

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: P193830

Luminaire Tested: **GAN-AF-02-LED-U-SLL-8030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-SLL-8030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8734 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

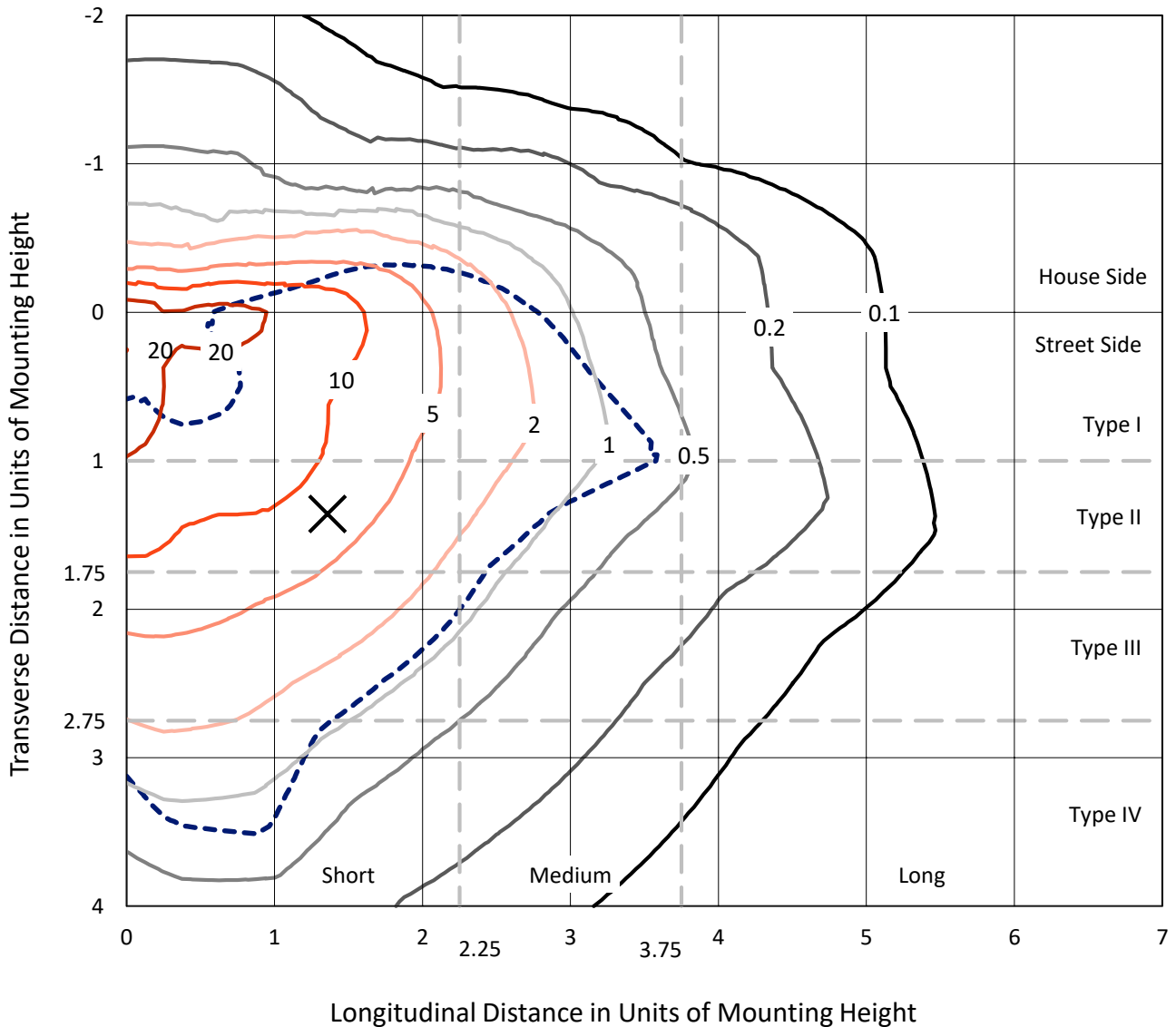
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

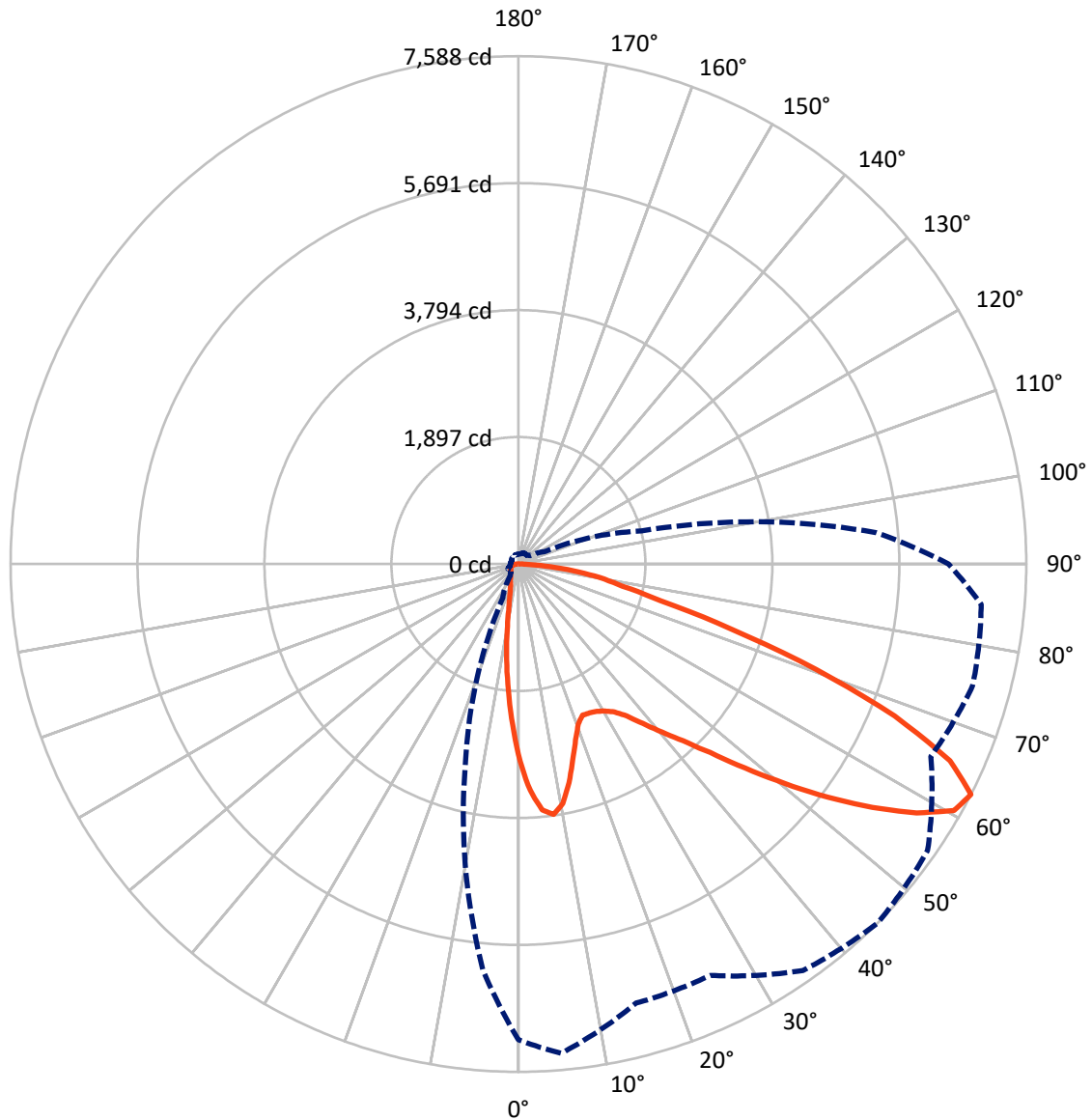
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 34.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1445.4	0.0	1445.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7288.6	0.0	7288.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	8734.0	0.0	8734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.8	2.5
10°-20°	393.9	4.5
20°-30°	574.3	6.6
30°-40°	884.5	10.1
40°-50°	1301.8	14.9
50°-60°	1909.4	21.9
60°-70°	2134.4	24.4
70°-80°	1045.0	12.0
80°-90°	275.9	3.2
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°	8734.0	100.0
0°-180°	8734.0	100.0

Coefficient of Utilization



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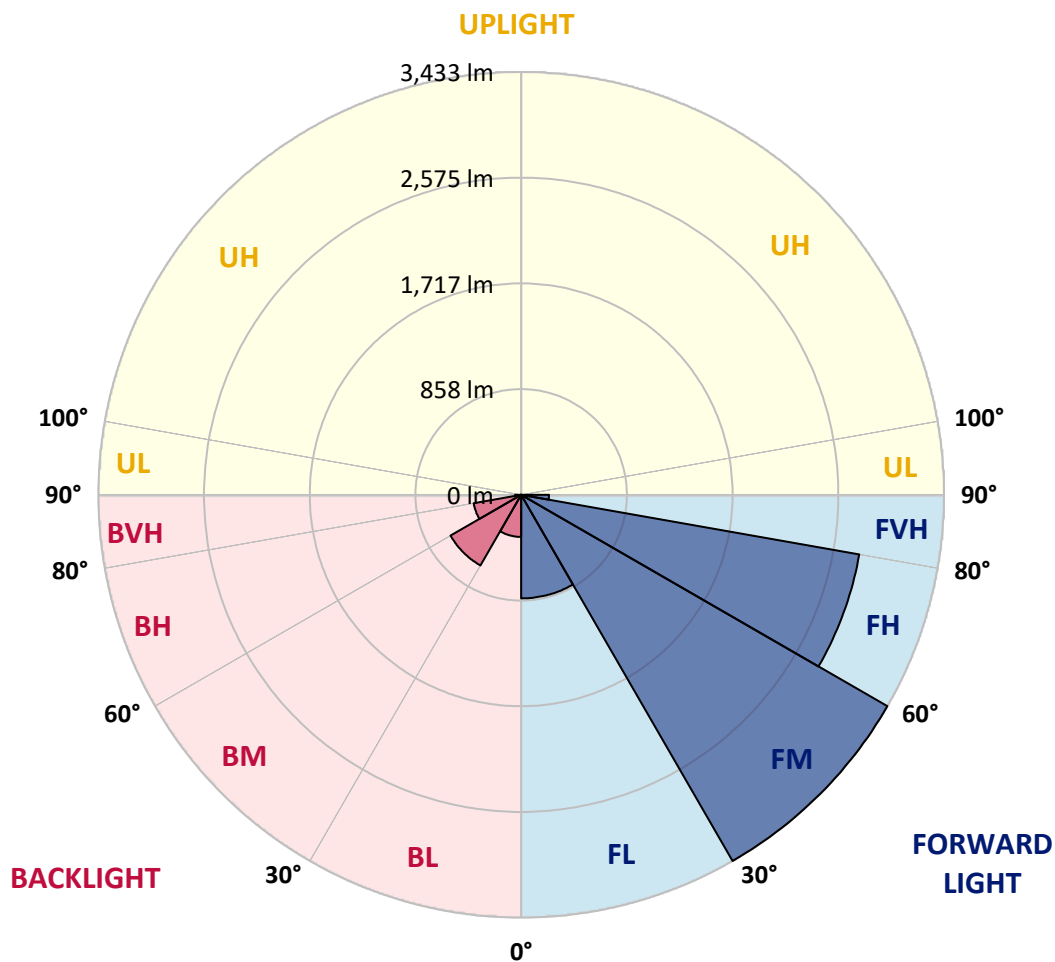
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	841.1	9.6			
FM	(30°-60°)	3433.4	39.3			
FH	(60°-80°)	2787.6	31.9			G2/5000
FVH	(80°-90°)	226.6	2.6			G3/500
BL	(0°-30°)	341.9	3.9	B1/500		
BM	(30°-60°)	662.3	7.6	B1/1000		
BH	(60°-80°)	391.8	4.5	B1/500		G1/500
BVH	(80°-90°)	49.3	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8
2.5°	3066.0	3115.0	3210.6	3282.1	3369.0	3389.2	3417.0	3389.6	3341.2	3276.8	3255.7
5°	2883.1	2987.8	3219.7	3423.7	3605.2	3689.7	3713.2	3643.6	3503.0	3318.1	3205.3
7.5°	2589.8	2738.6	3052.6	3353.2	3620.6	3778.5	3774.7	3612.9	3354.1	3053.1	2872.1
10°	2336.7	2506.7	2866.8	3202.9	3486.6	3639.8	3580.7	3373.8	3065.1	2718.4	2522.1
12.5°	2195.1	2361.7	2727.1	3064.6	3301.8	3354.6	3309.5	3106.9	2815.9	2465.4	2293.5
15°	2170.6	2353.5	2671.4	2946.0	3079.0	3032.9	2979.1	2888.4	2682.9	2383.8	2204.7
17.5°	2276.7	2478.4	2735.2	2863.4	2840.9	2760.7	2745.3	2755.4	2706.0	2474.5	2268.1
20°	2480.3	2722.3	2887.4	2824.5	2659.9	2549.4	2553.3	2707.4	2853.8	2704.5	2468.8
22.5°	2766.0	3042.0	3106.9	2845.2	2583.5	2452.5	2484.1	2733.8	3089.6	3040.6	2739.6
25°	3135.7	3387.2	3340.7	2920.1	2591.2	2464.5	2489.9	2825.0	3368.0	3376.7	3074.7
27.5°	3493.8	3727.2	3537.0	3019.5	2622.9	2492.8	2526.4	2968.6	3634.0	3741.6	3457.8
30°	3773.3	3935.5	3614.8	3110.2	2685.3	2548.0	2589.8	3104.9	3755.0	3987.9	3752.6
32.5°	4004.7	4121.3	3738.7	3222.6	2800.1	2634.9	2708.4	3270.6	3929.3	4222.2	4041.2
35°	4300.4	4333.6	3892.8	3347.9	2977.2	2786.1	2877.4	3432.9	4095.4	4458.9	4325.4
37.5°	4647.1	4604.3	4038.3	3519.3	3206.2	3022.8	3098.2	3611.0	4232.3	4727.3	4615.9
40°	4989.9	4887.1	4220.7	3785.3	3540.4	3301.8	3391.1	3801.1	4360.0	4996.1	4899.6
42.5°	5281.3	5129.1	4400.8	4077.7	3851.5	3609.5	3716.1	3992.7	4481.9	5225.6	5145.9
45°	5496.9	5307.7	4572.2	4358.5	4280.3	4018.6	4069.0	4212.1	4614.0	5417.2	5348.5
47.5°	5689.4	5487.3	4766.1	4641.8	4655.2	4550.6	4469.4	4467.5	4769.5	5573.7	5540.1
50°	5947.2	5736.5	4974.5	4933.7	5217.9	5148.3	4969.2	4765.7	4966.4	5751.4	5747.5
52.5°	6302.5	6131.1	5229.0	5248.2	5743.2	5788.8	5567.0	5123.8	5274.6	6077.4	6054.3
55°	6722.6	6622.8	5575.6	5609.7	6387.5	6420.2	6199.8	5571.8	5727.8	6549.3	6485.5
57.5°	7050.6	7029.4	5955.9	6043.7	6868.6	7015.5	6812.9	6090.3	6238.7	6946.9	6786.5
60°	7181.2	7283.4	6360.6	6481.6	7313.7	7476.4	7298.8	6546.0	6691.4	7111.5	6765.8
62.5°	7110.6	7339.1	6791.8	6781.7	7413.0	7588.3	7463.5	6799.5	7027.0	6941.6	6423.5
65°	6784.6	7138.9	7041.9	6704.4	7073.1	7087.5	7047.2	6686.1	7106.3	6404.3	5761.9
67.5°	6074.5	6584.4	6712.6	6041.8	6156.1	6062.5	5994.8	6065.8	6693.3	5599.2	4842.5
70°	4947.6	5714.9	5776.3	4832.4	4780.6	4717.7	4582.7	4973.1	5878.6	4589.0	3842.4
72.5°	3637.9	4444.5	4633.2	3544.2	3304.2	3317.1	3210.6	3747.8	4779.6	3408.8	2868.7
75°	2488.9	3218.2	3624.9	2473.1	2185.0	2190.3	2176.9	2655.5	3806.9	2371.3	2146.6
77.5°	1818.2	2299.3	2733.8	1662.7	1614.2	1584.4	1577.2	1858.1	2918.6	1721.7	1667.0
80°	1459.1	1698.7	1836.5	1152.3	1239.2	1236.8	1196.9	1277.6	1906.1	1259.4	1246.9
82.5°	1012.1	1305.4	1487.9	903.1	836.4	822.4	832.0	951.6	1347.2	860.9	818.6
85°	533.9	867.1	1473.5	800.4	496.4	396.1	492.6	779.2	1167.2	456.1	399.5
87.5°	68.2	250.6	975.6	319.3	195.9	105.6	233.8	438.8	749.5	93.1	81.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8
2.5°	3201.4	3137.6	3054.0	2976.7	2896.6	2816.9	2712.7	2647.4	2602.2	2593.6	2574.4
5°	3123.7	2911.4	2751.1	2612.3	2486.5	2308.9	2210.5	2128.9	2085.2	2080.8	2070.3
7.5°	2765.0	2472.1	2255.6	2059.2	1881.1	1737.6	1579.1	1505.2	1474.9	1482.1	1489.3
10°	2392.0	2064.5	1815.8	1615.1	1458.1	1337.1	1209.9	1124.0	1064.4	1052.4	1050.0
12.5°	2119.2	1760.1	1518.6	1377.0	1255.5	1141.7	1006.8	905.5	828.2	801.8	784.0
15°	2004.0	1611.3	1358.3	1205.6	1071.6	927.1	801.8	695.7	624.6	601.6	588.6
17.5°	2028.5	1570.0	1247.8	1052.4	881.0	730.3	572.3	481.6	438.8	427.8	427.8
20°	2157.2	1562.3	1156.6	911.3	697.6	522.9	393.2	341.4	327.4	326.0	329.8
22.5°	2337.7	1589.2	1088.4	788.8	542.1	381.7	306.3	287.1	280.9	282.3	286.6
25°	2606.6	1679.9	1039.0	679.8	425.4	312.6	273.2	261.7	258.8	262.6	267.9
27.5°	2925.4	1770.7	1008.3	597.7	359.1	285.7	259.7	247.7	249.7	254.5	259.3
30°	3205.3	1845.1	959.8	539.2	338.5	287.1	259.7	243.4	241.5	242.5	243.9
32.5°	3456.4	1895.5	903.1	483.5	291.9	254.9	242.5	240.1	229.5	225.7	226.1
35°	3672.9	1895.5	869.0	450.8	261.7	226.1	206.0	194.0	188.7	189.2	194.4
37.5°	3881.8	1857.6	852.2	432.6	245.3	215.1	197.3	186.8	179.6	178.1	179.1
40°	4066.1	1802.4	833.0	424.9	232.9	208.4	191.6	182.9	175.2	172.8	173.3
42.5°	4214.0	1757.7	811.9	414.8	225.2	203.6	187.7	180.0	171.4	169.0	168.5
45°	4373.9	1742.8	784.0	394.7	229.0	204.1	186.8	178.6	170.0	167.1	166.1
47.5°	4584.7	1789.4	755.2	370.7	237.2	206.5	188.2	178.6	169.5	167.1	166.1
50°	4850.2	1898.9	718.7	335.6	229.0	213.2	187.7	177.2	169.5	167.1	165.2
52.5°	5191.1	2046.8	670.7	295.3	224.2	229.5	186.8	174.3	167.1	163.7	160.4
55°	5605.4	2167.7	613.6	262.1	213.2	225.2	185.3	170.9	163.2	158.4	155.6
57.5°	5908.8	2211.4	540.1	240.5	197.8	218.0	183.4	166.6	158.4	154.6	150.8
60°	5848.8	2126.9	478.2	227.1	188.7	196.8	182.0	162.8	154.1	151.2	147.9
62.5°	5368.2	1906.1	438.3	220.9	182.9	179.6	183.4	158.9	150.3	147.4	146.4
65°	4647.6	1580.1	422.5	219.4	178.1	169.5	170.4	154.6	146.0	143.6	142.6
67.5°	3833.8	1275.2	408.6	224.2	171.9	162.3	157.5	148.8	141.6	139.2	137.3
70°	3023.3	1060.6	402.3	221.3	164.2	155.1	149.8	142.6	136.4	134.0	132.5
72.5°	2434.7	895.9	399.0	218.5	154.1	145.5	140.7	134.4	127.7	126.8	125.3
75°	2060.2	704.3	365.4	209.3	142.6	134.0	130.6	124.8	118.1	118.1	117.1
77.5°	1589.2	509.4	303.9	185.3	130.6	121.0	118.1	113.8	106.1	107.5	107.1
80°	1173.9	332.2	237.7	153.6	115.7	106.6	105.1	100.8	92.7	94.6	94.6
82.5°	804.2	218.0	170.9	125.8	98.9	90.3	90.3	85.9	76.8	77.8	80.7
85°	403.8	149.8	127.7	97.5	76.8	72.5	72.5	69.1	60.0	60.5	64.3
87.5°	122.9	90.3	84.5	69.6	55.2	54.3	51.9	49.5	43.7	43.2	45.6
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8
2.5°	2545.1	2517.7	2484.6	2411.6	2387.2	2385.7	2407.8	2384.8	2428.9	2410.2	2430.8
5°	2052.5	2025.6	1988.7	1895.5	1838.9	1800.4	1782.2	1728.4	1767.3	1739.0	1762.5
7.5°	1509.5	1515.7	1491.3	1436.5	1313.1	1251.2	1214.7	1182.1	1210.4	1207.5	1252.6
10°	1061.1	1077.9	1060.6	1005.4	905.5	871.4	878.1	891.1	928.1	947.3	1016.9
12.5°	763.9	762.9	751.9	702.4	636.6	640.5	667.8	690.4	724.5	744.7	815.7
15°	570.4	561.7	556.9	516.6	479.2	487.3	500.8	503.2	524.8	536.8	594.4
17.5°	431.1	435.5	440.7	411.9	383.6	378.3	367.8	354.8	361.1	363.5	392.3
20°	342.3	359.6	372.6	352.4	323.6	308.2	294.8	286.2	286.2	285.7	293.8
22.5°	299.1	311.6	325.5	311.6	285.7	272.2	264.5	257.8	256.9	256.9	264.5
25°	275.6	284.7	298.2	288.6	269.3	259.3	252.1	243.4	240.1	239.1	244.4
27.5°	264.1	267.9	274.6	266.0	249.7	244.9	242.9	235.3	230.9	228.5	233.8
30°	244.4	243.4	243.9	235.3	222.3	221.8	225.2	226.6	225.2	224.7	232.9
32.5°	226.1	224.2	223.7	216.1	204.1	201.2	204.1	206.9	210.3	215.1	224.7
35°	203.1	207.9	210.8	204.1	189.6	181.0	177.6	172.4	169.5	169.5	180.5
37.5°	184.8	195.9	200.2	194.0	178.1	166.1	160.4	159.4	159.9	161.8	172.4
40°	178.6	186.8	190.6	184.4	168.5	157.5	154.1	153.2	154.1	157.0	167.6
42.5°	174.8	180.5	180.0	172.4	159.4	151.7	149.8	148.8	149.8	152.7	164.2
45°	171.4	175.2	171.4	162.3	150.3	146.4	146.9	146.4	147.4	150.3	161.3
47.5°	168.5	170.0	165.2	156.0	143.6	142.6	144.5	146.0	146.9	149.3	160.8
50°	164.2	164.2	159.9	150.3	137.8	138.3	140.7	144.0	144.5	147.4	156.5
52.5°	158.9	158.4	155.6	146.4	133.0	134.4	134.4	138.3	139.2	142.6	152.2
55°	154.6	153.6	152.2	143.6	128.7	131.1	129.6	131.1	133.5	136.8	147.4
57.5°	150.8	148.8	148.8	141.2	125.3	126.3	122.9	124.8	127.7	130.6	141.6
60°	146.9	145.0	146.0	137.8	120.0	119.1	117.6	121.5	122.4	125.8	136.8
62.5°	142.6	141.2	141.6	134.0	116.2	113.8	113.8	117.1	117.6	122.4	133.0
65°	139.2	137.3	136.8	130.1	111.9	109.0	110.4	111.9	112.8	117.6	127.7
67.5°	135.9	132.0	132.0	126.8	107.1	104.2	107.1	106.6	108.0	112.3	120.5
70°	131.6	126.3	126.8	124.4	102.3	98.9	101.3	100.8	101.8	104.7	112.8
72.5°	124.8	120.5	121.5	120.5	97.5	92.7	93.6	93.6	93.6	96.0	104.7
75°	116.2	112.8	115.7	118.1	91.7	85.0	85.9	85.9	84.5	85.9	96.5
77.5°	105.6	103.7	113.3	109.9	85.0	76.8	76.8	75.9	73.0	74.9	86.4
80°	94.1	92.7	104.7	92.2	77.3	66.7	65.8	63.4	60.5	61.9	73.5
82.5°	82.1	80.7	87.9	70.6	66.7	55.2	52.8	48.5	45.6	47.1	57.6
85°	67.2	67.2	67.7	53.3	50.9	42.3	39.4	33.6	30.2	31.2	41.3
87.5°	48.0	49.5	45.6	36.5	30.2	23.5	21.6	18.2	15.4	17.8	21.6
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8
2.5°	2536.5	2589.3	2649.3	2726.1	2791.9	2899.9	3003.6	3066.0
5°	1896.5	1984.3	2093.8	2234.5	2365.5	2562.4	2757.8	2883.1
7.5°	1357.3	1451.4	1569.5	1745.2	1930.6	2181.7	2440.0	2589.8
10°	1123.0	1219.5	1318.9	1437.5	1589.2	1862.4	2167.7	2336.7
12.5°	929.0	1032.3	1139.3	1264.2	1404.8	1648.7	2000.7	2195.1
15°	711.1	826.3	952.6	1110.5	1286.7	1568.6	1959.4	2170.6
17.5°	487.3	616.0	771.1	966.0	1181.6	1542.6	2033.3	2276.7
20°	335.6	429.2	594.9	823.4	1082.7	1539.3	2175.4	2480.3
22.5°	280.9	322.6	443.6	692.3	1008.3	1580.6	2395.8	2766.0
25°	259.7	284.7	354.3	578.5	954.0	1675.6	2699.2	3135.7
27.5°	247.3	269.8	321.7	504.1	911.3	1786.0	2994.5	3493.8
30°	252.1	275.1	312.6	466.2	853.2	1878.2	3256.7	3773.3
32.5°	227.1	237.2	267.9	432.6	811.4	1955.5	3486.1	4004.7
35°	193.5	211.3	239.1	416.7	812.4	2007.4	3736.3	4300.4
37.5°	184.4	202.1	222.3	411.0	823.4	2062.6	4023.4	4647.1
40°	178.6	194.9	212.2	407.6	834.0	2113.0	4304.8	4989.9
42.5°	174.8	189.6	211.3	396.1	839.2	2158.1	4536.2	5281.3
45°	174.3	189.6	215.1	384.6	847.4	2206.6	4730.1	5496.9
47.5°	174.8	195.9	207.9	370.7	847.4	2287.8	4957.7	5689.4
50°	172.8	206.5	200.2	351.0	827.7	2441.4	5269.8	5947.2
52.5°	171.9	205.0	185.3	320.7	793.6	2685.3	5669.7	6302.5
55°	169.5	197.8	174.8	275.6	753.8	2951.3	6098.0	6722.6
57.5°	167.1	175.2	169.0	236.2	692.3	3138.5	6392.8	7050.6
60°	187.2	153.2	164.2	217.0	610.2	3189.9	6381.3	7181.2
62.5°	173.3	143.6	158.0	212.7	552.6	3045.9	6086.5	7110.6
65°	135.9	137.3	151.7	225.2	537.3	2664.2	5564.1	6784.6
67.5°	124.4	131.1	145.5	241.0	538.7	2133.2	4783.4	6074.5
70°	117.1	124.4	138.3	249.2	542.5	1590.2	3781.9	4947.6
72.5°	109.0	115.2	130.1	250.6	517.6	1155.2	2914.8	3637.9
75°	99.4	105.1	118.6	218.5	428.7	801.3	2229.7	2488.9
77.5°	88.3	92.7	104.2	168.5	318.3	512.8	1673.7	1818.2
80°	75.4	77.8	87.4	123.4	218.0	320.7	1324.2	1459.1
82.5°	60.5	61.5	67.7	92.7	141.6	206.0	886.8	1012.1
85°	42.7	42.7	46.6	67.2	96.5	130.6	481.6	533.9
87.5°	20.2	20.6	20.6	37.0	50.4	66.3	110.9	68.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)