

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: P324238

Luminaire Tested: **GAN-SA4B-760-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324238
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-760-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 17089 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

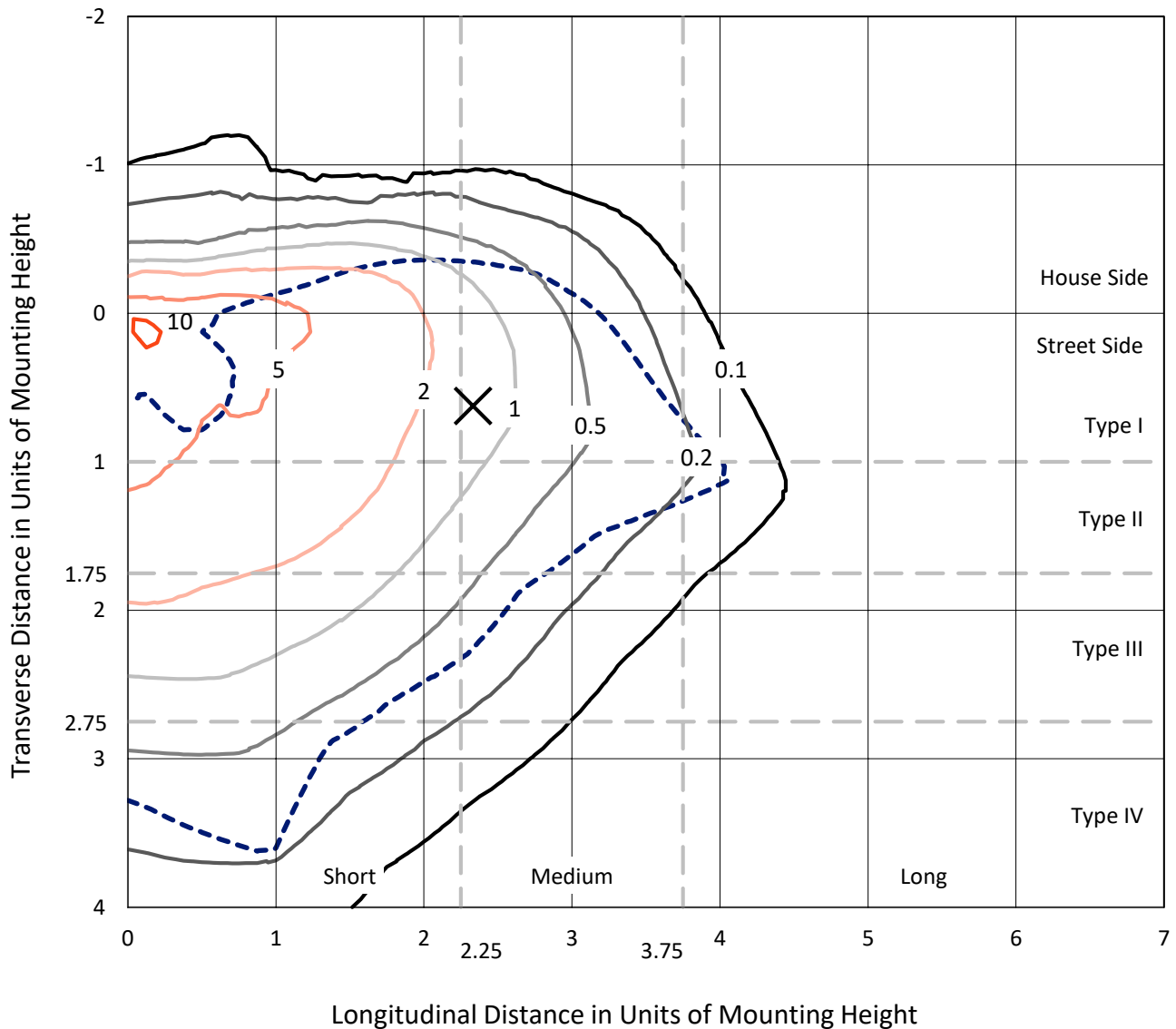
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

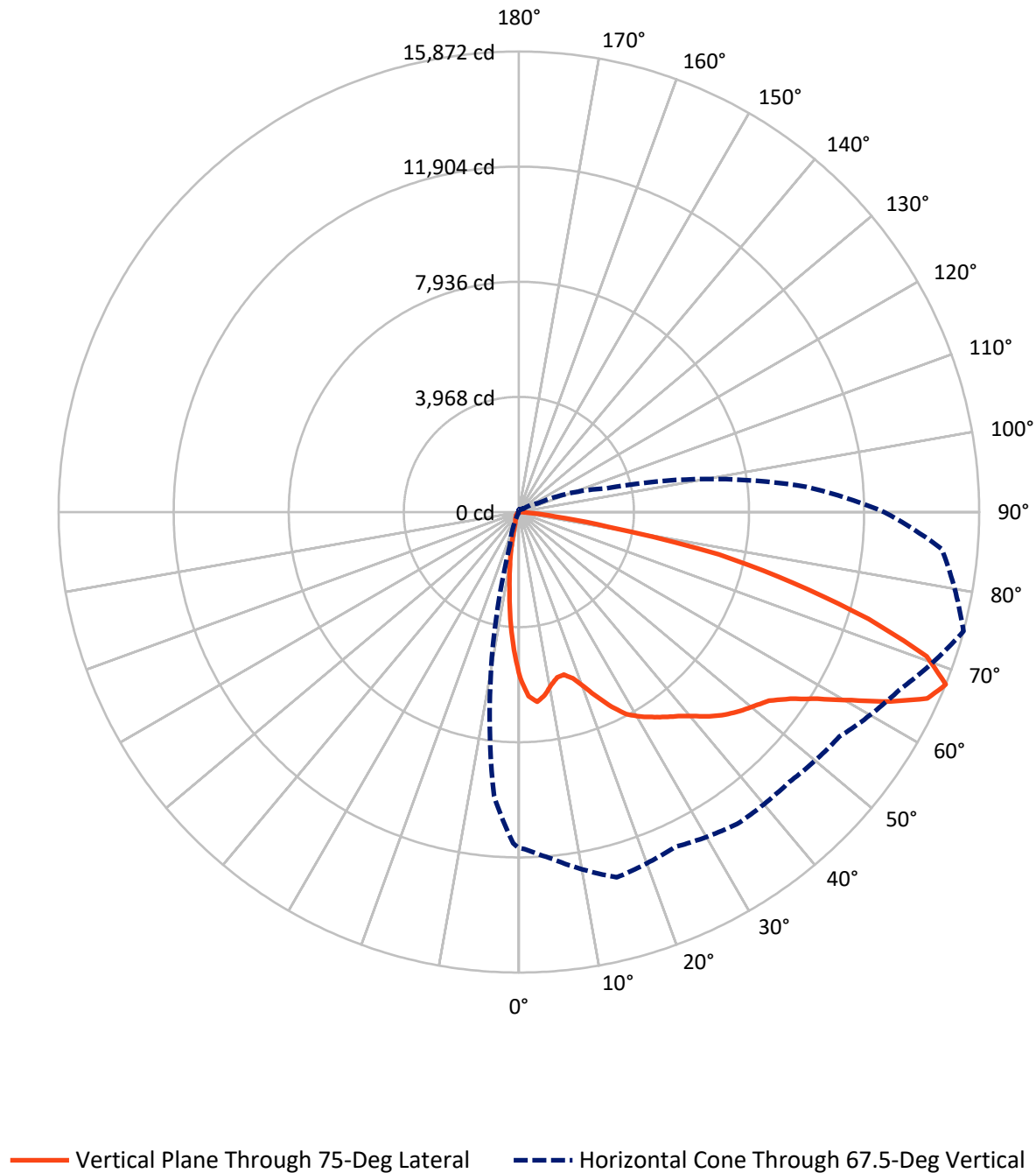
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	2564.4	0.0	2564.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	14524.6	0.0	14524.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	17089.0	0.0	17089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.9	2.5
10°-20°	856.3	5.0
20°-30°	1211.4	7.1
30°-40°	1781.1	10.4
40°-50°	2560.0	15.0
50°-60°	3603.8	21.1
60°-70°	4209.0	24.6
70°-80°	2147.3	12.6
80°-90°	285.2	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°	17089.0	100.0
0°-180°	17089.0	100.0

Coefficient of Utilization



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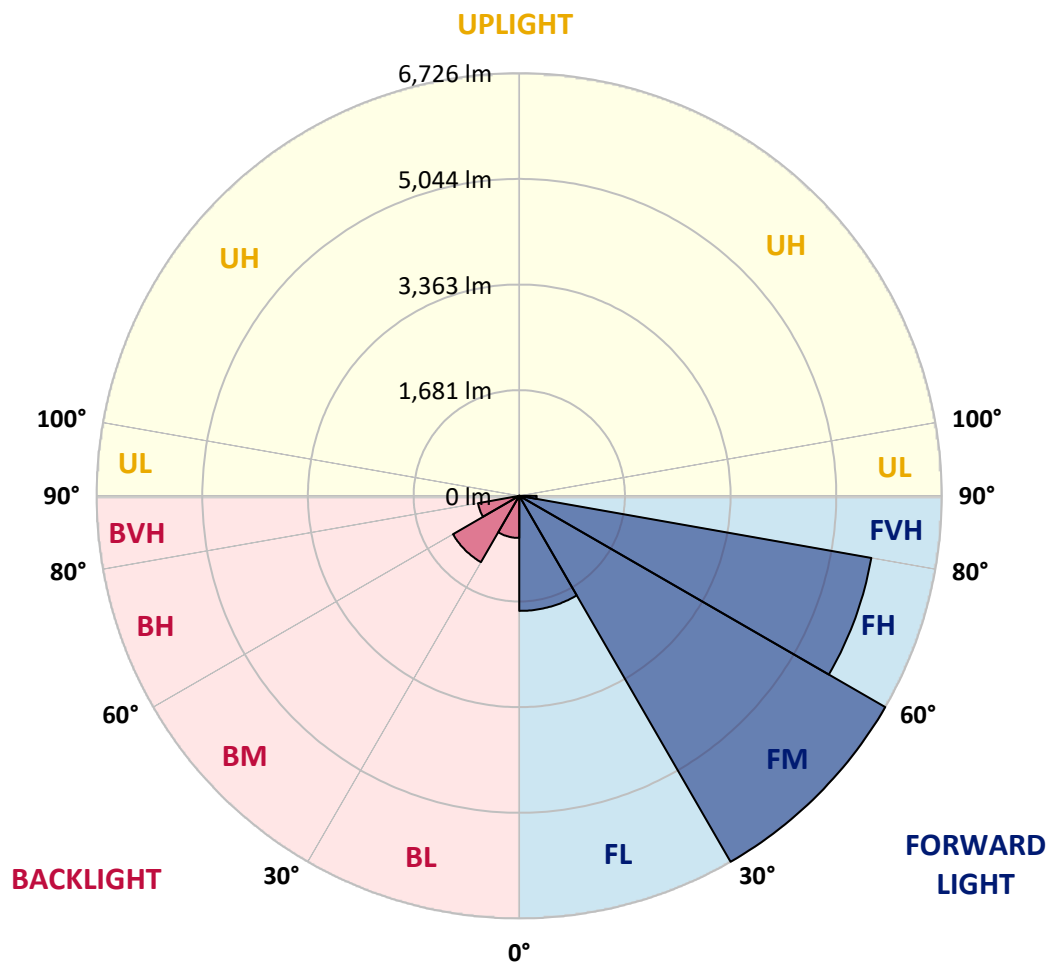
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1831.9	10.7			
FM	(30°-60°)	6725.9	39.4			
FH	(60°-80°)	5690.1	33.3			G3/7500
FVH	(80°-90°)	276.6	1.6			G3/500
BL	(0°-30°)	670.6	3.9	B2/1000		
BM	(30°-60°)	1219.0	7.1	B2/2500		
BH	(60°-80°)	666.1	3.9	B2/1000		G2/1000
BVH	(80°-90°)	8.6	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°	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1
2.5°	6214.7	6224.4	6274.6	6391.2	6518.3	6528.0	6613.8	6525.6	6495.6	6353.2	6205.8
5°	6261.7	6298.9	6471.4	6813.8	7110.9	7206.4	7274.4	7101.2	6919.0	6570.9	6199.4
7.5°	5883.6	5946.0	6217.2	6859.9	7391.0	7625.7	7670.3	7399.1	6953.0	6379.9	5821.3
10°	5399.5	5470.8	5797.8	6587.9	7317.3	7719.6	7781.2	7425.8	6784.6	6070.6	5412.5
12.5°	5007.7	5091.1	5425.4	6281.9	7063.9	7509.2	7630.6	7335.9	6638.9	5851.3	5133.2
15°	4827.2	4922.7	5274.1	6084.4	6783.0	7133.5	7233.9	7106.8	6558.0	5816.4	5068.4
17.5°	4930.8	5034.4	5397.1	6101.4	6519.1	6668.9	6749.8	6801.6	6558.0	6026.1	5257.9
20°	5355.8	5467.5	5851.3	6273.8	6300.5	6244.7	6331.3	6513.5	6634.1	6424.4	5712.8
22.5°	5943.5	6074.7	6507.8	6569.3	6193.7	5982.4	5993.7	6279.5	6772.5	6929.5	6344.3
25°	6660.0	6820.3	7260.6	7009.7	6238.2	5826.2	5822.1	6086.8	6907.7	7435.5	7047.7
27.5°	7371.5	7548.0	7935.0	7547.2	6422.0	5797.8	5789.7	6028.5	7039.6	7885.6	7816.0
30°	7968.2	8139.8	8473.3	7936.6	6620.3	5864.2	5825.4	6090.9	7118.2	8177.8	8376.2
32.5°	8453.9	8591.5	8861.1	8204.6	6832.4	5992.9	5908.7	6257.6	7251.7	8424.7	8891.0
35°	8988.2	9133.1	9240.7	8459.6	7070.4	6178.3	6057.7	6522.4	7457.4	8675.7	9455.3
37.5°	9597.7	9741.8	9728.9	8692.7	7372.4	6485.1	6408.2	6941.7	7777.1	8924.2	10085.1
40°	10194.4	10341.7	10236.5	8947.7	7726.9	6991.1	6934.4	7571.5	8205.4	9242.4	10823.4
42.5°	10752.9	10912.4	10687.4	9188.9	8149.5	7629.0	7726.1	8382.6	8741.3	9634.2	11459.7
45°	11203.0	11365.8	11065.4	9423.7	8594.7	8402.9	8695.1	9281.2	9385.7	9965.3	11889.5
47.5°	11530.1	11683.9	11327.7	9658.5	9164.7	9349.2	9858.4	10223.5	9967.7	10252.7	12194.7
50°	11738.9	11858.8	11404.6	9952.3	9912.7	10453.4	11070.3	11248.4	10515.8	10511.7	12565.5
52.5°	11871.7	11925.9	11461.3	10259.1	10693.0	11655.6	12257.0	12312.9	11080.0	10796.7	13064.9
55°	12329.1	12372.8	11862.8	10630.7	11338.2	12708.8	13330.5	13278.7	11718.7	11354.4	13654.3
57.5°	13109.5	13155.6	12692.6	11165.0	11860.4	13359.6	14108.4	14201.5	12467.5	12138.0	14285.7
60°	13501.3	13587.1	13422.0	11841.8	12366.3	13775.7	14638.7	14935.8	13403.3	13171.0	14897.7
62.5°	13145.9	13270.6	13510.2	12592.2	12869.0	14004.8	14803.8	15198.9	14361.8	14374.8	15275.0
65°	12436.8	12536.3	12942.7	13003.4	13160.5	13976.5	14395.8	14831.3	14948.7	15480.6	15254.7
67.5°	11580.3	11617.5	11962.4	13035.8	12737.9	13124.9	13170.2	13492.4	14484.9	15872.4	14641.9
70°	10347.4	10367.6	10668.8	11951.9	10946.4	11031.4	10964.2	11029.8	12452.9	14918.0	13094.9
72.5°	8327.6	8378.6	8806.8	9925.6	7974.6	7729.4	8257.2	8228.0	9590.5	12603.5	9725.7
75°	6131.4	6219.6	6866.4	7994.9	5597.1	5062.8	5448.1	5550.9	6817.8	9749.1	6082.0
77.5°	4292.9	4358.5	4985.1	5877.2	4050.9	3620.2	3481.0	3603.2	4500.2	7052.6	3064.1
80°	2473.1	2497.4	2897.3	3393.5	2729.7	3123.2	2829.3	2913.5	2696.5	3137.7	1317.9
82.5°	1618.2	1622.3	1778.5	2019.8	1700.0	1975.2	1462.0	1869.2	1658.7	1260.4	429.0
85°	874.3	879.1	1031.3	1433.7	962.5	544.0	319.8	656.5	1025.7	289.0	117.4
87.5°	96.3	88.2	310.9	521.3	267.1	49.4	17.0	73.7	164.3	18.6	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°	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1
2.5°	6130.5	6063.4	5895.8	5718.5	5576.0	5442.4	5308.1	5143.7	5016.6	4990.7	4948.6
5°	5999.4	5786.5	5435.2	5082.2	4798.1	4439.4	4212.0	4034.7	3861.4	3850.9	3816.1
7.5°	5541.2	5261.1	4766.5	4278.3	3878.4	3536.8	3192.0	2961.2	2779.9	2716.0	2677.9
10°	5100.8	4785.9	4168.3	3611.3	3254.3	2952.3	2709.5	2468.2	2249.7	2099.1	2031.1
12.5°	4793.2	4445.1	3764.3	3284.2	3028.4	2741.9	2445.6	2144.4	1892.7	1711.3	1600.4
15°	4674.2	4302.6	3629.1	3154.7	2839.0	2476.3	2097.5	1753.4	1474.1	1309.8	1210.2
17.5°	4815.9	4383.6	3618.6	2996.9	2555.7	2104.8	1686.2	1279.9	1016.8	892.1	828.1
20°	5175.3	4641.0	3614.5	2803.4	2218.9	1664.4	1142.2	841.9	682.4	612.8	582.9
22.5°	5683.7	4969.7	3646.9	2612.3	1868.4	1189.2	788.5	618.5	536.7	499.5	482.5
25°	6337.8	5431.1	3738.4	2439.1	1538.9	887.2	614.4	518.1	460.6	431.5	419.3
27.5°	7034.8	5962.2	3880.9	2288.5	1271.0	707.5	526.2	443.6	402.3	382.1	370.8
30°	7609.5	6577.4	4025.0	2121.0	1076.7	616.9	481.7	404.8	357.0	344.0	333.5
32.5°	8112.3	7042.9	4127.0	1969.6	949.6	548.0	435.5	361.9	329.5	304.4	293.0
35°	8632.8	7430.6	4123.7	1863.5	862.1	496.2	396.7	323.8	285.0	255.8	246.9
37.5°	9196.2	7868.6	4053.3	1772.9	824.1	455.0	374.8	303.6	264.7	235.6	224.2
40°	9856.0	8328.4	3981.3	1687.9	813.6	421.8	359.4	287.4	246.1	217.8	206.4
42.5°	10498.8	8742.9	3918.1	1624.7	768.2	421.0	345.7	275.2	231.5	204.0	191.0
45°	11012.8	9129.0	3906.0	1586.7	720.5	435.5	338.4	267.1	220.2	192.7	180.5
47.5°	11440.2	9548.4	3983.7	1560.0	675.1	397.5	356.2	261.5	209.7	183.0	169.2
50°	11948.6	10063.2	4166.6	1516.2	627.4	357.8	408.0	263.1	200.8	173.2	158.7
52.5°	12657.8	10775.6	4435.4	1442.6	561.8	321.4	401.5	264.7	191.0	162.7	148.1
55°	13452.7	11665.3	4724.4	1320.3	470.3	273.6	344.0	253.4	172.4	151.4	137.6
57.5°	14288.1	12472.4	4896.0	1174.6	374.0	236.4	275.2	230.7	152.2	136.0	127.1
60°	14419.3	12779.2	4817.5	995.7	297.1	205.6	204.0	234.8	136.0	119.8	113.3
62.5°	14093.0	12393.9	4437.8	836.2	248.5	180.5	167.6	204.8	123.0	106.9	100.4
65°	13465.7	11352.0	3822.6	753.7	230.7	154.6	139.2	144.1	107.7	93.1	87.4
67.5°	12593.0	9961.2	3138.5	706.7	228.3	132.8	119.0	109.3	93.1	81.0	76.1
70°	10808.8	8298.5	2503.9	680.8	221.8	111.7	100.4	89.0	77.7	68.8	64.8
72.5°	7955.2	5880.4	1947.7	652.5	223.4	89.0	87.4	73.7	62.3	53.4	51.8
75°	4596.5	3359.5	1277.4	528.6	212.9	68.8	72.9	51.8	43.7	37.2	37.2
77.5°	2449.6	2048.9	486.5	220.2	77.7	43.7	41.3	30.8	27.5	22.7	21.9
80°	1067.8	901.8	146.5	61.5	42.9	23.5	15.4	13.8	12.1	9.7	8.9
82.5°	378.0	326.2	47.8	30.0	18.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	85.8	61.5	0.0	7.3	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°	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1
2.5°	4862.8	4845.0	4739.8	4743.8	4762.4	4789.2	4726.0	4755.2	4833.7	4909.0	4937.3
5°	3760.3	3764.3	3700.3	3740.0	3775.6	3799.9	3697.9	3699.5	3761.9	3846.9	3891.4
7.5°	2649.6	2643.1	2646.3	2741.1	2808.2	2759.7	2797.7	2665.8	2673.9	2734.6	2689.2
10°	1969.6	1880.5	1830.3	1901.6	1975.2	1948.5	1883.0	1840.1	1870.0	1937.2	1932.3
12.5°	1547.8	1419.9	1344.6	1293.6	1354.3	1304.1	1302.5	1265.3	1224.8	1232.1	1339.8
15°	1164.1	1071.0	982.0	900.2	898.6	881.6	795.0	697.8	689.7	694.6	750.4
17.5°	800.6	769.1	732.6	662.2	643.6	572.3	488.1	449.3	429.9	438.8	457.4
20°	562.6	550.5	554.5	516.5	489.8	421.8	372.4	357.0	353.8	362.7	371.6
22.5°	466.3	444.4	442.0	425.0	398.3	348.9	322.2	313.3	309.2	317.3	323.8
25°	408.0	386.1	377.2	366.7	338.4	304.4	288.2	280.1	276.0	280.9	285.0
27.5°	359.4	339.2	331.1	323.8	296.3	272.0	259.0	251.8	248.5	250.1	254.2
30°	323.0	305.2	294.7	285.8	262.3	245.3	234.0	226.7	223.4	223.4	227.5
32.5°	285.0	275.2	265.5	254.2	232.3	221.0	209.7	201.6	198.3	199.1	202.4
35°	237.2	234.0	236.4	225.9	207.2	197.5	186.2	177.3	174.9	175.7	178.9
37.5°	210.5	195.9	204.8	199.1	188.6	175.7	161.1	153.0	149.0	151.4	153.0
40°	193.5	175.7	169.2	174.9	173.2	152.2	139.2	131.1	127.9	128.7	130.3
42.5°	178.9	157.9	143.3	142.5	152.2	132.8	119.0	111.7	107.7	107.7	109.3
45°	165.1	142.5	124.7	110.9	127.9	112.5	99.6	93.1	88.2	88.2	89.0
47.5°	154.6	129.5	108.5	90.7	96.3	92.3	81.8	75.3	70.4	70.4	71.2
50°	144.9	116.6	93.9	76.1	72.0	76.1	66.4	59.1	55.9	55.0	56.7
52.5°	134.4	103.6	80.1	64.8	56.7	57.5	51.8	47.0	42.9	42.9	44.5
55°	123.9	93.1	69.6	55.0	47.0	42.9	41.3	38.0	34.8	34.8	36.4
57.5°	113.3	81.8	59.1	45.3	37.2	34.0	34.0	31.6	29.1	29.1	30.8
60°	103.6	70.4	48.6	37.2	29.1	28.3	29.1	26.7	25.1	25.1	26.7
62.5°	92.3	59.9	39.7	30.8	23.5	22.7	25.1	23.5	21.9	21.9	23.5
65°	78.5	51.0	31.6	23.5	17.8	17.8	21.0	19.4	17.8	17.8	19.4
67.5°	66.4	42.9	24.3	17.0	13.0	13.8	17.8	16.2	15.4	15.4	17.0
70°	55.0	33.2	17.0	10.5	7.3	10.5	13.8	13.8	13.8	13.8	15.4
72.5°	41.3	22.7	9.7	4.0	3.2	7.3	11.3	13.0	12.1	12.1	14.6
75°	26.7	13.0	3.2	0.0	0.0	4.0	8.9	10.5	10.5	9.7	12.1
77.5°	15.4	4.0	0.0	0.0	0.0	0.0	5.7	4.9	4.0	3.2	5.7
80°	4.0	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°	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1
2.5°	5051.4	5147.0	5281.4	5423.8	5643.2	5817.3	5988.1	6134.6	6191.3	6214.7
5°	3998.3	4138.3	4335.0	4587.6	4983.4	5339.6	5700.7	6064.2	6222.0	6261.7
7.5°	2869.0	3047.9	3298.0	3614.5	4078.4	4539.8	5044.2	5577.6	5822.1	5883.6
10°	2123.4	2342.0	2628.5	2962.1	3404.9	3879.3	4428.9	5038.5	5317.8	5399.5
12.5°	1506.5	1802.0	2185.7	2591.3	2975.0	3398.4	3954.5	4626.4	4919.5	5007.7
15°	884.8	1170.6	1624.7	2167.9	2659.3	3088.3	3653.4	4415.2	4738.2	4827.2
17.5°	507.6	650.0	993.3	1598.8	2265.9	2860.1	3558.7	4467.8	4848.3	4930.8
20°	387.8	433.1	572.3	1029.7	1806.1	2635.8	3558.7	4765.7	5234.4	5355.8
22.5°	339.2	372.4	429.0	614.4	1329.2	2395.4	3600.0	5196.4	5809.2	5943.5
25°	301.1	331.1	379.7	462.2	906.7	2109.6	3697.9	5725.0	6485.9	6660.0
27.5°	269.6	297.9	341.6	404.8	620.1	1764.8	3829.9	6345.1	7232.3	7371.5
30°	241.2	268.0	307.6	352.1	478.4	1373.8	3942.4	6929.5	7818.4	7968.2
32.5°	214.5	238.8	274.4	307.6	391.8	1016.0	3954.5	7392.6	8304.9	8453.9
35°	189.4	211.3	243.7	269.6	324.6	802.2	3765.9	7794.1	8791.5	8988.2
37.5°	165.1	186.2	214.5	234.0	285.8	654.1	3477.7	8241.8	9415.6	9597.7
40°	142.5	161.1	190.2	203.2	270.4	502.7	3164.4	8711.3	10027.6	10194.4
42.5°	121.4	139.2	167.6	192.7	237.2	375.6	2826.1	9151.7	10578.1	10752.9
45°	101.2	119.8	148.1	204.0	196.7	280.9	2464.2	9443.9	11012.8	11203.0
47.5°	81.8	102.8	141.7	194.3	157.0	206.4	2177.6	9720.8	11342.3	11530.1
50°	65.6	86.6	159.5	173.2	128.7	157.9	2057.8	9968.5	11558.4	11738.9
52.5°	53.4	72.9	150.6	132.8	107.7	130.3	2122.6	10370.0	11758.4	11871.7
55°	44.5	57.5	90.7	92.3	91.5	110.9	2202.7	10946.4	12275.7	12329.1
57.5°	38.9	46.1	63.1	71.2	76.9	98.8	2204.3	11773.8	13076.3	13109.5
60°	33.2	40.5	52.6	57.5	66.4	88.2	2124.2	12062.8	13391.2	13501.3
62.5°	29.1	35.6	43.7	47.8	55.9	79.3	1936.4	11644.2	12958.9	13145.9
65°	25.9	32.4	36.4	40.5	49.4	71.2	1627.1	10807.2	12241.7	12436.8
67.5°	22.7	28.3	32.4	36.4	44.5	63.1	1198.1	9834.9	11418.4	11580.3
70°	20.2	25.1	29.1	32.4	38.9	53.4	727.0	8345.4	10280.2	10347.4
72.5°	19.4	22.7	26.7	29.1	34.0	47.0	368.3	6133.0	8218.3	8327.6
75°	17.0	20.2	24.3	25.9	30.0	40.5	149.8	4028.2	5955.7	6131.4
77.5°	13.8	18.6	21.9	23.5	25.9	33.2	76.1	2574.3	4179.6	4292.9
80°	4.9	13.8	18.6	19.4	21.9	24.3	50.2	1409.4	2424.5	2473.1
82.5°	0.0	8.9	14.6	13.8	15.4	18.6	32.4	670.3	1600.4	1618.2
85°	0.0	4.0	11.3	8.9	6.5	13.0	11.3	146.5	839.5	874.3
87.5°	0.0	0.0	0.8	4.0	3.2	4.9	1.6	0.8	76.1	96.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)