

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: P298869

Luminaire Tested: **GAA-AF-03-LED-U-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-03-LED-U-SLL-8030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Left OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12989.9 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

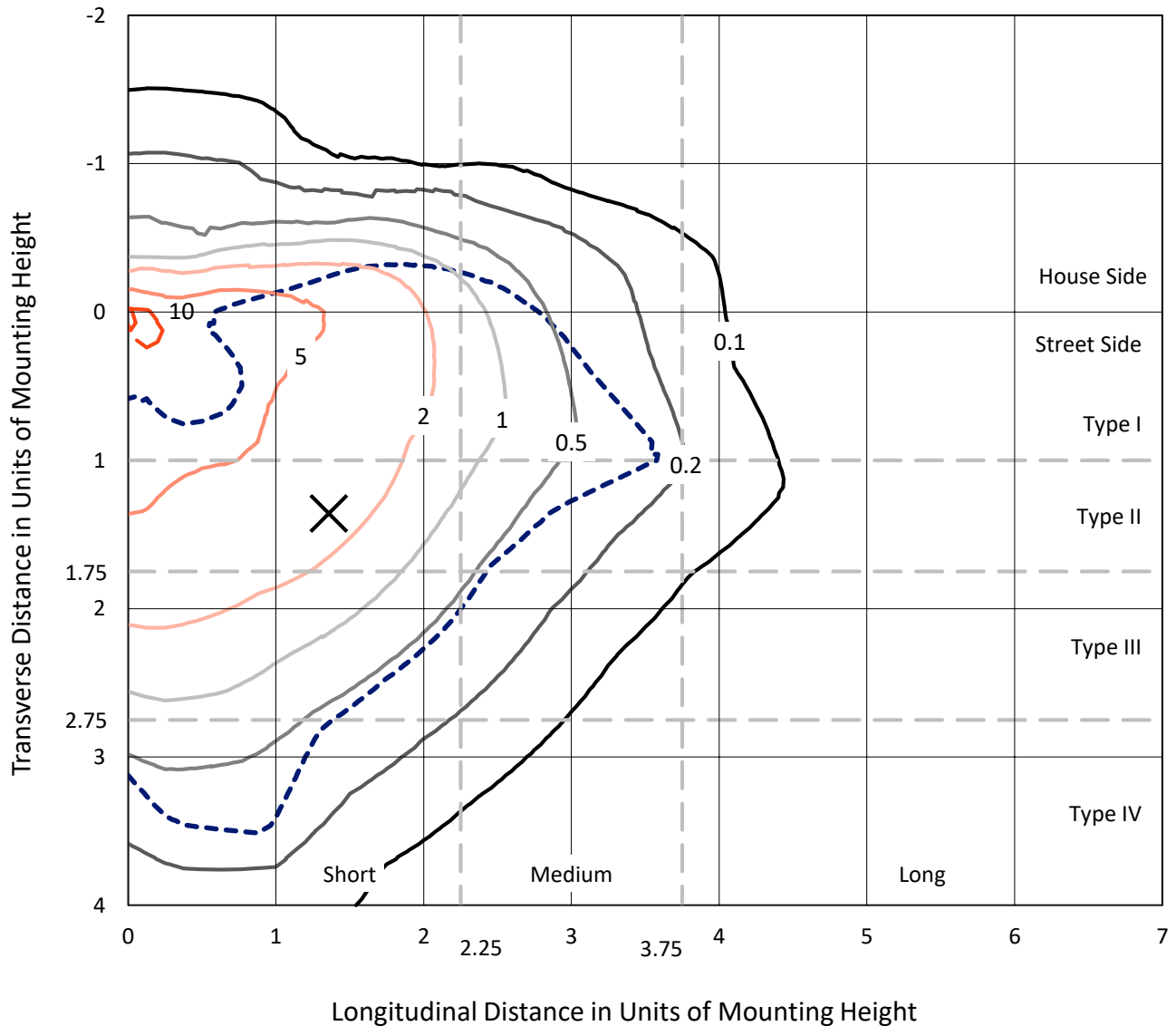
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

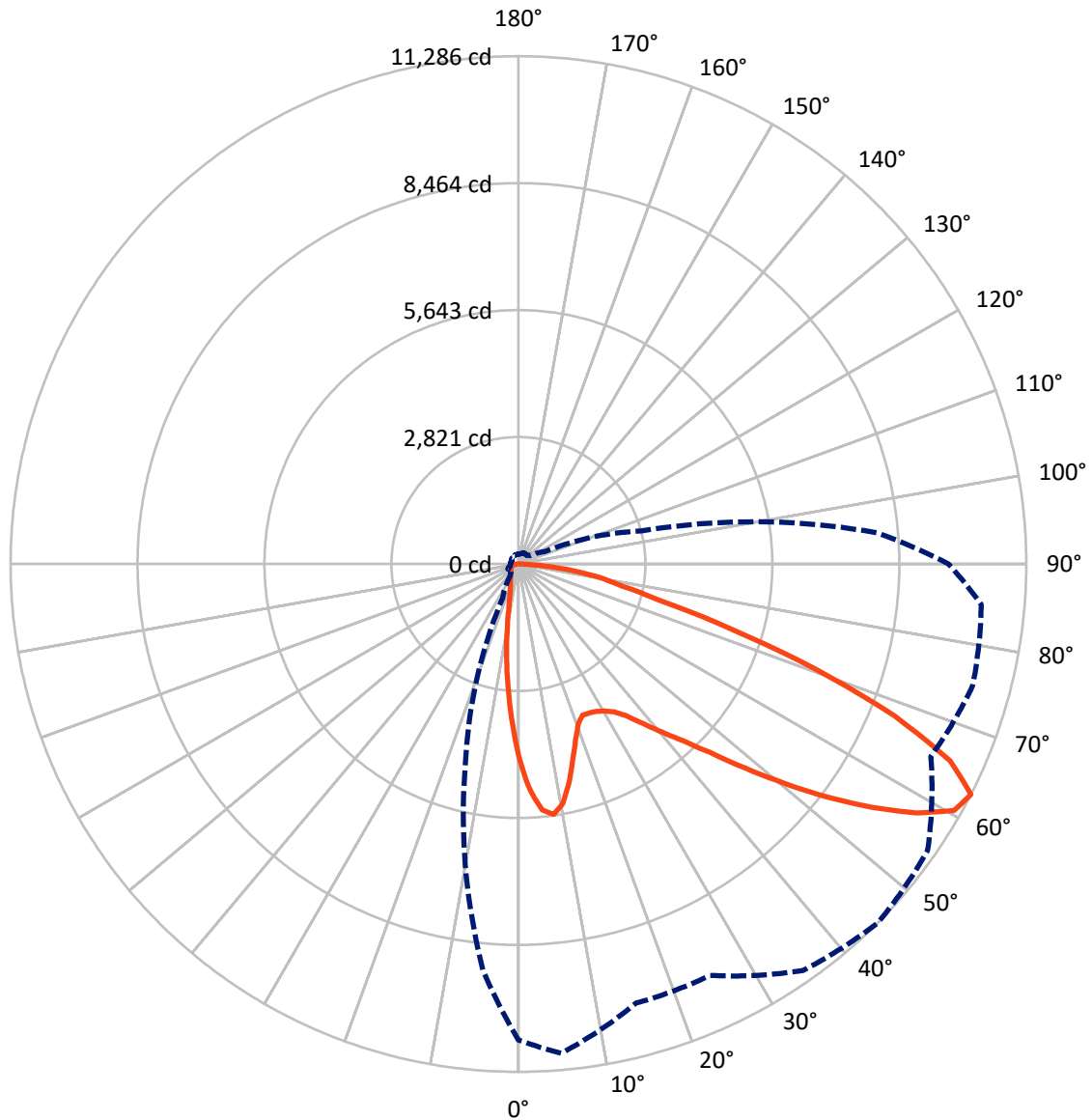


Based on 20 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - Non-Cutoff

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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	2149.6	0.0	2149.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10840.2	0.0	10840.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	12989.9	0.0	12989.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.5	2.5
10°-20°	585.8	4.5
20°-30°	854.2	6.6
30°-40°	1315.5	10.1
40°-50°	1936.1	14.9
50°-60°	2839.8	21.9
60°-70°	3174.5	24.4
70°-80°	1554.2	12.0
80°-90°	410.3	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°	12989.9	100.0
0°-180°	12989.9	100.0



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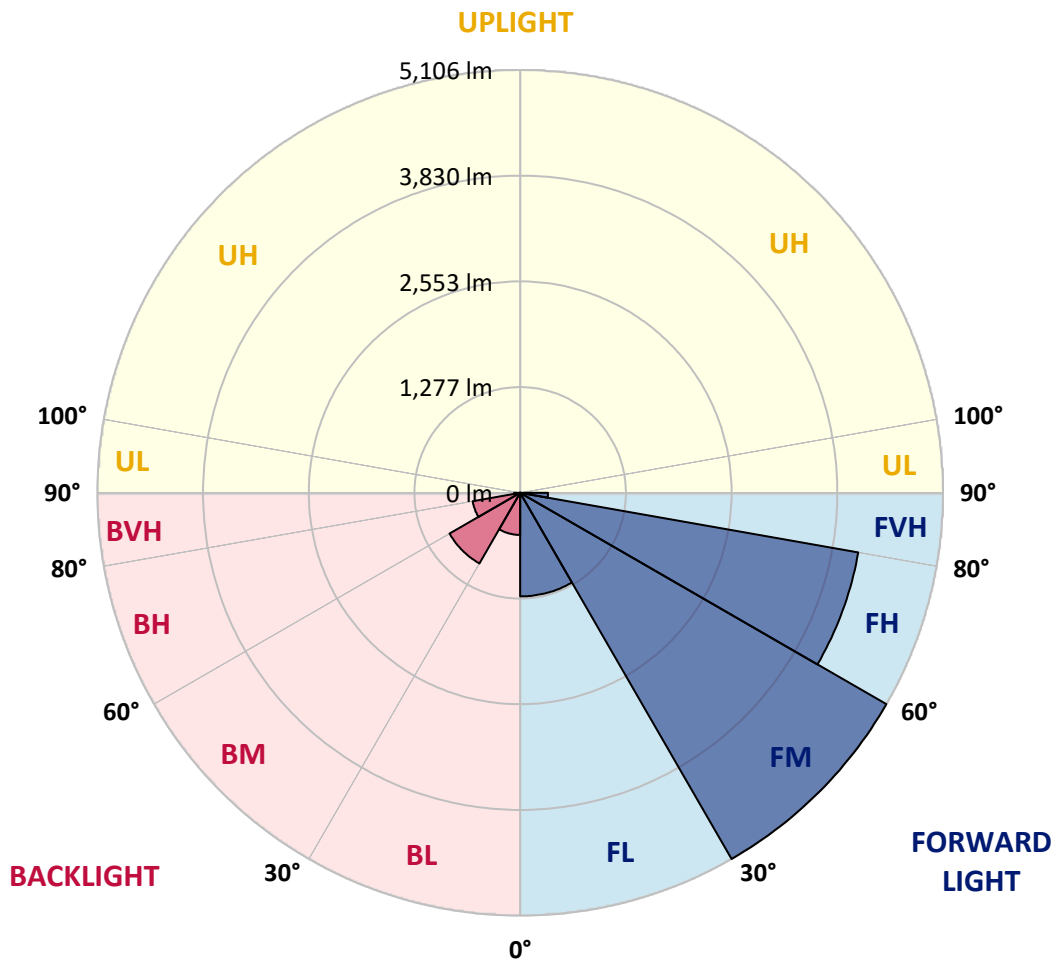
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1250.9	9.6			
FM	(30°-60°)	5106.4	39.3			
FH	(60°-80°)	4145.9	31.9			G2/5000
FVH	(80°-90°)	337.0	2.6			G3/500
BL	(0°-30°)	508.6	3.9	B2/1000		
BM	(30°-60°)	985.0	7.6	B1/1000		
BH	(60°-80°)	582.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	73.4	0.6			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8
2.5°	4559.9	4632.9	4775.0	4881.2	5010.8	5040.7	5082.2	5041.4	4969.3	4873.5	4842.2
5°	4288.0	4443.8	4788.5	5092.1	5361.9	5487.6	5522.8	5419.0	5209.9	4935.0	4767.1
7.5°	3851.7	4073.1	4540.0	4987.1	5384.7	5619.7	5613.9	5373.3	4988.5	4540.7	4271.5
10°	3475.3	3728.2	4263.9	4763.6	5185.5	5413.4	5325.3	5017.9	4558.5	4043.0	3751.1
12.5°	3264.8	3512.6	4055.9	4557.8	4910.6	4989.2	4922.0	4620.6	4187.8	3666.7	3411.1
15°	3228.2	3500.5	3973.2	4381.6	4579.4	4511.0	4430.8	4295.9	3990.1	3545.3	3278.9
17.5°	3386.2	3686.0	4068.2	4258.8	4225.2	4105.8	4083.1	4098.1	4024.6	3680.2	3373.3
20°	3689.0	4048.8	4294.5	4201.1	3956.0	3791.7	3797.5	4026.7	4244.4	4022.3	3671.6
22.5°	4113.7	4524.4	4620.6	4231.7	3842.4	3647.5	3694.8	4066.1	4595.1	4522.3	4074.5
25°	4663.5	5037.9	4968.6	4342.9	3853.8	3665.3	3703.1	4201.7	5009.1	5022.1	4573.1
27.5°	5196.2	5543.5	5260.4	4490.8	3901.1	3707.5	3757.6	4415.0	5404.8	5564.8	5142.9
30°	5611.8	5853.4	5376.1	4625.7	3993.8	3789.6	3851.7	4617.8	5584.9	5931.0	5581.2
32.5°	5956.1	6129.5	5560.4	4792.9	4164.4	3918.7	4028.1	4864.3	5844.1	6279.7	6010.3
35°	6395.8	6445.2	5789.6	4979.2	4428.0	4143.8	4279.4	5105.6	6091.2	6631.6	6433.1
37.5°	6911.6	6848.1	6005.9	5234.2	4768.7	4495.7	4607.9	5370.5	6294.5	7030.7	6865.0
40°	7421.3	7268.3	6277.6	5629.7	5265.7	4910.6	5043.4	5653.3	6484.6	7430.6	7287.1
42.5°	7854.8	7628.3	6545.1	6064.6	5728.2	5368.4	5527.0	5938.2	6665.9	7771.8	7653.4
45°	8175.4	7894.0	6800.1	6482.3	6365.9	5976.7	6051.8	6264.4	6862.2	8056.9	7954.7
47.5°	8461.7	8161.0	7088.4	6903.7	6923.6	6767.9	6647.1	6644.3	7093.8	8289.7	8239.6
50°	8845.1	8531.7	7398.4	7337.6	7760.5	7656.8	7390.5	7087.8	7386.3	8553.9	8548.1
52.5°	9373.6	9118.9	7776.9	7805.4	8541.9	8609.6	8279.5	7620.7	7844.6	9038.6	9004.6
55°	9998.6	9849.7	8292.7	8343.2	9499.9	9548.6	9220.6	8286.7	8518.9	9740.8	9645.8
57.5°	10486.1	10454.8	8858.1	8988.8	10215.5	10434.1	10132.8	9058.1	9278.6	10331.9	10093.4
60°	10680.3	10832.4	9460.1	9640.0	10877.6	11119.4	10855.3	9735.5	9952.0	10576.9	10062.8
62.5°	10575.5	10915.1	10101.3	10086.2	11025.2	11285.8	11100.1	10112.6	10451.3	10324.0	9553.7
65°	10090.6	10617.5	10473.3	9971.2	10519.7	10541.0	10481.0	9944.1	10569.0	9525.0	8569.5
67.5°	9034.2	9792.7	9983.3	8986.0	9155.7	9016.6	8915.8	9021.5	9954.8	8327.5	7202.0
70°	7358.5	8499.7	8590.8	7187.2	7110.0	7016.4	6815.8	7396.3	8743.1	6825.1	5714.8
72.5°	5410.6	6610.2	6890.7	5271.3	4914.3	4933.3	4775.0	5573.8	7108.6	5069.9	4266.7
75°	3701.7	4786.4	5391.4	3678.1	3249.9	3257.6	3237.4	3949.5	5661.9	3526.7	3192.7
77.5°	2704.3	3419.6	4066.1	2472.7	2400.6	2356.3	2345.7	2763.4	4340.8	2560.8	2479.2
80°	2170.0	2526.5	2731.2	1713.8	1842.9	1839.4	1780.1	1900.1	2834.8	1873.0	1854.2
82.5°	1505.4	1941.6	2212.8	1343.1	1243.9	1223.0	1237.6	1415.2	2003.7	1280.3	1217.5
85°	794.2	1289.5	2191.5	1190.3	738.3	589.0	732.7	1158.8	1736.0	678.5	593.9
87.5°	101.5	372.7	1450.9	475.0	291.4	156.9	347.9	652.5	1114.8	138.4	120.8
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°	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8
2.5°	4761.6	4666.5	4542.3	4427.1	4307.9	4189.2	4034.4	3937.3	3870.3	3857.3	3829.0
5°	4645.9	4330.2	4091.6	3885.3	3698.3	3433.8	3287.5	3166.0	3101.1	3094.9	3079.1
7.5°	4112.3	3676.7	3354.7	3062.6	2797.7	2584.2	2348.4	2238.8	2193.6	2204.3	2214.9
10°	3557.3	3070.5	2700.6	2402.0	2168.6	1988.7	1799.5	1671.8	1583.0	1565.2	1561.7
12.5°	3151.9	2617.8	2258.7	2047.8	1867.4	1698.0	1497.5	1346.6	1231.8	1192.4	1166.2
15°	2980.4	2396.4	2020.2	1793.0	1593.7	1378.8	1192.4	1034.6	929.1	894.8	875.5
17.5°	3017.0	2335.0	1855.9	1565.2	1310.4	1086.0	851.2	716.1	652.5	636.3	636.3
20°	3208.5	2323.6	1720.0	1355.4	1037.3	777.5	584.9	507.7	487.0	484.9	490.5
22.5°	3476.9	2363.7	1618.9	1173.4	806.2	567.7	455.5	427.0	417.7	420.0	426.3
25°	3876.8	2498.7	1545.5	1011.1	632.6	464.8	406.1	389.2	384.8	390.6	398.5
27.5°	4350.8	2633.6	1499.6	889.0	534.1	424.9	386.2	368.6	371.4	378.5	385.5
30°	4767.1	2744.4	1427.5	802.1	503.5	427.0	386.2	362.1	359.3	360.7	362.8
32.5°	5140.8	2819.2	1343.1	719.1	434.2	379.2	360.7	357.2	341.2	335.4	336.4
35°	5462.8	2819.2	1292.6	670.6	389.2	336.4	306.4	288.6	280.5	281.2	289.3
37.5°	5773.4	2762.7	1267.5	643.3	364.9	319.9	293.5	277.7	267.0	265.0	266.3
40°	6047.4	2680.6	1239.0	631.9	346.3	309.9	285.1	271.9	260.6	257.1	257.8
42.5°	6267.4	2614.1	1207.5	617.1	334.7	302.7	279.1	267.7	255.0	251.3	250.6
45°	6505.2	2592.1	1166.2	586.9	340.5	303.4	277.7	265.7	252.7	248.5	247.1
47.5°	6818.6	2661.4	1123.3	551.2	352.8	307.1	279.8	265.7	252.0	248.5	247.1
50°	7213.4	2824.1	1068.9	499.1	340.5	317.1	279.1	263.3	252.0	248.5	245.7
52.5°	7720.6	3044.1	997.7	439.3	333.3	341.2	277.7	259.2	248.5	243.6	238.5
55°	8336.7	3224.0	912.4	389.9	317.1	334.7	275.6	254.3	242.9	235.7	231.3
57.5°	8788.1	3288.9	803.4	357.9	294.2	324.1	272.6	247.8	235.7	230.0	224.4
60°	8698.8	3163.2	711.2	337.7	280.5	292.8	270.5	242.0	229.3	225.1	219.8
62.5°	7984.2	2834.8	651.8	328.5	271.9	267.0	272.6	236.4	223.7	219.1	217.7
65°	6912.3	2349.8	628.4	326.4	265.0	252.0	253.6	230.0	217.0	213.5	212.1
67.5°	5701.8	1896.7	607.8	333.3	255.7	241.3	234.4	221.4	210.5	207.0	204.2
70°	4496.4	1577.5	598.3	329.2	244.3	230.6	223.0	212.1	202.8	199.1	197.0
72.5°	3620.8	1332.4	593.2	324.8	229.3	216.3	209.1	199.8	189.9	188.5	186.4
75°	3064.3	1047.5	543.6	311.3	212.1	199.1	194.3	185.7	175.7	175.7	174.3
77.5°	2363.7	757.5	452.0	275.6	194.3	179.9	175.7	169.2	157.9	159.9	159.3
80°	1746.0	494.2	353.5	228.6	172.2	158.6	156.2	150.0	137.7	140.7	140.7
82.5°	1196.1	324.1	254.3	187.1	147.0	134.2	134.2	127.7	114.3	115.7	120.1
85°	600.6	223.0	189.9	144.9	114.3	107.8	107.8	102.9	89.2	89.9	95.7
87.5°	182.9	134.2	125.6	103.6	82.1	80.7	77.0	73.5	64.9	64.2	67.9
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°	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8
2.5°	3785.2	3744.4	3695.5	3586.8	3550.4	3548.0	3581.2	3546.7	3612.5	3584.7	3615.3
5°	3052.4	3012.8	2957.6	2819.2	2734.9	2677.6	2650.7	2570.7	2628.5	2586.3	2621.5
7.5°	2245.1	2254.3	2217.9	2136.6	1953.0	1861.0	1806.7	1758.0	1800.2	1795.8	1863.0
10°	1578.1	1603.0	1577.5	1495.4	1346.6	1296.0	1306.0	1325.2	1380.4	1408.7	1512.3
12.5°	1136.1	1134.7	1118.2	1044.8	946.9	952.5	993.3	1026.7	1077.4	1107.6	1213.1
15°	848.2	835.4	828.2	768.2	712.6	724.9	744.8	748.3	780.5	798.3	884.1
17.5°	641.2	647.7	655.3	612.7	570.5	562.6	547.1	527.6	537.1	540.6	583.2
20°	509.0	534.8	554.3	524.1	481.5	458.3	438.3	425.6	425.6	424.9	437.0
22.5°	444.8	463.4	484.2	463.4	424.9	404.7	393.4	383.4	382.0	382.0	393.4
25°	410.1	423.5	443.4	429.3	400.6	385.5	374.8	362.1	357.2	355.6	363.5
27.5°	392.7	398.5	408.4	395.5	371.4	364.2	361.4	350.0	343.3	339.8	347.9
30°	363.5	362.1	362.8	350.0	330.6	329.9	334.7	337.0	334.7	334.0	346.3
32.5°	336.4	333.3	332.6	321.3	303.4	299.3	303.4	307.8	312.7	319.9	334.0
35°	302.0	309.2	313.4	303.4	281.9	269.1	264.3	256.4	252.0	252.0	268.4
37.5°	274.9	291.4	297.9	288.6	265.0	247.1	238.5	237.1	237.8	240.6	256.4
40°	265.7	277.7	283.3	274.2	250.6	234.4	229.3	227.9	229.3	233.7	249.2
42.5°	259.9	268.4	267.7	256.4	237.1	225.8	223.0	221.4	223.0	227.2	244.3
45°	255.0	260.6	255.0	241.3	223.7	217.7	218.4	217.7	219.1	223.7	239.9
47.5°	250.6	252.7	245.7	232.0	213.5	212.1	214.9	217.0	218.4	222.3	239.2
50°	244.3	244.3	237.8	223.7	204.9	205.6	209.1	214.2	214.9	219.1	233.0
52.5°	236.4	235.7	231.3	217.7	197.7	199.8	199.8	205.6	207.0	212.1	226.5
55°	230.0	228.6	226.5	213.5	191.5	195.0	192.9	195.0	198.4	203.5	219.1
57.5°	224.4	221.4	221.4	209.8	186.4	187.8	182.9	185.7	189.9	194.3	210.5
60°	218.4	215.6	217.0	204.9	178.5	177.1	175.0	180.6	182.2	187.1	203.5
62.5°	212.1	209.8	210.5	199.1	172.9	169.2	169.2	174.3	175.0	182.2	197.7
65°	207.0	204.2	203.5	193.6	166.4	162.3	164.4	166.4	167.8	175.0	189.9
67.5°	202.1	196.3	196.3	188.5	159.3	154.8	159.3	158.6	160.9	167.1	179.2
70°	195.6	187.8	188.5	185.0	152.1	147.0	150.7	150.0	151.4	155.5	167.8
72.5°	185.7	179.2	180.6	179.2	144.9	137.7	139.1	139.1	139.1	142.8	155.5
75°	172.9	167.8	172.2	175.7	136.3	126.3	127.7	127.7	125.6	127.7	143.5
77.5°	156.9	154.2	168.5	163.7	126.3	114.3	114.3	112.9	108.7	111.5	128.4
80°	140.0	137.7	155.5	137.0	115.0	99.4	97.8	94.1	89.9	92.0	109.4
82.5°	122.2	120.1	130.7	105.0	99.4	82.1	78.6	72.1	67.9	70.0	85.5
85°	100.1	100.1	100.8	79.3	75.6	62.8	58.6	50.1	45.0	46.4	61.4
87.5°	71.4	73.5	67.9	54.2	45.0	35.0	32.2	27.1	22.7	26.4	32.2
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8	4388.8
2.5°	3772.4	3851.0	3940.3	4054.3	4152.4	4312.8	4467.2	4559.9
5°	2820.6	2951.4	3113.9	3323.4	3518.4	3810.9	4101.6	4288.0
7.5°	2018.6	2158.6	2334.3	2595.6	2871.4	3244.6	3629.0	3851.7
10°	1670.4	1813.9	1961.6	2138.0	2363.7	2769.9	3224.0	3475.3
12.5°	1381.8	1535.3	1694.5	1880.2	2089.3	2452.1	2975.5	3264.8
15°	1057.5	1228.8	1416.6	1651.6	1913.6	2332.9	2914.1	3228.2
17.5°	724.9	916.3	1146.8	1436.7	1757.3	2294.2	3024.2	3386.2
20°	499.1	638.4	884.8	1224.6	1610.4	2289.3	3235.3	3689.0
22.5°	417.7	479.8	659.7	1029.7	1499.6	2350.8	3563.3	4113.7
25°	386.2	423.5	526.9	860.5	1418.9	2492.2	4014.7	4663.5
27.5°	367.9	401.3	478.5	749.9	1355.4	2656.3	4453.7	5196.2
30°	374.8	409.1	464.8	693.3	1268.9	2793.3	4843.6	5611.8
32.5°	337.7	352.8	398.5	643.3	1206.8	2908.3	5184.8	5956.1
35°	287.9	314.1	355.6	619.9	1208.2	2985.5	5556.9	6395.8
37.5°	274.2	300.7	330.6	611.3	1224.6	3067.7	5983.9	6911.6
40°	265.7	290.0	315.7	606.4	1240.4	3142.6	6402.5	7421.3
42.5°	259.9	281.9	314.1	589.0	1248.3	3209.8	6746.5	7854.8
45°	259.2	281.9	319.9	571.9	1260.3	3281.9	7035.1	8175.4
47.5°	259.9	291.4	309.2	551.2	1260.3	3402.5	7373.6	8461.7
50°	257.1	307.1	297.9	522.0	1231.1	3631.0	7837.7	8845.1
52.5°	255.7	305.1	275.6	477.1	1180.4	3993.8	8432.5	9373.6
55°	252.0	294.2	259.9	410.1	1121.3	4389.5	9069.5	9998.6
57.5°	248.5	260.6	251.3	351.4	1029.7	4667.9	9507.8	10486.1
60°	278.4	227.9	244.3	322.7	907.5	4744.2	9490.9	10680.3
62.5°	257.8	213.5	235.1	316.4	822.0	4530.0	9052.3	10575.5
65°	202.1	204.2	225.8	334.7	799.0	3962.5	8275.3	10090.6
67.5°	185.0	195.0	216.3	358.6	801.4	3172.5	7114.4	9034.2
70°	174.3	185.0	205.6	370.7	806.9	2365.1	5624.6	7358.5
72.5°	162.3	171.5	193.6	372.7	769.6	1717.9	4335.3	5410.6
75°	147.7	156.2	176.4	324.8	637.7	1191.7	3316.2	3701.7
77.5°	131.4	137.7	154.8	250.6	473.6	762.6	2489.2	2704.3
80°	112.2	115.7	130.0	183.6	324.1	477.1	1969.4	2170.0
82.5°	89.9	91.3	100.8	137.7	210.5	306.4	1319.0	1505.4
85°	63.5	63.5	69.3	100.1	143.5	194.3	716.1	794.2
87.5°	29.9	30.6	30.6	54.9	74.9	98.8	165.0	101.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)