

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: P324168

Luminaire Tested: **GAN-SA4C-740-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324168
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-SA4C-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA 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: 21153 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

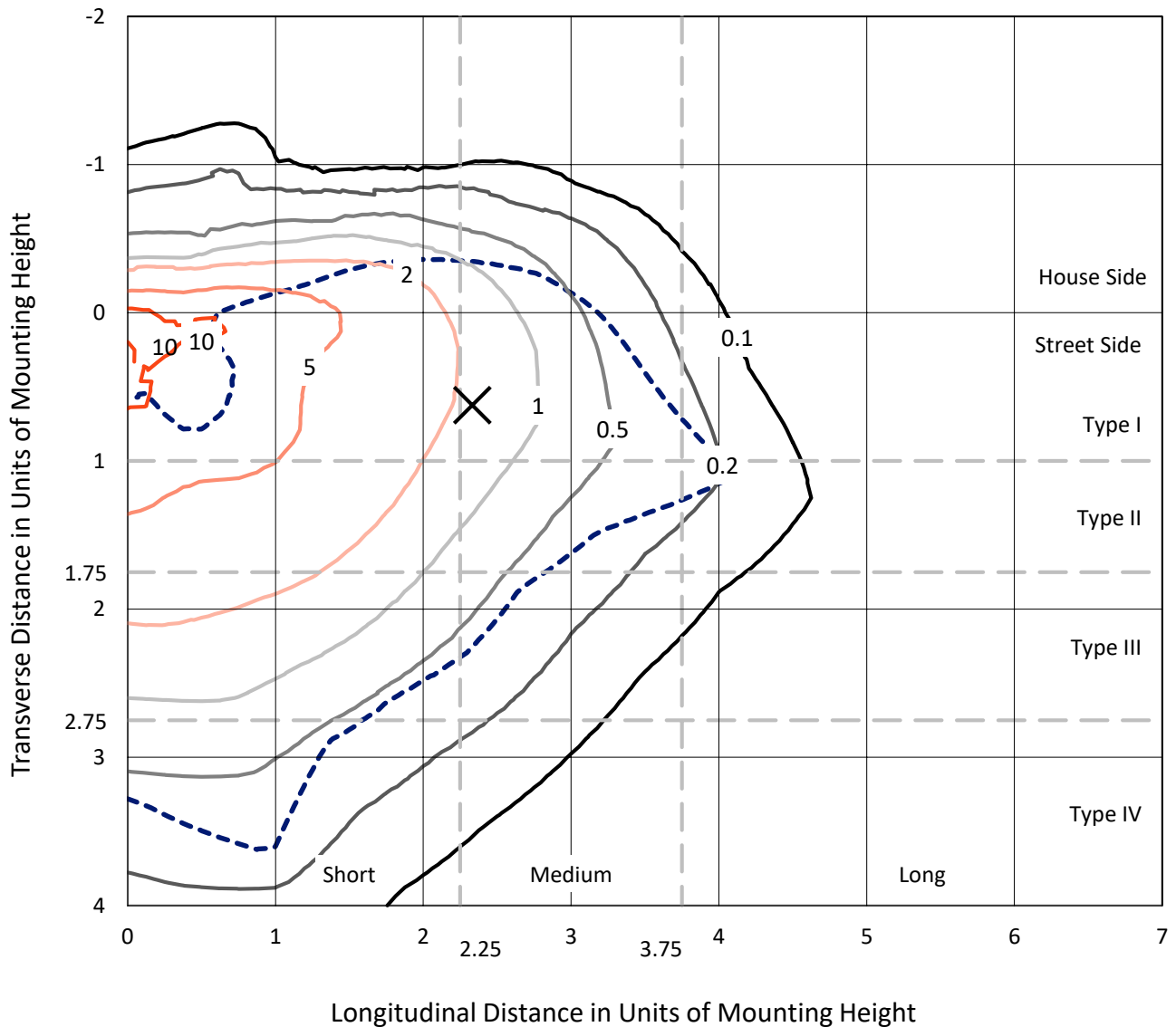
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

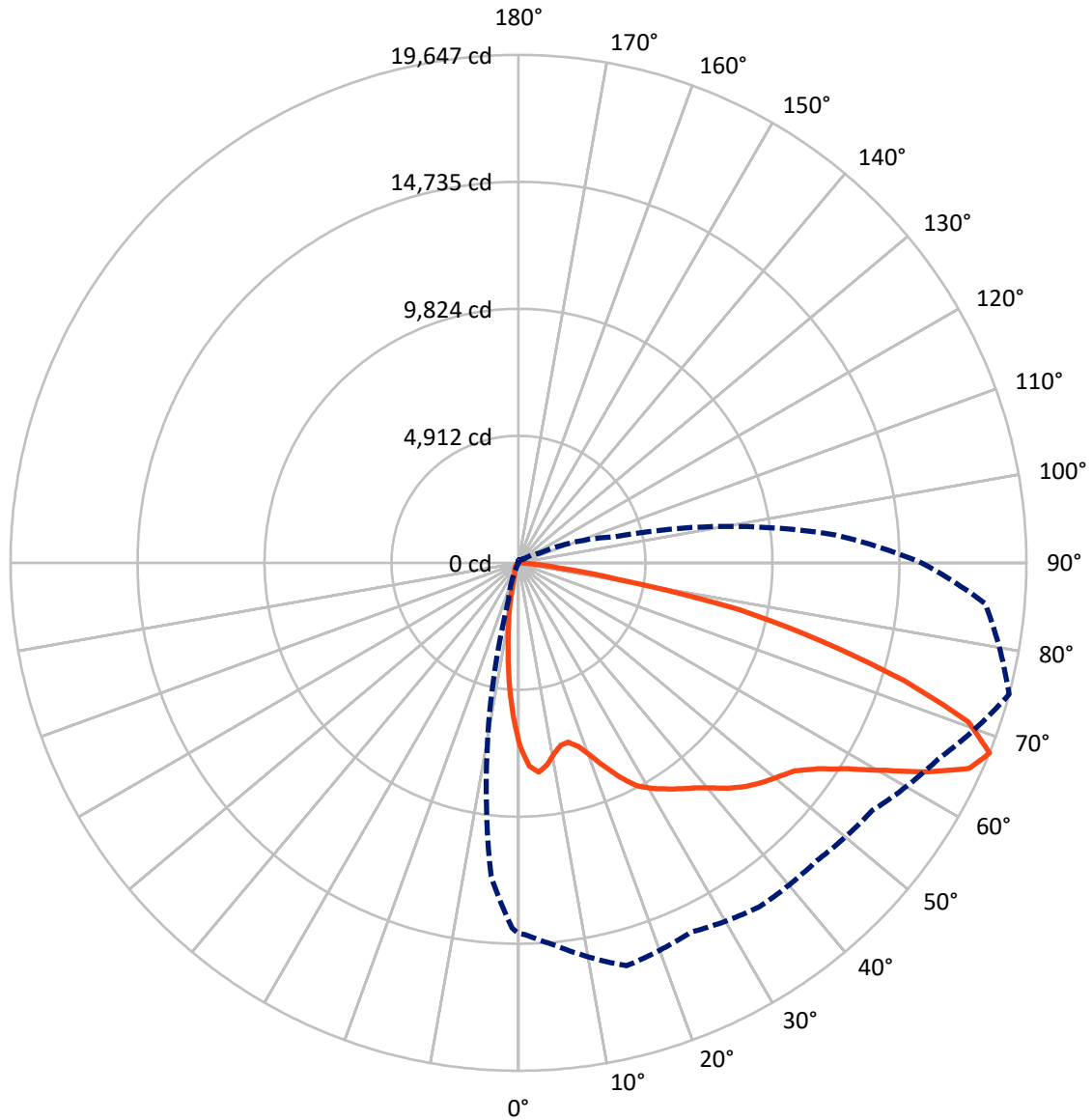
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3174.2	0.0	3174.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	17978.8	0.0	17978.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	21153.0	0.0	21153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.3	2.5
10°-20°	1059.9	5.0
20°-30°	1499.5	7.1
30°-40°	2204.7	10.4
40°-50°	3168.8	15.0
50°-60°	4460.9	21.1
60°-70°	5209.9	24.6
70°-80°	2657.9	12.6
80°-90°	353.1	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°	21153.0	100.0
0°-180°	21153.0	100.0

Coefficient of Utilization

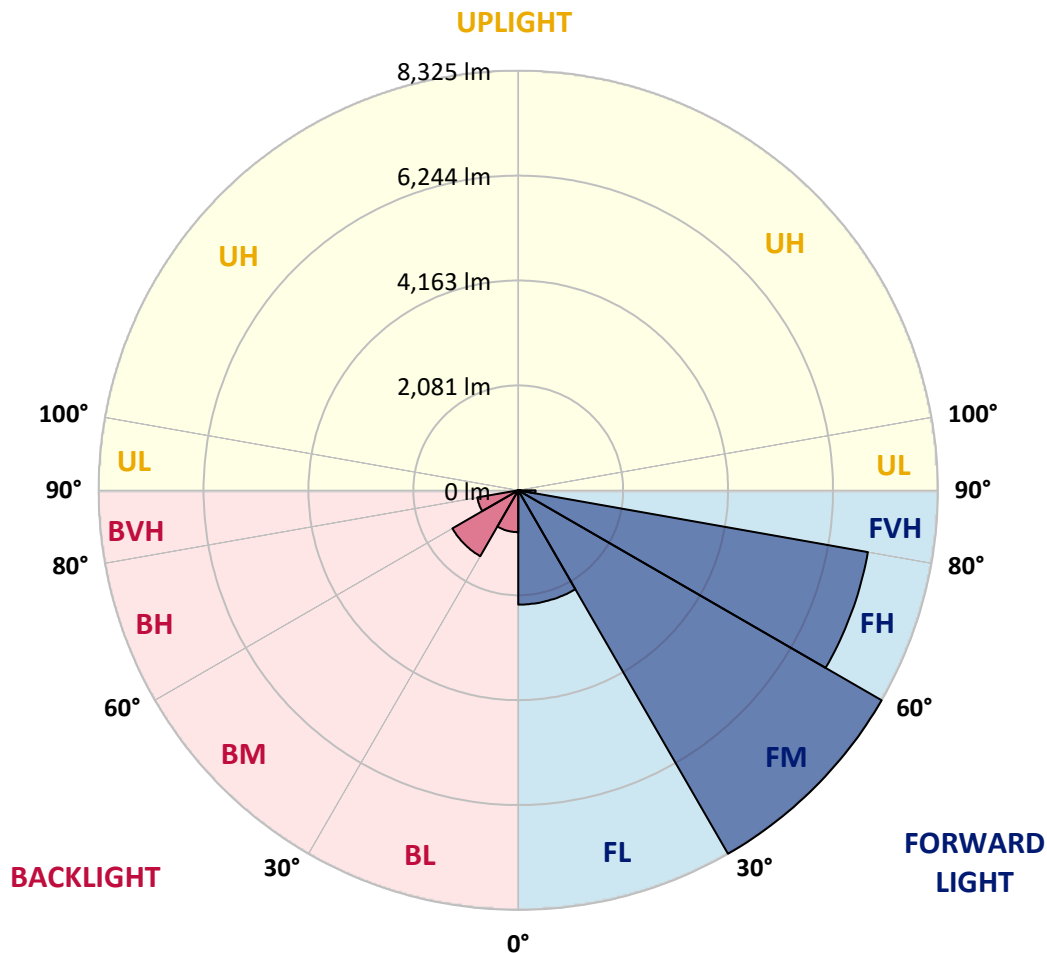


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2267.6	10.7			
FM (30°-60°)	8325.4	39.4			
FH (60°-80°)	7043.3	33.3			G3/7500
FVH (80°-90°)	342.4	1.6			G3/500
BL (0°-30°)	830.1	3.9	B2/1000		
BM (30°-60°)	1508.9	7.1	B2/2500		
BH (60°-80°)	824.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	10.7	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5
2.5°	7692.7	7704.7	7766.8	7911.1	8068.5	8080.5	8186.7	8077.5	8040.4	7864.0	7681.7
5°	7750.8	7796.9	8010.3	8434.2	8801.9	8920.2	9004.4	8789.9	8564.5	8133.6	7673.6
7.5°	7282.8	7360.0	7695.7	8491.3	9148.7	9439.2	9494.4	9158.7	8606.5	7897.1	7205.7
10°	6683.6	6771.8	7176.6	8154.6	9057.5	9555.5	9631.6	9191.7	8398.1	7514.3	6699.7
12.5°	6198.6	6301.8	6715.7	7775.9	8743.8	9295.0	9445.3	9080.5	8217.8	7242.8	6354.0
15°	5975.2	6093.4	6528.3	7531.4	8396.1	8830.0	8954.3	8796.9	8117.6	7199.7	6273.8
17.5°	6103.4	6231.7	6680.6	7552.4	8069.5	8254.8	8355.0	8419.2	8117.6	7459.2	6508.3
20°	6629.5	6767.8	7242.8	7765.8	7798.9	7729.8	7837.0	8062.4	8211.7	7952.2	7071.4
22.5°	7357.0	7519.3	8055.4	8131.6	7666.6	7405.1	7419.1	7772.8	8383.1	8577.5	7853.0
25°	8243.8	8442.2	8987.3	8676.7	7721.7	7211.7	7206.7	7534.4	8550.4	9203.8	8723.8
27.5°	9124.6	9343.1	9822.0	9342.0	7949.2	7176.6	7166.6	7462.2	8713.8	9760.9	9674.7
30°	9863.1	10075.5	10488.4	9824.0	8194.7	7258.8	7210.7	7539.4	8811.0	10122.6	10368.1
32.5°	10464.3	10634.7	10968.4	10155.7	8457.2	7418.1	7313.9	7745.8	8976.3	10428.3	11005.4
35°	11125.7	11305.1	11438.3	10471.4	8751.8	7647.6	7498.3	8073.5	9230.8	10738.9	11703.9
37.5°	11880.2	12058.6	12042.6	10759.9	9125.6	8027.4	7932.2	8592.5	9626.6	11046.5	12483.5
40°	12618.7	12801.1	12670.8	11075.6	9564.5	8653.6	8583.5	9372.1	10156.7	11440.3	13397.3
42.5°	13310.1	13507.5	13229.0	11374.2	10087.6	9443.3	9563.5	10376.2	10820.1	11925.3	14184.9
45°	13867.3	14068.7	13696.9	11664.8	10638.7	10401.2	10762.9	11488.4	11617.7	12335.2	14717.0
47.5°	14272.1	14462.5	14021.6	11955.4	11344.1	11572.6	12202.9	12654.8	12338.2	12690.9	15094.8
50°	14530.6	14678.9	14116.8	12319.1	12270.0	12939.4	13702.9	13923.4	13016.5	13011.5	15553.7
52.5°	14695.0	14762.1	14186.9	12698.9	13236.0	14427.4	15171.9	15241.1	13715.0	13364.2	16172.0
55°	15261.1	15315.2	14683.9	13158.8	14034.6	15731.1	16500.6	16436.5	14505.6	14054.7	16901.5
57.5°	16227.1	16284.2	15711.0	13820.2	14680.9	16536.7	17463.6	17578.8	15432.5	15024.6	17683.1
60°	16712.1	16818.3	16613.9	14657.9	15307.2	17051.8	18119.9	18487.7	16590.8	16303.2	18440.6
62.5°	16272.2	16426.5	16723.1	15586.8	15929.5	17335.3	18324.4	18813.4	17777.2	17793.3	18907.6
65°	15394.4	15517.6	16020.7	16095.8	16290.2	17300.3	17819.3	18358.4	18503.7	19162.1	18882.5
67.5°	14334.2	14380.3	14807.2	16135.9	15767.1	16246.1	16302.2	16701.1	17929.6	19647.1	18124.0
70°	12808.1	12833.2	13205.9	14794.2	13549.6	13654.8	13571.7	13652.8	15414.4	18465.7	16209.1
72.5°	10308.0	10371.1	10901.2	12286.1	9871.1	9567.5	10220.8	10184.8	11871.2	15600.8	12038.5
75°	7589.5	7698.7	8499.3	9896.2	6928.1	6266.8	6743.8	6871.0	8439.2	12067.6	7528.4
77.5°	5313.8	5395.0	6170.6	7274.8	5014.2	4481.1	4308.8	4460.1	5570.4	8729.8	3792.7
80°	3061.2	3091.3	3586.3	4200.6	3378.9	3865.9	3502.1	3606.4	3337.8	3883.9	1631.3
82.5°	2003.1	2008.1	2201.5	2500.1	2104.3	2445.0	1809.7	2313.7	2053.2	1560.2	531.1
85°	1082.2	1088.2	1276.6	1774.6	1191.4	673.4	395.8	812.7	1269.6	357.7	145.3
87.5°	119.2	109.2	384.8	645.3	330.7	61.1	21.0	91.2	203.4	23.0	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°	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5
2.5°	7588.5	7505.3	7297.9	7078.4	6902.1	6736.7	6570.4	6367.0	6209.7	6177.6	6125.5
5°	7426.1	7162.6	6727.7	6290.8	5939.1	5495.2	5213.6	4994.2	4779.7	4766.7	4723.6
7.5°	6859.0	6512.3	5900.0	5295.8	4800.8	4377.9	3951.1	3665.5	3441.0	3361.9	3314.8
10°	6313.9	5924.1	5159.5	4470.1	4028.2	3654.5	3353.8	3055.2	2784.7	2598.3	2514.1
12.5°	5933.1	5502.2	4659.5	4065.3	3748.6	3393.9	3027.2	2654.4	2342.8	2118.3	1981.0
15°	5785.8	5325.9	4492.2	3905.0	3514.2	3065.3	2596.3	2170.4	1824.7	1621.3	1498.1
17.5°	5961.2	5426.1	4479.1	3709.6	3163.5	2605.3	2087.3	1584.2	1258.6	1104.3	1025.1
20°	6406.1	5744.7	4474.1	3470.1	2746.6	2060.2	1413.9	1042.1	844.7	758.5	721.5
22.5°	7035.3	6151.5	4514.2	3233.6	2312.7	1472.0	976.0	765.6	664.4	618.3	597.2
25°	7845.0	6722.7	4627.4	3019.2	1904.9	1098.2	760.6	641.3	570.2	534.1	519.1
27.5°	8707.8	7380.0	4803.8	2832.8	1573.2	875.8	651.3	549.1	498.0	473.0	458.9
30°	9419.2	8141.6	4982.2	2625.4	1332.7	763.6	596.2	501.0	441.9	425.9	412.8
32.5°	10041.5	8717.8	5108.4	2438.0	1175.4	678.4	539.1	447.9	407.8	376.8	362.7
35°	10685.8	9197.8	5104.4	2306.7	1067.2	614.3	491.0	400.8	352.7	316.6	305.6
37.5°	11383.2	9739.9	5017.2	2194.5	1020.1	563.1	463.9	375.8	327.7	291.6	277.6
40°	12199.9	10309.0	4928.0	2089.3	1007.1	522.1	444.9	355.7	304.6	269.5	255.5
42.5°	12995.5	10822.1	4849.9	2011.1	950.9	521.1	427.9	340.7	286.6	252.5	236.5
45°	13631.8	11300.0	4834.9	1964.0	891.8	539.1	418.9	330.7	272.6	238.5	223.5
47.5°	14160.9	11819.1	4931.1	1930.9	835.7	492.0	440.9	323.7	259.5	226.5	209.4
50°	14790.2	12456.4	5157.5	1876.8	776.6	442.9	505.0	325.7	248.5	214.4	196.4
52.5°	15667.9	13338.2	5490.2	1785.6	695.4	397.8	497.0	327.7	236.5	201.4	183.4
55°	16652.0	14439.4	5847.9	1634.3	582.2	338.7	425.9	313.6	213.4	187.4	170.3
57.5°	17686.1	15438.5	6060.4	1454.0	462.9	292.6	340.7	285.6	188.4	168.3	157.3
60°	17848.4	15818.3	5963.2	1232.5	367.7	254.5	252.5	290.6	168.3	148.3	140.3
62.5°	17444.6	15341.3	5493.2	1035.1	307.6	223.5	207.4	253.5	152.3	132.3	124.3
65°	16668.0	14051.7	4731.6	932.9	285.6	191.4	172.4	178.4	133.3	115.2	108.2
67.5°	15587.8	12330.1	3884.9	874.8	282.6	164.3	147.3	135.3	115.2	100.2	94.2
70°	13379.3	10271.9	3099.3	842.7	274.6	138.3	124.3	110.2	96.2	85.2	80.2
72.5°	9847.1	7278.8	2410.9	807.6	276.6	110.2	108.2	91.2	77.2	66.1	64.1
75°	5689.6	4158.5	1581.2	654.3	263.5	85.2	90.2	64.1	54.1	46.1	46.1
77.5°	3032.2	2536.2	602.2	272.6	96.2	54.1	51.1	38.1	34.1	28.1	27.1
80°	1321.7	1116.3	181.4	76.2	53.1	29.1	19.0	17.0	15.0	12.0	11.0
82.5°	468.0	403.8	59.1	37.1	23.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	106.2	76.2	0.0	9.0	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°	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5
2.5°	6019.3	5997.2	5867.0	5872.0	5895.0	5928.1	5849.9	5886.0	5983.2	6076.4	6111.5
5°	4654.5	4659.5	4580.3	4629.4	4673.5	4703.6	4577.3	4579.3	4656.5	4761.7	4816.8
7.5°	3279.7	3271.7	3275.7	3392.9	3476.1	3416.0	3463.1	3299.7	3309.7	3384.9	3328.8
10°	2438.0	2327.7	2265.6	2353.8	2445.0	2411.9	2330.8	2277.6	2314.7	2397.9	2391.9
12.5°	1915.9	1757.6	1664.4	1601.3	1676.4	1614.3	1612.3	1566.2	1516.1	1525.1	1658.4
15°	1440.9	1325.7	1215.5	1114.3	1112.3	1091.2	984.0	863.8	853.7	859.8	928.9
17.5°	991.0	951.9	906.8	819.7	796.6	708.4	604.2	556.1	532.1	543.1	566.2
20°	696.4	681.4	686.4	639.3	606.2	522.1	460.9	441.9	437.9	448.9	459.9
22.5°	577.2	550.1	547.1	526.1	493.0	431.9	398.8	387.8	382.8	392.8	400.8
25°	505.0	478.0	467.0	453.9	418.9	376.8	356.7	346.7	341.7	347.7	352.7
27.5°	444.9	419.9	409.8	400.8	366.7	336.7	320.7	311.6	307.6	309.6	314.6
30°	399.8	377.8	364.7	353.7	324.7	303.6	289.6	280.6	276.6	276.6	281.6
32.5°	352.7	340.7	328.7	314.6	287.6	273.6	259.5	249.5	245.5	246.5	250.5
35°	293.6	289.6	292.6	279.6	256.5	244.5	230.5	219.4	216.4	217.4	221.5
37.5°	260.5	242.5	253.5	246.5	233.5	217.4	199.4	189.4	184.4	187.4	189.4
40°	239.5	217.4	209.4	216.4	214.4	188.4	172.4	162.3	158.3	159.3	161.3
42.5°	221.5	195.4	177.4	176.4	188.4	164.3	147.3	138.3	133.3	133.3	135.3
45°	204.4	176.4	154.3	137.3	158.3	139.3	123.3	115.2	109.2	109.2	110.2
47.5°	191.4	160.3	134.3	112.2	119.2	114.2	101.2	93.2	87.2	87.2	88.2
50°	179.4	144.3	116.2	94.2	89.2	94.2	82.2	73.1	69.1	68.1	70.1
52.5°	166.3	128.3	99.2	80.2	70.1	71.1	64.1	58.1	53.1	53.1	55.1
55°	153.3	115.2	86.2	68.1	58.1	53.1	51.1	47.1	43.1	43.1	45.1
57.5°	140.3	101.2	73.1	56.1	46.1	42.1	42.1	39.1	36.1	36.1	38.1
60°	128.3	87.2	60.1	46.1	36.1	35.1	36.1	33.1	31.1	31.1	33.1
62.5°	114.2	74.2	49.1	38.1	29.1	28.1	31.1	29.1	27.1	27.1	29.1
65°	97.2	63.1	39.1	29.1	22.0	22.0	26.1	24.0	22.0	22.0	24.0
67.5°	82.2	53.1	30.1	21.0	16.0	17.0	22.0	20.0	19.0	19.0	21.0
70°	68.1	41.1	21.0	13.0	9.0	13.0	17.0	17.0	17.0	17.0	19.0
72.5°	51.1	28.1	12.0	5.0	4.0	9.0	14.0	16.0	15.0	15.0	18.0
75°	33.1	16.0	4.0	0.0	0.0	5.0	11.0	13.0	13.0	12.0	15.0
77.5°	19.0	5.0	0.0	0.0	0.0	0.0	7.0	6.0	5.0	4.0	7.0
80°	5.0	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°	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5	7096.5
2.5°	6252.7	6371.0	6537.3	6713.7	6985.2	7200.7	7412.1	7593.5	7663.6	7692.7
5°	4949.1	5122.4	5365.9	5678.6	6168.6	6609.5	7056.4	7506.3	7701.7	7750.8
7.5°	3551.2	3772.7	4082.3	4474.1	5048.3	5619.5	6243.7	6904.1	7206.7	7282.8
10°	2628.4	2898.9	3253.6	3666.5	4214.6	4801.8	5482.2	6236.7	6582.4	6683.6
12.5°	1864.8	2230.5	2705.5	3207.5	3682.5	4206.6	4895.0	5726.7	6089.4	6198.6
15°	1095.2	1449.0	2011.1	2683.5	3291.7	3822.8	4522.2	5465.1	5865.0	5975.2
17.5°	628.3	804.6	1229.5	1979.0	2804.7	3540.2	4405.0	5530.3	6001.2	6103.4
20°	480.0	536.1	708.4	1274.6	2235.6	3262.7	4405.0	5899.0	6479.2	6629.5
22.5°	419.9	460.9	531.1	760.6	1645.4	2965.0	4456.1	6432.1	7190.7	7357.0
25°	372.8	409.8	470.0	572.2	1122.3	2611.3	4577.3	7086.4	8028.4	8243.8
27.5°	333.7	368.8	422.9	501.0	767.6	2184.5	4740.7	7854.0	8952.3	9124.6
30°	298.6	331.7	380.8	435.9	592.2	1700.5	4880.0	8577.5	9677.7	9863.1
32.5°	265.5	295.6	339.7	380.8	485.0	1257.6	4895.0	9150.7	10280.0	10464.3
35°	234.5	261.5	301.6	333.7	401.8	993.0	4661.5	9647.7	10882.2	11125.7
37.5°	204.4	230.5	265.5	289.6	353.7	809.7	4304.8	10201.8	11654.8	11880.2
40°	176.4	199.4	235.5	251.5	334.7	622.3	3917.0	10783.0	12412.3	12618.7
42.5°	150.3	172.4	207.4	238.5	293.6	464.9	3498.1	11328.1	13093.7	13310.1
45°	125.3	148.3	183.4	252.5	243.5	347.7	3050.2	11689.8	13631.8	13867.3
47.5°	101.2	127.3	175.4	240.5	194.4	255.5	2695.5	12032.5	14039.6	14272.1
50°	81.2	107.2	197.4	214.4	159.3	195.4	2547.2	12339.2	14307.2	14530.6
52.5°	66.1	90.2	186.4	164.3	133.3	161.3	2627.4	12836.2	14554.7	14695.0
55°	55.1	71.1	112.2	114.2	113.2	137.3	2726.6	13549.6	15195.0	15261.1
57.5°	48.1	57.1	78.2	88.2	95.2	122.2	2728.6	14573.7	16186.0	16227.1
60°	41.1	50.1	65.1	71.1	82.2	109.2	2629.4	14931.4	16575.8	16712.1
62.5°	36.1	44.1	54.1	59.1	69.1	98.2	2396.9	14413.4	16040.7	16272.2
65°	32.1	40.1	45.1	50.1	61.1	88.2	2014.1	13377.3	15152.9	15394.4
67.5°	28.1	35.1	40.1	45.1	55.1	78.2	1483.0	12173.8	14133.8	14334.2
70°	25.1	31.1	36.1	40.1	48.1	66.1	899.8	10330.1	12724.9	12808.1
72.5°	24.0	28.1	33.1	36.1	42.1	58.1	455.9	7591.5	10172.7	10308.0
75°	21.0	25.1	30.1	32.1	37.1	50.1	185.4	4986.2	7372.0	7589.5
77.5°	17.0	23.0	27.1	29.1	32.1	41.1	94.2	3186.5	5173.5	5313.8
80°	6.0	17.0	23.0	24.0	27.1	30.1	62.1	1744.6	3001.1	3061.2
82.5°	0.0	11.0	18.0	17.0	19.0	23.0	40.1	829.7	1981.0	2003.1
85°	0.0	5.0	14.0	11.0	8.0	16.0	14.0	181.4	1039.1	1082.2
87.5°	0.0	0.0	1.0	5.0	4.0	6.0	2.0	1.0	94.2	119.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)