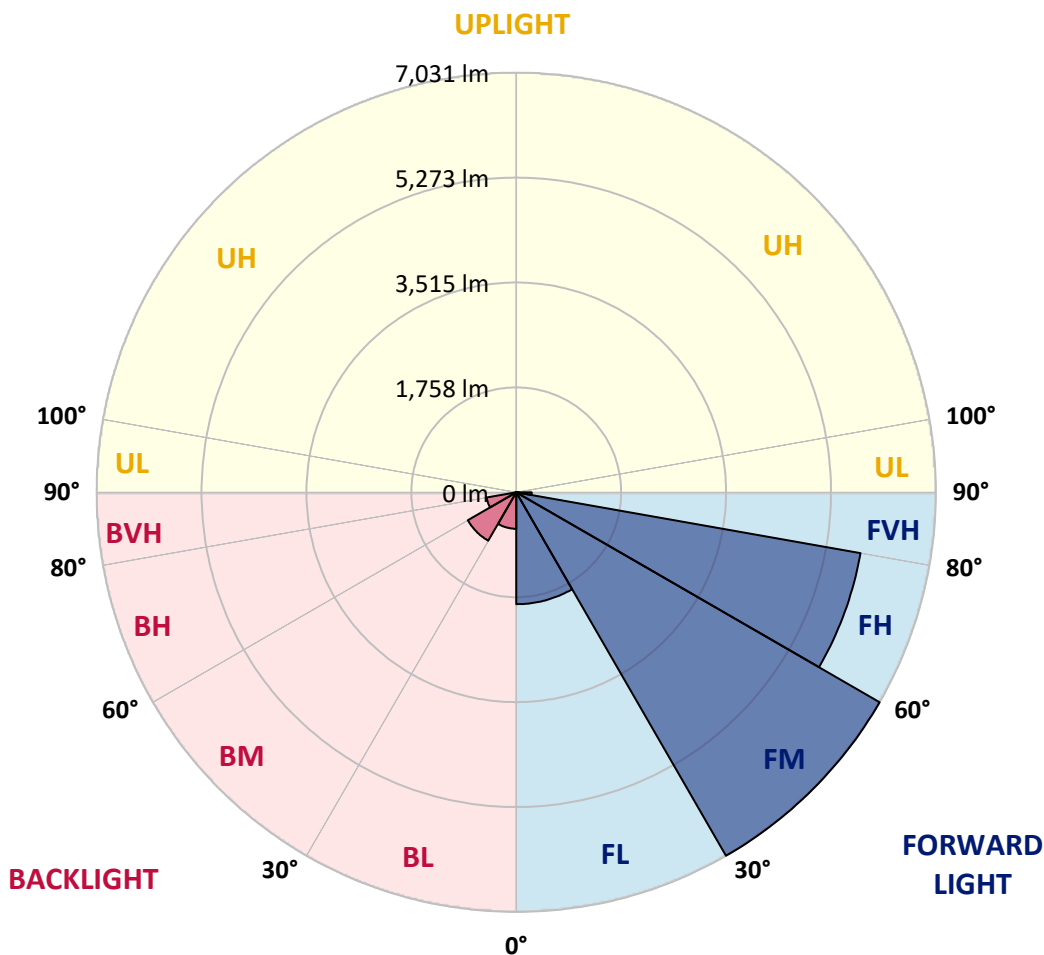


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1874.3	11.0			
FM (30°-60°)	7030.7	41.1			
FH (60°-80°)	5857.5	34.3			G3/7500
FVH (80°-90°)	258.1	1.5			G3/500
BL (0°-30°)	610.9	3.6	B2/1000		
BM (30°-60°)	936.6	5.5	B1/1000		
BH (60°-80°)	504.1	2.9	B2/1000		G2/1000
BVH (80°-90°)	16.7	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°	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7
2.5°	6095.4	6048.4	5996.6	5827.4	5670.3	5490.6	5344.1	5242.1	5114.2	4948.2	4906.1
5°	6051.7	6001.5	5838.7	5462.3	5132.8	4812.2	4502.9	4321.6	4096.5	3868.2	3811.5
7.5°	5612.0	5559.4	5324.6	4808.9	4365.3	3902.2	3500.6	3252.1	2997.9	2789.0	2678.1
10°	5154.6	5097.2	4833.2	4207.4	3660.9	3242.4	2947.7	2710.5	2470.0	2246.6	2068.5
12.5°	4839.7	4764.4	4477.8	3768.6	3292.6	3008.4	2733.2	2449.0	2123.5	1883.9	1688.0
15°	4707.7	4621.9	4319.1	3599.4	3162.2	2828.7	2470.0	2121.1	1739.8	1465.3	1285.6
17.5°	4809.7	4698.0	4373.4	3588.1	2998.7	2544.5	2091.2	1681.5	1267.8	990.1	862.2
20°	5156.3	5009.7	4597.6	3584.8	2800.4	2206.9	1632.1	1169.0	835.5	672.0	604.8
22.5°	5701.9	5508.4	4919.9	3610.8	2595.5	1852.3	1178.8	794.2	627.4	542.4	502.8
25°	6360.9	6136.7	5383.7	3702.2	2415.8	1507.4	856.5	627.4	529.5	467.1	433.9
27.5°	6987.5	6805.4	5969.9	3834.2	2276.6	1229.0	695.4	531.9	452.6	411.3	384.6
30°	7613.3	7384.2	6571.4	3991.3	2109.0	1040.3	611.2	484.9	405.6	361.9	344.9
32.5°	8068.3	7878.1	7042.6	4104.6	1930.1	917.3	546.5	443.7	378.9	334.4	309.3
35°	8603.5	8388.1	7446.6	4129.7	1815.1	839.5	491.4	399.1	328.7	289.0	262.3
37.5°	9181.5	8913.5	7912.9	4074.6	1725.2	801.5	450.1	378.9	306.8	266.4	238.0
40°	9821.1	9518.3	8360.6	3995.3	1637.0	788.5	418.6	363.5	289.8	248.5	219.4
42.5°	10494.7	10137.6	8748.4	3911.9	1581.1	744.0	415.3	348.1	276.9	232.4	203.2
45°	11060.6	10698.7	9146.7	3884.4	1541.5	695.4	429.1	337.6	268.0	219.4	191.1
47.5°	11511.5	11169.0	9554.7	3945.9	1518.8	650.9	391.0	351.4	263.1	208.1	180.5
50°	12049.9	11662.1	10129.5	4129.7	1485.6	606.4	353.8	402.4	263.1	200.8	171.6
52.5°	12725.1	12341.3	10770.7	4414.7	1419.2	544.9	318.2	403.2	265.5	191.1	160.3
55°	13574.3	13295.8	11686.4	4727.2	1313.1	454.2	275.3	346.5	255.8	173.3	149.8
57.5°	14388.8	14161.3	12521.0	4940.9	1171.5	354.6	239.6	279.3	234.0	152.2	133.6
59°	14611.4	14362.9	12827.1	4950.6	1065.4	309.3	221.8	230.7	229.1	142.5	123.9
60°	14611.4	14347.5	12915.3	4898.8	988.5	284.2	210.5	205.6	238.8	136.0	118.2
62.5°	14346.7	13975.9	12628.7	4548.3	806.3	242.1	183.8	170.0	214.5	122.2	104.4
65°	13796.1	13256.2	11652.4	3914.3	718.9	221.8	158.7	139.2	149.0	107.7	91.5
67.5°	12878.1	12146.2	10244.5	3162.2	684.1	216.2	136.8	118.2	112.5	92.3	80.1
70°	11261.3	10449.3	8535.5	2486.2	654.1	213.7	115.0	99.6	90.7	77.7	68.0
72.5°	8196.2	7349.4	6059.7	1943.8	636.3	218.6	92.3	83.4	74.5	60.7	52.6
75°	4688.3	4133.7	3405.9	1284.0	542.4	208.9	71.2	69.6	53.4	43.7	36.4
77.5°	2422.3	2348.6	2041.0	493.0	259.9	91.5	47.0	40.5	31.6	26.7	21.9
80°	1045.2	1033.8	894.6	142.5	68.8	51.0	26.7	17.0	14.6	11.3	8.9
82.5°	361.1	361.1	318.2	47.8	30.8	25.1	3.2	0.0	0.0	0.0	0.0
85°	72.9	81.8	57.5	0.0	10.5	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°	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7
2.5°	4855.1	4757.1	4750.6	4689.1	4612.2	4577.4	4557.2	4592.8	4636.5	4641.4	4706.9
5°	3768.6	3665.8	3708.7	3599.4	3621.3	3599.4	3563.8	3570.3	3589.7	3529.0	3604.3
7.5°	2646.5	2568.8	2618.2	2589.1	2627.9	2643.3	2621.4	2589.1	2493.5	2482.2	2547.8
10°	1994.8	1906.6	1854.0	1798.9	1811.0	1836.1	1828.0	1804.6	1743.8	1747.1	1810.2
12.5°	1603.0	1504.2	1399.8	1264.6	1231.4	1250.0	1231.4	1217.6	1159.3	1164.2	1220.0
15°	1216.0	1135.0	1025.7	917.3	858.2	863.8	812.0	775.6	739.2	695.4	729.4
17.5°	820.9	771.5	739.2	706.8	636.3	620.1	554.6	484.1	456.6	436.4	450.9
20°	581.3	554.6	541.6	540.0	499.5	479.3	415.3	371.6	357.8	353.8	362.7
22.5°	485.8	466.3	447.7	437.2	416.9	393.5	344.9	323.0	313.3	308.5	314.9
25°	422.6	408.0	388.6	370.8	362.7	337.6	302.8	286.6	280.1	275.3	278.5
27.5°	375.6	362.7	340.0	328.7	322.2	300.4	270.4	257.4	251.8	250.2	249.4
30°	338.4	326.3	305.2	292.3	280.9	261.5	243.7	230.7	225.1	223.4	221.8
32.5°	301.2	291.5	277.7	264.7	252.6	234.8	219.4	208.9	200.0	198.3	197.5
35°	254.2	244.5	237.2	236.4	225.1	208.1	196.7	183.0	175.7	173.3	174.1
37.5°	225.9	212.9	196.7	202.4	199.2	187.0	171.6	157.9	150.6	149.0	149.0
40°	208.1	194.3	175.7	166.0	175.7	173.3	149.0	135.2	127.9	127.1	125.5
42.5°	191.1	177.3	156.3	140.1	144.9	152.2	128.7	115.8	108.5	106.9	104.4
45°	178.9	164.3	140.9	122.2	112.5	127.9	110.1	93.9	89.9	86.6	85.0
47.5°	167.6	153.8	127.1	106.1	89.9	92.3	88.2	76.9	72.1	68.8	68.0
50°	157.9	143.3	115.0	90.7	74.5	68.0	71.2	60.7	56.7	53.4	51.8
52.5°	146.5	132.8	102.0	78.5	62.3	53.4	54.2	47.8	43.7	41.3	40.5
55°	137.6	123.9	91.5	68.8	55.1	43.7	38.9	37.2	34.8	33.2	32.4
57.5°	125.5	112.5	81.0	58.3	47.0	35.6	30.0	30.0	29.1	27.5	26.7
59°	118.2	106.9	74.5	52.6	42.9	30.8	26.7	27.5	26.7	25.1	24.3
60°	112.5	102.0	69.6	48.6	40.5	28.3	24.3	25.9	25.1	23.5	22.7
62.5°	99.6	92.3	59.9	40.5	35.6	22.7	20.2	21.9	21.9	21.0	20.2
65°	87.4	79.3	51.0	34.0	33.2	19.4	16.2	19.4	20.2	18.6	17.0
67.5°	76.1	68.0	44.5	27.5	30.8	15.4	12.1	16.2	21.9	17.0	15.4
70°	64.8	56.7	34.8	21.9	32.4	10.5	9.7	14.6	25.9	18.6	14.6
72.5°	50.2	43.7	24.3	16.2	34.8	7.3	7.3	12.1	29.1	20.2	13.8
75°	34.8	28.3	14.6	9.7	28.3	4.9	4.9	11.3	27.5	18.6	13.0
77.5°	20.2	15.4	4.9	0.8	14.6	0.0	0.8	8.1	19.4	11.3	5.7
80°	7.3	3.2	0.0	0.0	8.9	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°	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7
2.5°	4723.9	4833.2	4931.2	5079.3	5255.0	5457.4	5631.5	5818.5	5994.2	6067.0	6117.2
5°	3619.7	3754.9	3912.7	4130.5	4420.3	4777.4	5111.7	5489.8	5896.2	6099.4	6290.5
7.5°	2559.1	2696.7	2892.6	3124.2	3474.7	3899.8	4336.9	4859.1	5409.7	5731.1	6047.6
10°	1840.2	2009.4	2192.4	2508.9	2865.1	3268.3	3718.4	4301.3	4915.0	5271.2	5652.5
12.5°	1252.4	1445.1	1722.0	2076.6	2495.1	2890.2	3281.3	3837.4	4549.9	4902.8	5311.7
15°	751.3	858.2	1151.2	1561.7	2075.0	2567.2	2995.5	3553.3	4312.7	4745.0	5170.0
17.5°	463.1	512.5	672.0	1008.7	1547.9	2170.5	2757.4	3456.9	4346.7	4872.9	5327.9
20°	369.2	388.6	439.6	595.9	1025.7	1733.3	2489.5	3437.5	4624.4	5272.0	5760.2
22.5°	320.6	339.2	373.2	433.1	645.2	1297.8	2235.3	3455.3	5022.7	5870.3	6440.3
25°	282.5	298.7	331.1	380.5	472.8	914.0	1963.2	3534.7	5541.6	6612.7	7218.3
27.5°	252.6	266.4	296.3	341.6	405.6	638.0	1654.8	3631.0	6156.9	7372.1	7969.6
30°	225.1	237.2	263.9	306.0	352.2	490.6	1316.4	3696.6	6773.0	7969.6	8506.3
32.5°	201.6	210.5	234.8	270.4	306.0	391.0	1000.6	3686.0	7230.4	8466.6	8892.5
35°	177.3	186.2	207.3	238.0	266.4	323.0	786.9	3489.3	7628.7	8982.4	9334.5
37.5°	150.6	161.9	182.2	209.7	229.1	284.2	636.3	3252.1	8032.7	9571.7	9827.6
40°	127.9	139.2	157.1	187.0	199.2	269.6	489.0	2963.1	8486.9	10230.7	10368.4
42.5°	106.1	116.6	135.2	161.1	187.8	232.4	361.9	2632.8	8923.3	10794.2	10861.4
45°	85.8	96.3	115.8	141.7	200.8	192.7	280.1	2279.0	9275.4	11263.0	11284.8
47.5°	68.0	77.7	98.0	133.6	187.0	153.8	200.0	2001.3	9570.9	11628.9	11571.4
50°	52.6	60.7	81.8	153.0	163.5	127.1	151.4	1909.0	9835.7	11855.6	11706.6
52.5°	41.3	48.6	67.2	143.3	127.1	105.2	127.1	1995.6	10198.3	12043.4	11782.7
55°	33.2	40.5	52.6	81.8	86.6	89.1	108.5	2076.6	10824.2	12483.8	12232.0
57.5°	27.5	34.8	42.9	57.5	65.6	75.3	96.3	2085.5	11561.7	13215.7	12977.7
59°	25.1	31.6	38.9	51.0	57.5	68.8	90.7	2036.9	11821.6	13482.0	13363.0
60°	23.5	30.0	36.4	47.0	53.4	64.8	87.4	1990.8	11832.9	13472.3	13527.4
62.5°	20.2	26.7	32.4	39.7	45.3	55.1	78.5	1819.9	11353.6	13031.1	13428.6
65°	17.8	23.5	29.1	34.0	38.9	49.4	71.2	1508.3	10535.1	12319.5	12752.6
67.5°	16.2	20.2	26.7	30.0	34.8	43.7	63.1	1075.1	9512.6	11449.2	11730.1
70°	14.6	19.4	24.3	27.5	31.6	38.1	54.2	617.7	8032.7	10174.9	10374.8
72.5°	13.8	18.6	21.9	25.9	28.3	34.0	49.4	290.6	5881.6	8150.9	8673.1
75°	12.1	17.0	20.2	24.3	26.7	30.8	42.1	139.2	3911.9	5898.6	6492.1
77.5°	7.3	13.8	18.6	21.9	23.5	26.7	34.8	80.1	2496.8	4082.7	4808.9
80°	0.0	4.9	13.8	18.6	20.2	22.7	26.7	63.1	1335.8	2332.4	2799.5
82.5°	0.0	0.0	9.7	14.6	13.8	15.4	20.2	39.7	602.3	1524.4	1717.9
85°	0.0	0.0	3.2	11.3	9.7	7.3	13.8	13.8	132.0	771.5	962.6
87.5°	0.0	0.0	0.0	0.8	4.9	3.2	5.7	1.6	0.8	57.5	233.2
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°	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7	5566.7
2.5°	6292.9	6352.8	6454.0	6501.8	6478.3	6378.7	6259.7	6138.3	6067.0	6095.4
5°	6679.9	6988.3	7166.5	7225.6	7126.8	6903.3	6611.1	6225.7	6088.9	6051.7
7.5°	6679.9	7260.4	7627.9	7692.7	7472.5	7034.5	6486.4	5884.9	5684.9	5612.0
10°	6445.1	7235.3	7747.7	7850.6	7542.9	6888.0	6153.7	5467.1	5229.9	5154.6
12.5°	6180.4	7031.3	7571.2	7712.9	7460.3	6742.2	5922.9	5184.6	4905.3	4839.7
15°	6017.6	6780.3	7227.2	7330.0	7223.1	6657.2	5867.9	5099.6	4770.9	4707.7
17.5°	6075.9	6586.0	6747.1	6807.0	6879.0	6627.3	6017.6	5285.8	4869.7	4809.7
20°	6295.3	6381.2	6297.8	6373.1	6567.4	6656.4	6374.7	5735.9	5236.4	5156.3
22.5°	6667.7	6275.1	6041.1	6071.1	6307.5	6752.8	6920.3	6378.7	5802.3	5701.9
25°	7101.7	6360.9	5898.6	5871.9	6114.8	6879.9	7419.0	7078.2	6471.8	6360.9
27.5°	7647.3	6553.6	5869.5	5842.8	6047.6	6998.9	7833.5	7769.6	7177.0	6987.5
30°	8068.3	6743.0	5956.1	5894.6	6114.8	7081.4	8166.3	8356.5	7738.8	7613.3
32.5°	8370.3	6966.5	6097.0	6007.9	6304.2	7223.9	8422.9	8894.1	8258.6	8068.3
35°	8600.2	7209.4	6324.5	6177.9	6564.9	7440.1	8663.4	9466.5	8811.5	8603.5
37.5°	8815.6	7550.2	6679.9	6505.0	6973.8	7788.2	8917.6	10115.8	9430.1	9181.5
40°	9115.9	7936.4	7228.0	7072.5	7661.1	8262.6	9234.9	10792.6	10133.6	9821.1
42.5°	9416.3	8350.9	7789.0	7831.1	8518.5	8839.1	9644.6	11508.3	10828.2	10494.7
45°	9690.7	8778.3	8588.1	8782.4	9314.3	9471.3	10051.8	11922.0	11382.8	11060.6
47.5°	9935.2	9312.7	9382.3	9899.6	10219.4	10043.7	10356.2	12279.0	11795.7	11511.5
50°	10219.4	10004.0	10429.1	11160.9	11261.3	10561.9	10633.1	12701.6	12278.2	12049.9
52.5°	10530.3	10732.7	11588.4	12233.6	12201.3	11124.5	10911.6	13175.2	12939.6	12725.1
55°	10883.3	11321.2	12609.3	13237.5	13210.0	11752.8	11373.1	13760.5	13768.6	13574.3
57.5°	11407.1	11828.0	13302.3	14049.5	14095.7	12478.1	12155.1	14416.3	14518.3	14388.8
59°	11782.7	12156.7	13576.7	14388.8	14576.6	13039.2	12726.7	14796.8	14729.6	14611.4
60°	12061.2	12365.6	13712.8	14566.1	14855.9	13419.7	13148.5	15020.2	14754.7	14611.4
62.5°	12750.2	12820.6	13958.1	14766.8	15177.3	14264.9	14335.3	15400.7	14580.6	14346.7
65°	13071.6	13108.0	13954.8	14407.4	14866.4	14923.1	15412.1	15412.1	14155.6	13796.1
67.5°	12937.2	12761.5	13262.6	13215.7	13673.9	14532.1	15816.9	14847.0	13342.8	12878.1
70°	11844.2	11168.2	10945.6	10965.8	11316.4	12640.1	15015.4	13184.1	11804.6	11261.3
72.5°	9855.1	8233.5	7683.8	8311.2	8402.7	9714.2	12796.3	9928.8	8705.5	8196.2
75°	7926.7	5803.9	4910.1	5572.4	5727.8	7109.0	9898.8	6183.6	5085.0	4688.3
77.5°	5694.6	4166.1	3523.3	3477.2	3677.9	4508.6	7024.0	3112.0	2595.5	2422.3
80°	3235.1	2742.1	2952.6	2785.8	2887.0	2819.0	3337.1	1365.0	1118.0	1045.2
82.5°	1952.7	1620.8	1755.2	1461.3	1849.1	1610.3	1285.6	437.2	379.7	361.1
85°	1270.2	885.7	461.5	309.3	637.1	1029.0	287.4	119.0	91.5	72.9
87.5°	438.0	225.9	22.7	9.7	68.0	191.9	10.5	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)