

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: P324229

Luminaire Tested: **GAN-SA5A-760-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324229
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-SA5A-760-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 615mA 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: 17268 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

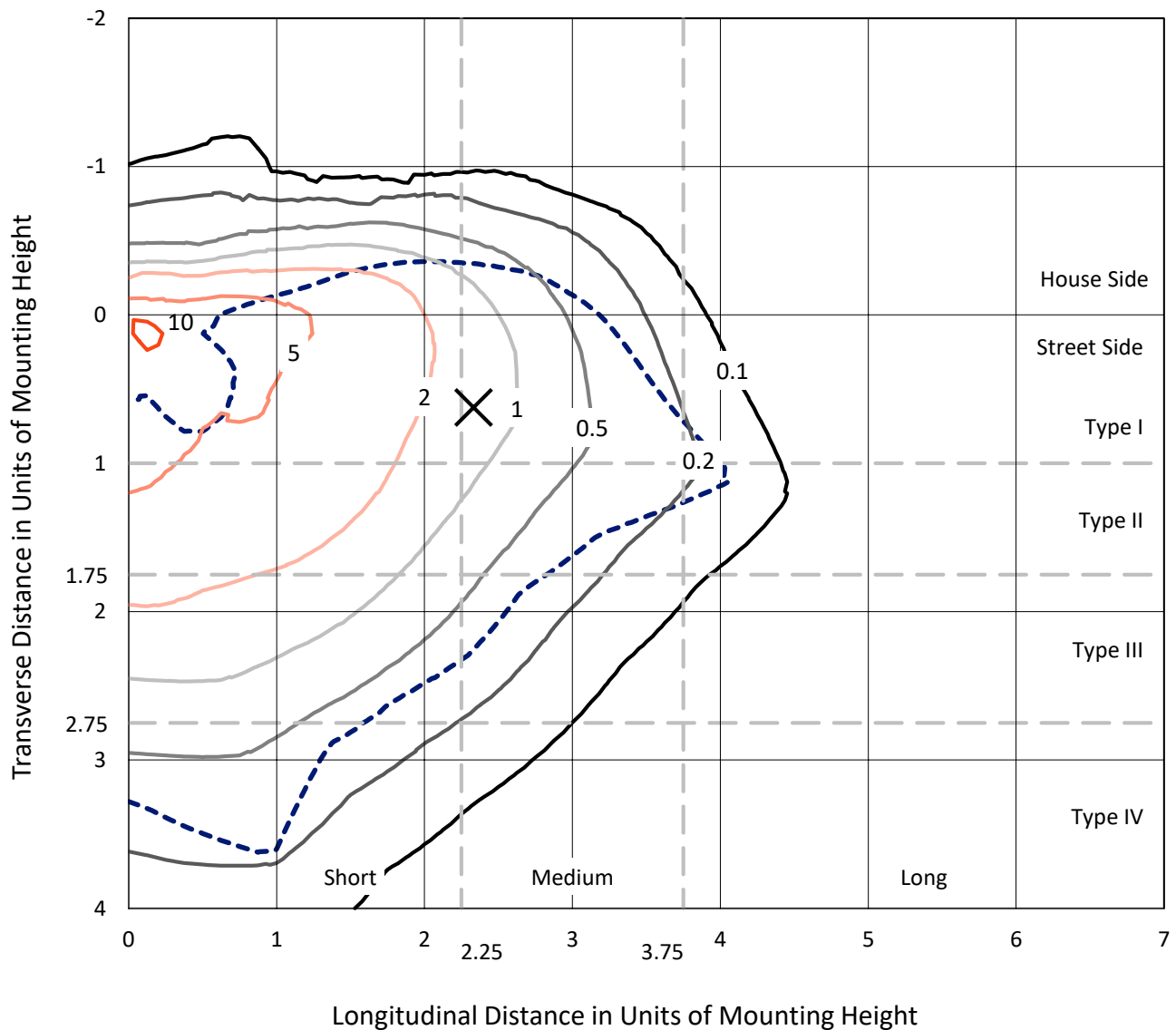


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Iso-Footcandle Lines of Horizontal Illumination

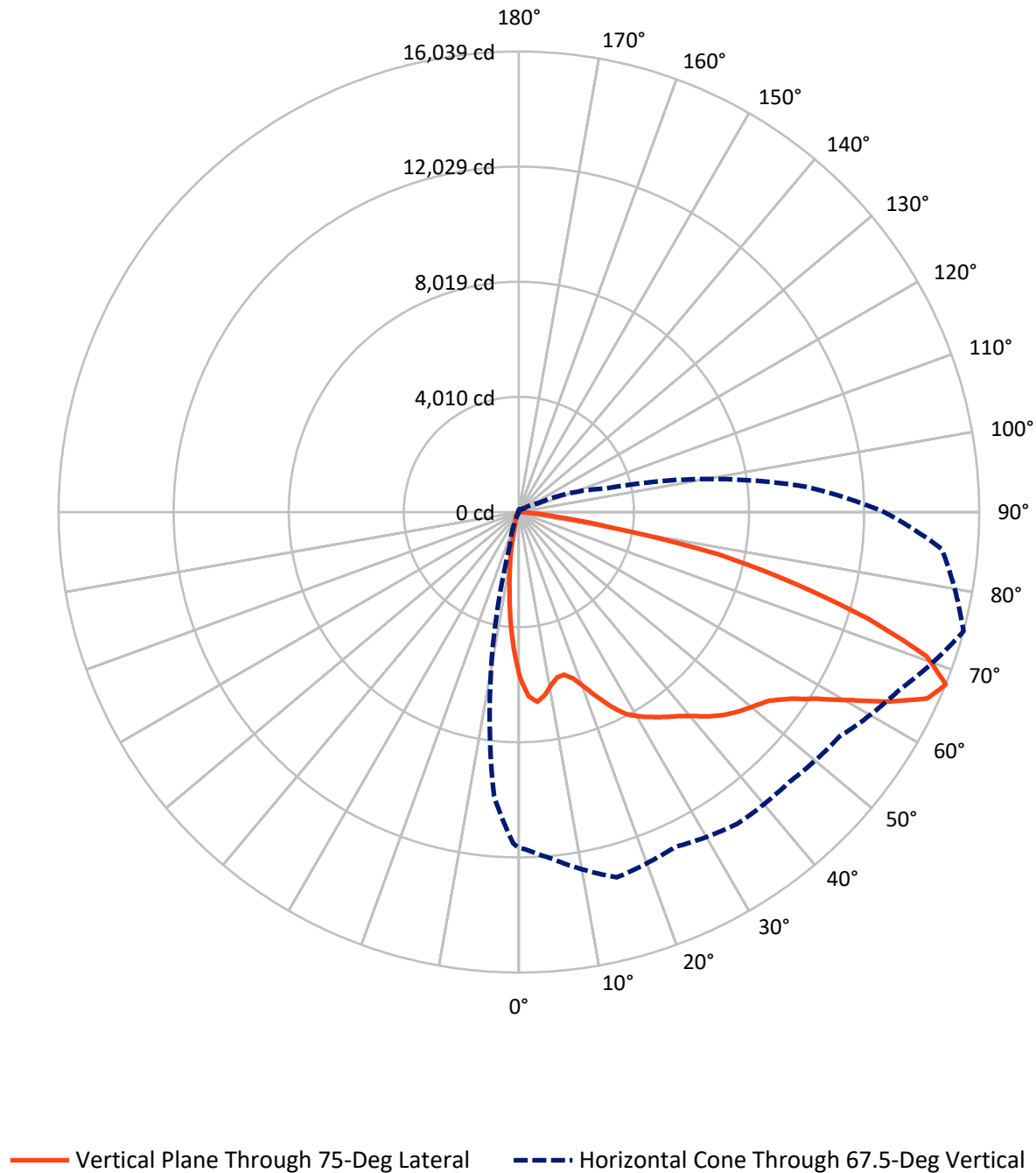
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2591.2	0.0	2591.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	14676.8	0.0	14676.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	17268.0	0.0	17268.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.4	2.5
10°-20°	865.3	5.0
20°-30°	1224.1	7.1
30°-40°	1799.8	10.4
40°-50°	2586.8	15.0
50°-60°	3641.6	21.1
60°-70°	4253.0	24.6
70°-80°	2169.8	12.6
80°-90°	288.2	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°	17268.0	100.0
0°-180°	17268.0	100.0

Coefficient of Utilization



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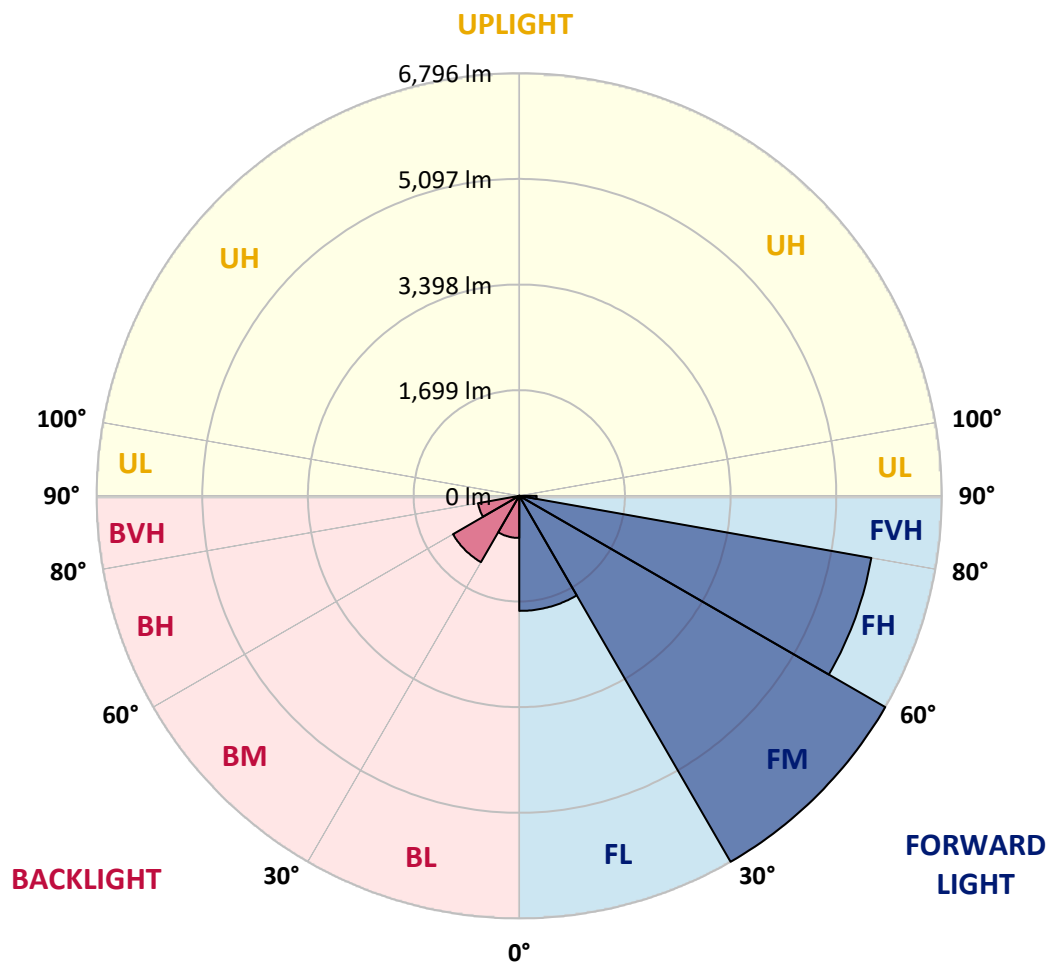
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1851.1	10.7			
FM	(30°-60°)	6796.4	39.4			
FH	(60°-80°)	5749.7	33.3			G3/7500
FVH	(80°-90°)	279.5	1.6			G3/500
BL	(0°-30°)	677.6	3.9	B2/1000		
BM	(30°-60°)	1231.8	7.1	B2/2500		
BH	(60°-80°)	673.1	3.9	B2/1000		G2/1000
BVH	(80°-90°)	8.7	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°	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1
2.5°	6279.8	6289.6	6340.4	6458.2	6586.6	6596.4	6683.1	6593.9	6563.7	6419.7	6270.8
5°	6327.3	6364.9	6539.1	6885.2	7185.4	7281.9	7350.6	7175.5	6991.5	6639.8	6264.3
7.5°	5945.3	6008.3	6282.3	6931.8	7468.4	7705.6	7750.6	7476.6	7025.9	6446.7	5882.3
10°	5456.1	5528.1	5858.6	6656.9	7394.0	7800.5	7862.7	7503.6	6855.7	6134.2	5469.2
12.5°	5060.2	5144.4	5482.3	6347.7	7137.9	7587.8	7710.5	7412.8	6708.5	5912.5	5187.0
15°	4877.8	4974.3	5329.3	6148.1	6854.1	7208.3	7309.7	7181.3	6626.7	5877.4	5121.5
17.5°	4982.5	5087.2	5453.6	6165.3	6587.4	6738.7	6820.5	6872.9	6626.7	6089.2	5312.9
20°	5411.9	5524.8	5912.5	6339.5	6366.5	6310.1	6397.6	6581.7	6703.6	6491.7	5772.7
22.5°	6005.8	6138.3	6576.0	6638.1	6258.6	6045.1	6056.5	6345.3	6843.4	7002.1	6410.7
25°	6729.7	6891.7	7336.7	7083.1	6303.6	5887.2	5883.1	6150.6	6980.0	7513.4	7121.6
27.5°	7448.8	7627.1	8018.1	7626.3	6489.2	5858.6	5850.4	6091.7	7113.4	7968.2	7897.8
30°	8051.6	8225.1	8562.1	8019.7	6689.7	5925.6	5886.4	6154.7	7192.7	8263.5	8463.9
32.5°	8542.4	8681.5	8953.9	8290.5	6904.0	6055.7	5970.6	6323.2	7327.7	8513.0	8984.2
35°	9082.3	9228.7	9337.5	8548.2	7144.5	6243.0	6121.1	6590.7	7535.5	8766.6	9554.3
37.5°	9698.3	9843.9	9830.8	8783.7	7449.6	6553.0	6475.3	7014.4	7858.6	9017.7	10190.7
40°	10301.1	10450.0	10343.7	9041.4	7807.9	7064.3	7007.0	7650.8	8291.3	9339.2	10936.7
42.5°	10865.6	11026.7	10799.3	9285.2	8234.9	7708.9	7807.0	8470.5	8832.8	9735.1	11579.7
45°	11320.4	11484.8	11181.3	9522.4	8684.8	8490.9	8786.2	9378.4	9484.0	10069.7	12014.1
47.5°	11650.9	11806.3	11446.4	9759.6	9260.6	9447.2	9961.7	10330.6	10072.1	10360.0	12322.4
50°	11861.9	11983.0	11524.1	10056.6	10016.5	10562.9	11186.2	11366.2	10625.9	10621.8	12697.1
52.5°	11996.1	12050.9	11581.3	10366.6	10805.0	11777.7	12385.4	12441.9	11196.0	10909.7	13201.8
55°	12458.2	12502.4	11987.1	10742.1	11457.0	12841.9	13470.1	13417.8	11841.5	11473.4	13797.3
57.5°	13246.8	13293.4	12825.5	11281.9	11984.6	13499.6	14256.2	14350.3	12598.1	12265.2	14435.4
60°	13642.7	13729.4	13562.5	11965.8	12495.9	13920.0	14792.0	15092.2	13543.7	13309.0	15053.8
62.5°	13283.6	13409.6	13651.7	12724.1	13003.8	14151.5	14958.9	15358.1	14512.2	14525.3	15435.0
65°	12567.0	12667.6	13078.3	13139.6	13298.3	14122.9	14546.6	14986.7	15105.3	15642.7	15414.5
67.5°	11701.6	11739.2	12087.7	13172.4	12871.3	13262.3	13308.1	13633.7	14636.6	16038.6	14795.3
70°	10455.8	10476.2	10780.5	12077.0	11061.1	11147.0	11079.1	11145.3	12583.4	15074.2	13232.1
72.5°	8414.8	8466.4	8899.1	10029.6	8058.2	7810.3	8343.7	8314.2	9690.9	12735.5	9827.5
75°	6195.6	6284.7	6938.3	8078.6	5655.7	5115.8	5505.2	5609.1	6889.2	9851.2	6145.7
77.5°	4337.9	4404.1	5037.3	5938.7	4093.3	3658.1	3517.4	3640.9	4547.3	7126.5	3096.2
80°	2499.0	2523.5	2927.6	3429.1	2758.3	3155.9	2858.9	2944.0	2724.8	3170.6	1331.7
82.5°	1635.2	1639.3	1797.2	2040.9	1717.8	1995.9	1477.3	1888.8	1676.1	1273.6	433.5
85°	883.4	888.4	1042.1	1448.7	972.6	549.7	323.1	663.4	1036.4	292.0	118.6
87.5°	97.3	89.2	314.1	526.8	269.9	49.9	17.2	74.4	166.1	18.8	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°	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1
2.5°	6194.8	6126.9	5957.5	5778.4	5634.4	5499.5	5363.7	5197.6	5069.2	5043.0	5000.5
5°	6062.2	5847.1	5492.1	5135.4	4848.3	4485.9	4256.1	4076.9	3901.9	3891.3	3856.1
7.5°	5599.3	5316.2	4816.4	4323.2	3919.1	3573.9	3225.4	2992.3	2809.0	2744.4	2706.0
10°	5154.3	4836.1	4211.9	3649.1	3288.4	2983.3	2737.9	2494.1	2273.2	2121.1	2052.4
12.5°	4843.4	4491.7	3803.7	3318.7	3060.2	2770.6	2471.2	2166.9	1912.5	1729.3	1617.2
15°	4723.2	4347.7	3667.1	3187.8	2868.7	2502.3	2119.5	1771.8	1489.6	1323.5	1222.9
17.5°	4866.3	4429.5	3656.5	3028.3	2582.4	2126.8	1703.9	1293.3	1027.4	901.4	836.8
20°	5229.5	4689.6	3652.4	2832.8	2242.2	1681.8	1154.2	850.7	689.6	619.2	589.0
22.5°	5743.2	5021.7	3685.1	2639.7	1888.0	1201.7	796.7	625.0	542.3	504.7	487.5
25°	6404.2	5488.0	3777.6	2464.7	1555.0	896.5	620.9	523.5	465.4	436.0	423.7
27.5°	7108.5	6024.6	3921.5	2312.5	1284.3	714.9	531.7	448.3	406.5	386.1	374.6
30°	7689.3	6646.3	4067.1	2143.2	1087.9	623.3	486.7	409.0	360.7	347.7	337.0
32.5°	8197.2	7116.7	4170.2	1990.2	959.5	553.8	440.1	365.6	332.9	307.6	296.1
35°	8723.2	7508.5	4166.9	1883.0	871.2	501.4	400.8	327.2	287.9	258.5	249.5
37.5°	9292.5	7951.0	4095.8	1791.4	832.7	459.7	378.7	306.8	267.5	238.0	226.6
40°	9959.2	8415.6	4023.0	1705.5	822.1	426.2	363.2	290.4	248.7	220.0	208.6
42.5°	10608.7	8834.5	3959.1	1641.7	776.3	425.4	349.3	278.1	233.9	206.1	193.0
45°	11128.2	9224.7	3946.9	1603.3	728.0	440.1	341.9	269.9	222.5	194.7	182.4
47.5°	11560.1	9648.4	4025.4	1576.3	682.2	401.6	359.9	264.2	211.9	184.9	171.0
50°	12073.8	10168.6	4210.3	1532.1	634.0	361.6	412.3	265.9	202.9	175.1	160.3
52.5°	12790.3	10888.5	4481.9	1457.7	567.7	324.7	405.7	267.5	193.0	164.4	149.7
55°	13593.6	11787.5	4773.9	1334.2	475.3	276.5	347.7	256.0	174.2	153.0	139.1
57.5°	14437.8	12603.0	4947.3	1186.9	377.9	238.9	278.1	233.1	153.8	137.4	128.4
60°	14570.3	12913.0	4868.0	1006.1	300.2	207.8	206.1	237.2	137.4	121.1	114.5
62.5°	14240.7	12523.7	4484.3	845.0	251.1	182.4	169.3	207.0	124.3	108.0	101.4
65°	13606.7	11470.9	3862.6	761.6	233.1	156.2	140.7	145.6	108.8	94.1	88.3
67.5°	12724.9	10065.6	3171.4	714.1	230.7	134.2	120.2	110.4	94.1	81.8	76.9
70°	10922.0	8385.4	2530.1	687.9	224.1	112.9	101.4	90.0	78.5	69.5	65.4
72.5°	8038.5	5942.0	1968.1	659.3	225.8	90.0	88.3	74.4	63.0	54.0	52.4
75°	4644.6	3394.7	1290.8	534.2	215.1	69.5	73.6	52.4	44.2	37.6	37.6
77.5°	2475.3	2070.4	491.6	222.5	78.5	44.2	41.7	31.1	27.8	22.9	22.1
80°	1078.9	911.3	148.1	62.2	43.4	23.7	15.5	13.9	12.3	9.8	9.0
82.5°	382.0	329.7	48.3	30.3	18.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	86.7	62.2	0.0	7.4	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°	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1
2.5°	4913.8	4895.8	4789.4	4793.5	4812.3	4839.3	4775.5	4805.0	4884.3	4960.4	4989.0
5°	3799.6	3803.7	3739.1	3779.2	3815.2	3839.7	3736.7	3738.3	3801.3	3887.2	3932.2
7.5°	2677.3	2670.8	2674.1	2769.8	2837.7	2788.6	2827.0	2693.7	2701.9	2763.2	2717.4
10°	1990.2	1900.2	1849.5	1921.5	1995.9	1968.9	1902.7	1859.3	1889.6	1957.5	1952.6
12.5°	1564.0	1434.8	1358.7	1307.2	1368.5	1317.8	1316.2	1278.5	1237.6	1245.0	1353.8
15°	1176.3	1082.2	992.2	909.6	908.0	890.8	803.3	705.1	696.9	701.8	758.3
17.5°	809.0	777.1	740.3	669.1	650.3	578.3	493.3	454.0	434.4	443.4	462.2
20°	568.5	556.2	560.3	521.9	494.9	426.2	376.3	360.7	357.5	366.5	375.5
22.5°	471.2	449.1	446.6	429.5	402.5	352.6	325.6	316.6	312.5	320.7	327.2
25°	412.3	390.2	381.2	370.6	341.9	307.6	291.2	283.0	278.9	283.8	287.9
27.5°	363.2	342.7	334.6	327.2	299.4	274.9	261.8	254.4	251.1	252.8	256.9
30°	326.4	308.4	297.8	288.8	265.0	247.9	236.4	229.0	225.8	225.8	229.9
32.5°	287.9	278.1	268.3	256.9	234.8	223.3	211.9	203.7	200.4	201.2	204.5
35°	239.7	236.4	238.9	228.2	209.4	199.6	188.1	179.1	176.7	177.5	180.8
37.5°	212.7	198.0	207.0	201.2	190.6	177.5	162.8	154.6	150.5	153.0	154.6
40°	195.5	177.5	171.0	176.7	175.1	153.8	140.7	132.5	129.2	130.1	131.7
42.5°	180.8	159.5	144.8	144.0	153.8	134.2	120.2	112.9	108.8	108.8	110.4
45°	166.9	144.0	126.0	112.1	129.2	113.7	100.6	94.1	89.2	89.2	90.0
47.5°	156.2	130.9	109.6	91.6	97.3	93.3	82.6	76.1	71.2	71.2	72.0
50°	146.4	117.8	94.9	76.9	72.8	76.9	67.1	59.7	56.4	55.6	57.3
52.5°	135.8	104.7	81.0	65.4	57.3	58.1	52.4	47.4	43.4	43.4	45.0
55°	125.2	94.1	70.3	55.6	47.4	43.4	41.7	38.4	35.2	35.2	36.8
57.5°	114.5	82.6	59.7	45.8	37.6	34.4	34.4	31.9	29.4	29.4	31.1
60°	104.7	71.2	49.1	37.6	29.4	28.6	29.4	27.0	25.4	25.4	27.0
62.5°	93.3	60.5	40.1	31.1	23.7	22.9	25.4	23.7	22.1	22.1	23.7
65°	79.3	51.5	31.9	23.7	18.0	18.0	21.3	19.6	18.0	18.0	19.6
67.5°	67.1	43.4	24.5	17.2	13.1	13.9	18.0	16.4	15.5	15.5	17.2
70°	55.6	33.5	17.2	10.6	7.4	10.6	13.9	13.9	13.9	13.9	15.5
72.5°	41.7	22.9	9.8	4.1	3.3	7.4	11.5	13.1	12.3	12.3	14.7
75°	27.0	13.1	3.3	0.0	0.0	4.1	9.0	10.6	10.6	9.8	12.3
77.5°	15.5	4.1	0.0	0.0	0.0	0.0	5.7	4.9	4.1	3.3	5.7
80°	4.1	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°	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1	5793.1
2.5°	5104.4	5200.9	5336.7	5480.6	5702.3	5878.2	6050.8	6198.8	6256.1	6279.8
5°	4040.1	4181.6	4380.4	4635.6	5035.6	5395.6	5760.4	6127.7	6287.2	6327.3
7.5°	2899.0	3079.8	3332.6	3652.4	4121.1	4587.4	5097.0	5636.1	5883.1	5945.3
10°	2145.6	2366.5	2656.1	2993.1	3440.5	3919.9	4475.3	5091.3	5373.5	5456.1
12.5°	1522.3	1820.9	2208.6	2618.4	3006.2	3434.0	3996.0	4674.9	4971.0	5060.2
15°	894.1	1182.8	1641.7	2190.6	2687.1	3120.7	3691.7	4461.4	4787.8	4877.8
17.5°	512.9	656.9	1003.7	1615.6	2289.6	2890.0	3596.0	4514.6	4899.0	4982.5
20°	391.8	437.6	578.3	1040.5	1825.0	2663.4	3596.0	4815.6	5289.2	5411.9
22.5°	342.7	376.3	433.5	620.9	1343.2	2420.5	3637.7	5250.8	5870.0	6005.8
25°	304.3	334.6	383.6	467.1	916.2	2131.7	3736.7	5784.9	6553.9	6729.7
27.5°	272.4	301.0	345.2	409.0	626.6	1783.3	3870.0	6411.5	7308.1	7448.8
30°	243.8	270.8	310.8	355.8	483.4	1388.2	3983.7	7002.1	7900.3	8051.6
32.5°	216.8	241.3	277.3	310.8	395.9	1026.6	3996.0	7470.0	8391.9	8542.4
35°	191.4	213.5	246.2	272.4	328.0	810.6	3805.4	7875.8	8883.5	9082.3
37.5°	166.9	188.1	216.8	236.4	288.8	660.9	3514.2	8328.1	9514.2	9698.3
40°	144.0	162.8	192.2	205.3	273.2	508.0	3197.6	8802.6	10132.6	10301.1
42.5°	122.7	140.7	169.3	194.7	239.7	379.6	2855.7	9247.6	10688.9	10865.6
45°	102.3	121.1	149.7	206.1	198.8	283.8	2490.0	9542.9	11128.2	11320.4
47.5°	82.6	103.9	143.2	196.3	158.7	208.6	2200.4	9822.6	11461.1	11650.9
50°	66.3	87.5	161.1	175.1	130.1	159.5	2079.4	10072.9	11679.5	11861.9
52.5°	54.0	73.6	152.1	134.2	108.8	131.7	2144.8	10478.7	11881.5	11996.1
55°	45.0	58.1	91.6	93.3	92.4	112.1	2225.8	11061.1	12404.2	12458.2
57.5°	39.3	46.6	63.8	72.0	77.7	99.8	2227.4	11897.1	13213.3	13246.8
60°	33.5	40.9	53.2	58.1	67.1	89.2	2146.4	12189.1	13531.5	13642.7
62.5°	29.4	36.0	44.2	48.3	56.4	80.2	1956.7	11766.2	13094.6	13283.6
65°	26.2	32.7	36.8	40.9	49.9	72.0	1644.2	10920.4	12369.9	12567.0
67.5°	22.9	28.6	32.7	36.8	45.0	63.8	1210.6	9938.0	11538.0	11701.6
70°	20.5	25.4	29.4	32.7	39.3	54.0	734.6	8432.8	10387.9	10455.8
72.5°	19.6	22.9	27.0	29.4	34.4	47.4	372.2	6197.2	8304.4	8414.8
75°	17.2	20.5	24.5	26.2	30.3	40.9	151.3	4070.4	6018.1	6195.6
77.5°	13.9	18.8	22.1	23.7	26.2	33.5	76.9	2601.3	4223.4	4337.9
80°	4.9	13.9	18.8	19.6	22.1	24.5	50.7	1424.1	2449.9	2499.0
82.5°	0.0	9.0	14.7	13.9	15.5	18.8	32.7	677.3	1617.2	1635.2
85°	0.0	4.1	11.5	9.0	6.5	13.1	11.5	148.1	848.3	883.4
87.5°	0.0	0.0	0.8	4.1	3.3	4.9	1.6	0.8	76.9	97.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)