

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: P268451

Luminaire Tested: **GAN-AF-04-LED-U-SLL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268451
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-04-LED-U-SLL-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA 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: 14812.5 lumens
Efficiency: N/A
Efficacy: 86.6 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

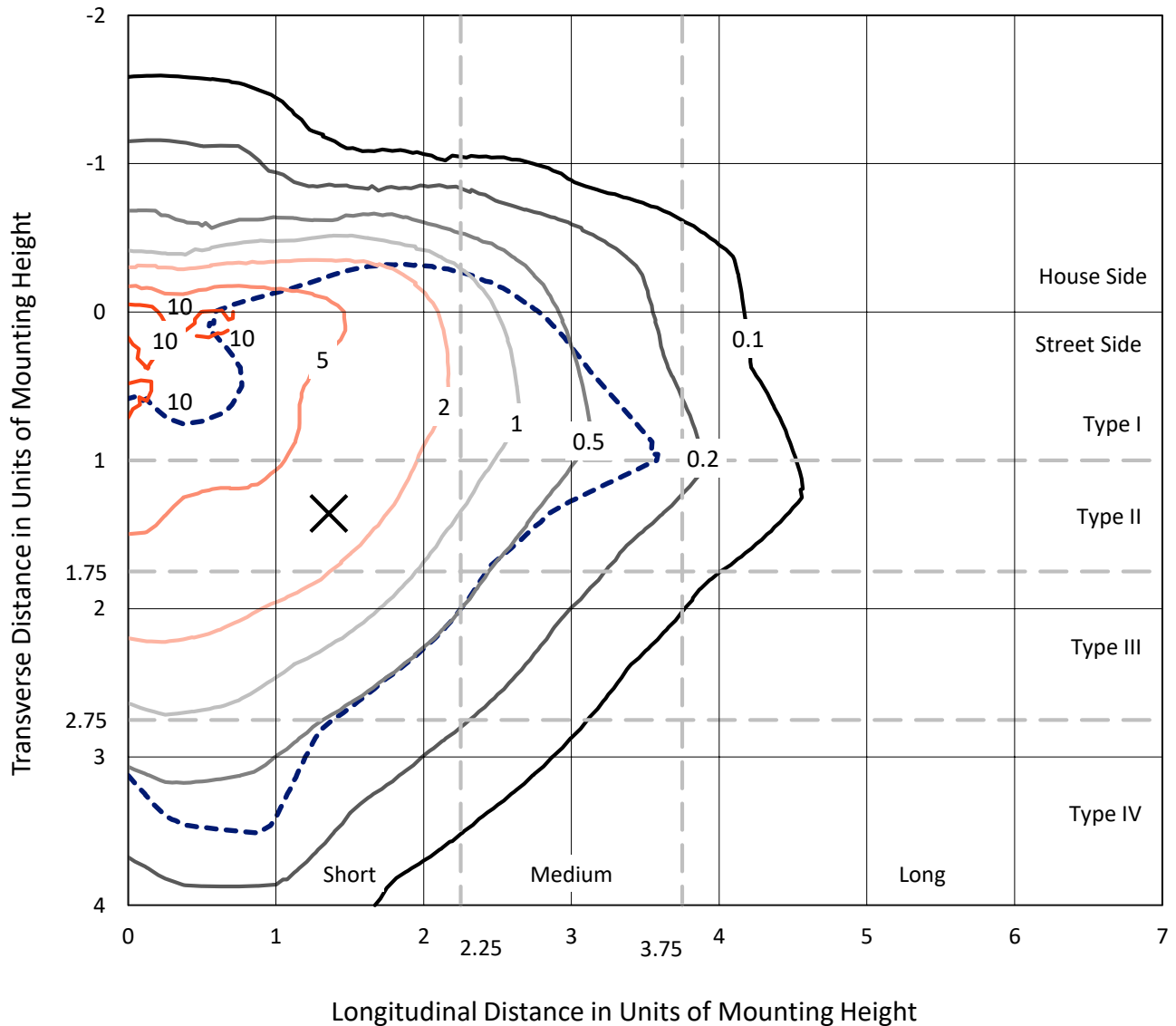
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

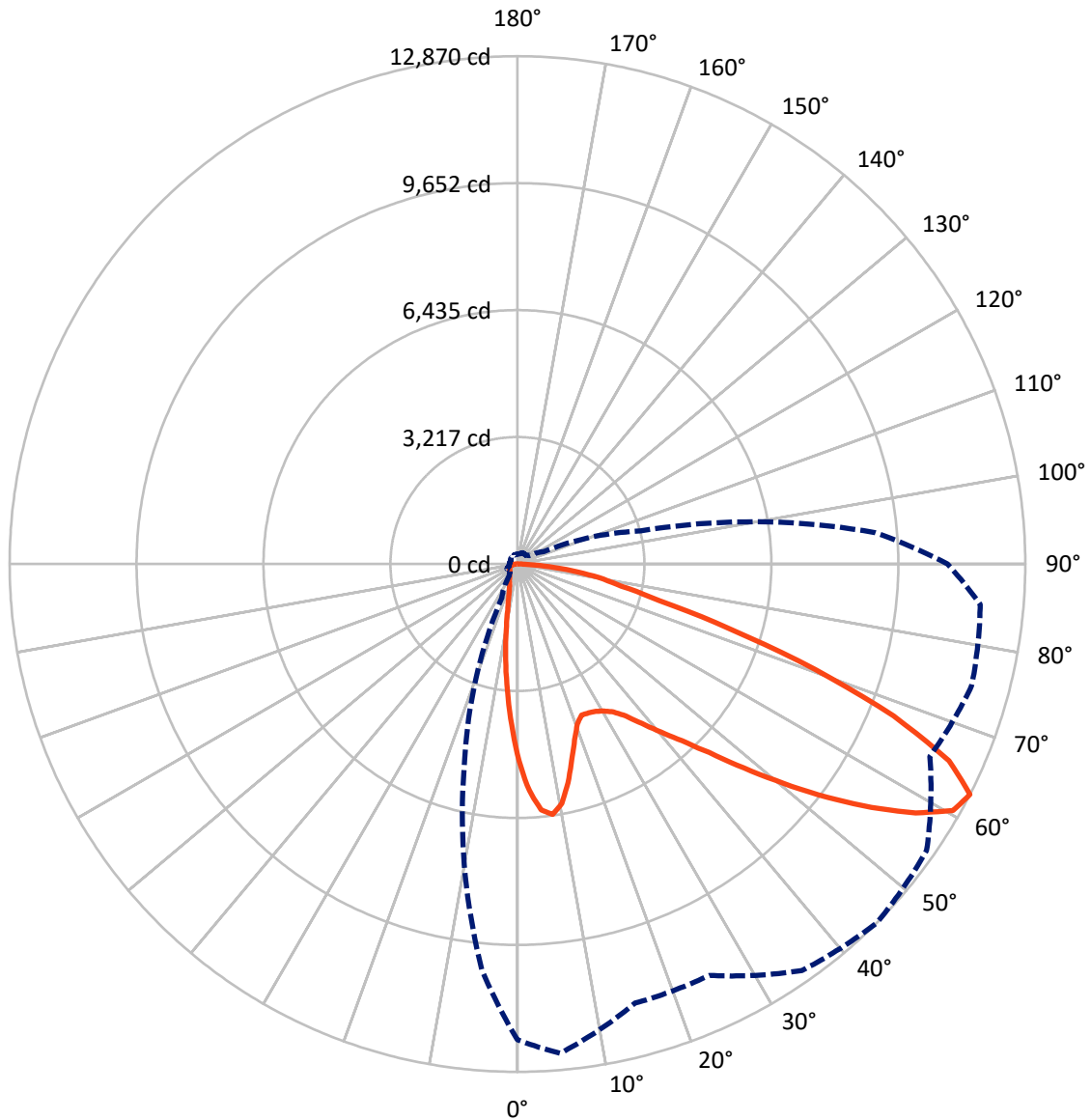
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.7 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	2451.3	0.0	2451.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	12361.3	0.0	12361.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	14812.5	0.0	14812.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.3	2.5
10°-20°	668.0	4.5
20°-30°	974.0	6.6
30°-40°	1500.1	10.1
40°-50°	2207.7	14.9
50°-60°	3238.3	21.9
60°-70°	3619.9	24.4
70°-80°	1772.3	12.0
80°-90°	467.9	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°	14812.5	100.0
0°-180°	14812.5	100.0

Coefficient of Utilization



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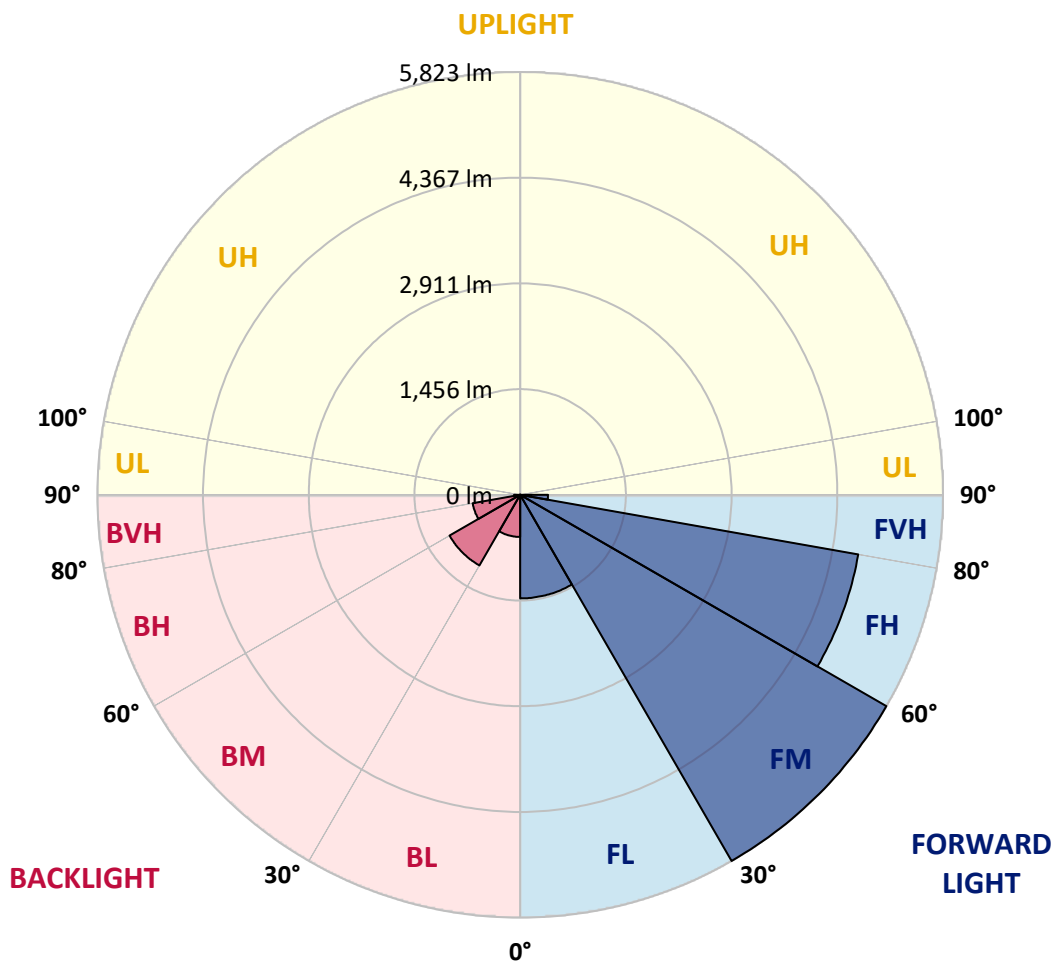
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1426.4	9.6			
FM	(30°-60°)	5822.9	39.3			
FH	(60°-80°)	4727.6	31.9			G2/5000
FVH	(80°-90°)	384.3	2.6			G3/500
BL	(0°-30°)	579.9	3.9	B2/1000		
BM	(30°-60°)	1123.2	7.6	B2/2500		
BH	(60°-80°)	664.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	83.6	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°	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5
2.5°	5199.8	5282.9	5444.9	5566.3	5713.7	5747.9	5795.1	5748.8	5666.5	5557.4	5521.5
5°	4889.7	5067.2	5460.4	5806.6	6114.4	6257.7	6297.5	6179.4	5940.9	5627.4	5436.1
7.5°	4392.2	4644.5	5177.1	5686.8	6140.4	6408.2	6401.7	6127.2	5688.4	5177.9	4870.9
10°	3963.1	4251.3	4861.9	5432.0	5913.3	6173.0	6072.8	5721.8	5198.2	4610.5	4277.3
12.5°	3722.8	4005.4	4625.1	5197.5	5599.7	5689.2	5612.7	5269.1	4775.7	4181.3	3889.8
15°	3681.3	3991.4	4530.5	4996.4	5221.8	5143.8	5052.4	4898.5	4550.2	4042.8	3739.0
17.5°	3861.3	4203.2	4638.8	4856.2	4818.0	4682.1	4655.9	4673.1	4589.3	4196.7	3846.6
20°	4206.6	4616.8	4897.0	4790.3	4511.0	4323.7	4330.3	4591.6	4840.0	4586.7	4186.9
22.5°	4690.9	5159.1	5269.1	4825.3	4381.6	4159.2	4213.1	4636.4	5239.9	5156.7	4646.3
25°	5318.0	5744.7	5665.6	4952.4	4394.6	4179.6	4222.8	4791.1	5712.1	5726.8	5214.5
27.5°	5925.4	6321.2	5998.7	5120.9	4448.3	4227.7	4284.6	5034.6	6163.2	6345.5	5864.3
30°	6399.3	6674.5	6130.7	5274.8	4554.1	4321.2	4392.2	5265.9	6368.4	6763.2	6364.3
32.5°	6791.7	6989.6	6340.6	5465.4	4748.8	4468.7	4593.3	5546.8	6663.9	7160.6	6853.7
35°	7293.3	7349.6	6602.1	5677.8	5049.3	4725.2	4880.0	5821.9	6945.6	7562.1	7335.6
37.5°	7881.3	7808.7	6848.8	5968.6	5437.7	5126.5	5254.5	6124.0	7177.7	8017.3	7828.3
40°	8462.7	8288.4	7158.2	6419.6	6004.5	5599.7	5751.2	6446.5	7394.3	8473.3	8309.5
42.5°	8956.9	8698.7	7463.6	6915.5	6532.0	6121.6	6302.4	6771.5	7601.2	8862.5	8727.3
45°	9322.5	9001.6	7754.2	7392.0	7259.2	6815.4	6900.9	7143.5	7825.0	9187.3	9070.9
47.5°	9649.1	9306.3	8083.2	7872.2	7895.2	7717.6	7580.0	7576.8	8088.9	9452.8	9395.8
50°	10086.3	9728.9	8436.6	8367.4	8849.5	8731.3	8427.5	8082.4	8422.8	9754.1	9747.6
52.5°	10688.8	10398.2	8868.2	8900.8	9740.2	9817.5	9441.4	8689.8	8945.5	10307.0	10267.8
55°	11401.3	11232.0	9456.1	9513.9	10833.0	10888.4	10514.7	9449.5	9714.2	11107.4	10999.0
57.5°	11957.5	11921.6	10100.9	10250.0	11649.0	11898.1	11554.4	10328.9	10580.5	11781.6	11509.7
60°	12179.0	12352.4	10787.3	10992.6	12403.6	12679.8	12378.5	11101.7	11348.4	12060.9	11474.6
62.5°	12059.2	12446.8	11518.5	11501.4	12572.1	12869.5	12657.7	11531.6	11917.5	11772.6	10894.0
65°	11506.4	12107.3	11942.7	11370.3	11995.7	12020.2	11951.8	11339.5	12051.9	10861.4	9772.0
67.5°	10302.0	11166.8	11384.2	10246.6	10440.6	10281.7	10166.8	10287.4	11351.6	9496.0	8212.7
70°	8391.0	9692.3	9796.3	8195.5	8107.7	8000.9	7772.1	8434.1	9969.8	7782.7	6516.6
72.5°	6169.6	7537.7	7857.7	6010.9	5603.7	5625.7	5444.9	6356.1	8105.9	5781.3	4865.2
75°	4221.1	5458.0	6147.7	4194.2	3705.7	3714.8	3691.9	4503.7	6456.3	4021.6	3640.7
77.5°	3083.6	3899.5	4636.4	2819.8	2737.6	2687.1	2674.9	3151.3	4949.9	2919.9	2827.1
80°	2474.6	2880.9	3114.6	1954.3	2101.7	2097.5	2030.0	2166.7	3232.6	2135.8	2114.6
82.5°	1716.5	2214.1	2523.3	1531.6	1418.5	1394.9	1411.1	1613.8	2284.7	1459.9	1388.3
85°	905.4	1470.5	2498.9	1357.3	841.9	671.8	835.5	1321.5	1979.4	773.5	677.5
87.5°	115.6	425.1	1654.6	541.5	332.3	179.1	396.5	744.2	1271.0	157.9	137.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5
2.5°	5429.5	5321.2	5179.5	5048.5	4912.4	4777.2	4600.6	4489.9	4413.4	4398.6	4366.1
5°	5297.7	4937.8	4665.7	4430.4	4217.1	3915.8	3748.8	3610.5	3536.4	3529.0	3511.1
7.5°	4689.3	4192.7	3825.4	3492.4	3190.3	2946.8	2678.0	2552.8	2501.4	2513.6	2525.9
10°	4056.7	3501.4	3079.6	2739.2	2472.9	2267.7	2052.0	1906.3	1805.2	1784.8	1780.8
12.5°	3594.2	2985.1	2575.5	2335.4	2129.3	1936.3	1707.5	1535.7	1404.6	1359.9	1329.8
15°	3398.7	2732.6	2303.6	2044.6	1817.5	1572.4	1359.9	1179.8	1059.3	1020.3	998.2
17.5°	3440.2	2662.7	2116.2	1784.8	1494.2	1238.6	970.6	816.6	744.2	725.6	725.6
20°	3658.4	2649.6	1961.5	1545.4	1183.1	886.7	666.9	579.0	555.3	552.8	559.5
22.5°	3964.7	2695.3	1845.9	1337.8	919.2	647.4	519.5	486.9	476.3	478.7	486.2
25°	4420.6	2849.2	1762.0	1153.1	721.3	530.1	463.3	443.8	438.9	445.4	454.4
27.5°	4961.2	3003.0	1710.0	1013.7	609.1	484.5	440.4	420.1	423.5	431.5	439.7
30°	5436.1	3129.2	1627.6	914.5	574.0	486.9	440.4	412.9	409.5	411.2	413.7
32.5°	5861.9	3214.8	1531.6	820.0	495.1	432.4	411.2	407.1	389.2	382.7	383.5
35°	6229.1	3214.8	1473.8	764.5	443.8	383.5	349.4	329.0	319.9	320.9	329.8
37.5°	6583.3	3150.4	1445.4	733.6	416.1	364.8	334.7	316.7	304.5	302.1	303.7
40°	6896.0	3056.8	1412.8	720.6	395.0	353.5	324.8	310.3	297.2	293.1	293.9
42.5°	7146.7	2981.0	1376.9	703.6	381.9	345.3	318.4	305.3	290.7	286.6	285.8
45°	7417.9	2955.8	1329.8	669.3	388.3	346.0	316.7	302.9	288.3	283.3	281.8
47.5°	7775.4	3034.7	1280.9	628.6	402.3	350.1	319.2	302.9	287.5	283.3	281.8
50°	8225.7	3220.5	1219.0	569.2	388.3	361.6	318.4	300.5	287.5	283.3	280.1
52.5°	8803.7	3471.2	1137.6	500.7	380.3	389.2	316.7	295.6	283.3	277.7	271.9
55°	9506.6	3676.5	1040.6	444.7	361.6	381.9	314.2	289.9	276.9	268.8	263.8
57.5°	10021.1	3750.6	916.0	407.9	335.4	369.7	311.1	282.5	268.8	262.1	255.7
60°	9919.4	3607.1	811.0	385.2	319.9	333.8	308.6	276.0	261.3	256.5	250.7
62.5°	9104.3	3232.6	743.3	374.6	310.3	304.5	311.1	269.5	254.8	250.0	248.3
65°	7882.1	2679.7	716.6	372.1	302.1	287.5	289.1	262.1	247.6	243.5	241.9
67.5°	6501.9	2162.7	693.0	380.3	291.5	275.2	267.1	252.5	240.1	236.2	232.9
70°	5127.4	1798.6	682.4	375.4	278.5	263.1	254.0	241.9	231.3	227.2	224.8
72.5°	4129.1	1519.5	676.7	370.6	261.3	246.8	238.6	228.0	216.6	215.0	212.4
75°	3494.0	1194.6	619.7	355.0	241.9	227.2	221.5	211.7	200.3	200.3	198.6
77.5°	2695.3	863.9	515.4	314.2	221.5	205.3	200.3	193.0	179.9	182.4	181.5
80°	1990.9	563.4	403.1	260.6	196.2	180.7	178.4	170.9	157.2	160.3	160.3
82.5°	1363.8	369.7	289.9	213.3	167.8	153.2	153.2	145.7	130.3	132.0	136.8
85°	684.8	254.0	216.6	165.3	130.3	123.0	123.0	117.3	101.8	102.5	109.1
87.5°	208.4	153.2	143.3	118.0	93.7	91.9	87.9	83.9	74.1	73.3	77.3
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°	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5
2.5°	4316.4	4270.1	4213.8	4090.1	4048.5	4046.1	4083.5	4044.4	4119.4	4087.6	4122.6
5°	3481.0	3435.4	3372.6	3214.8	3118.6	3053.5	3022.5	2931.3	2997.4	2949.2	2989.2
7.5°	2560.0	2570.6	2529.1	2436.3	2227.0	2121.9	2060.2	2004.7	2052.7	2047.9	2124.4
10°	1799.6	1828.1	1798.6	1705.1	1535.7	1477.9	1489.3	1511.3	1574.0	1606.6	1724.7
12.5°	1295.4	1293.9	1275.1	1191.2	1079.8	1086.2	1132.7	1170.9	1228.7	1262.9	1383.4
15°	967.4	952.7	944.6	876.1	812.6	826.5	849.3	853.3	890.0	910.3	1008.1
17.5°	731.2	738.5	747.5	698.6	650.6	641.6	623.8	601.8	612.4	616.3	665.3
20°	580.6	609.9	631.9	597.6	548.9	522.8	499.9	485.4	485.4	484.5	498.3
22.5°	507.4	528.5	552.1	528.5	484.5	461.6	448.7	437.2	435.7	435.7	448.7
25°	467.4	482.8	505.7	489.3	456.8	439.7	427.6	412.9	407.1	405.6	414.5
27.5°	447.9	454.4	465.7	451.0	423.5	415.2	412.1	398.9	391.8	387.6	396.5
30°	414.5	412.9	413.7	398.9	377.0	376.2	381.9	384.4	381.9	381.2	395.0
32.5°	383.5	380.3	379.4	366.4	346.0	341.1	346.0	351.0	356.6	364.8	381.2
35°	344.4	352.6	357.4	346.0	321.7	307.0	301.3	292.3	287.5	287.5	306.1
37.5°	313.5	332.3	339.6	329.0	302.1	281.8	271.9	270.3	271.2	274.4	292.3
40°	302.9	316.7	323.3	312.7	285.8	267.1	261.3	259.8	261.3	266.3	284.1
42.5°	296.4	306.1	305.3	292.3	270.3	257.4	254.0	252.5	254.0	258.9	278.5
45°	290.7	297.2	290.7	275.2	254.8	248.3	249.2	248.3	250.0	254.8	273.7
47.5°	285.8	288.3	280.1	264.6	243.5	241.9	245.1	247.6	249.2	253.2	272.7
50°	278.5	278.5	271.2	254.8	233.6	234.5	238.6	244.2	245.1	250.0	265.4
52.5°	269.5	268.8	263.8	248.3	225.6	228.0	228.0	234.5	236.2	241.9	258.2
55°	262.1	260.6	258.2	243.5	218.2	222.3	219.8	222.3	226.4	232.0	250.0
57.5°	255.7	252.5	252.5	239.4	212.4	214.2	208.4	211.7	216.6	221.5	240.1
60°	249.2	245.9	247.6	233.6	203.6	201.8	199.6	206.0	207.7	213.3	232.0
62.5°	241.9	239.4	240.1	227.2	197.1	193.0	193.0	198.6	199.6	207.7	225.6
65°	236.2	232.9	232.0	220.7	189.7	184.8	187.2	189.7	191.3	199.6	216.6
67.5°	230.4	223.9	223.9	215.0	181.5	176.6	181.5	180.7	183.3	190.5	204.4
70°	223.0	214.2	215.0	210.9	173.5	167.8	171.8	170.9	172.7	177.5	191.3
72.5°	211.7	204.4	206.0	204.4	165.3	157.2	158.8	158.8	158.8	162.9	177.5
75°	197.1	191.3	196.2	200.3	155.5	144.1	145.7	145.7	143.3	145.7	163.8
77.5°	179.1	175.9	192.1	186.5	144.1	130.3	130.3	128.6	123.7	127.0	146.6
80°	159.5	157.2	177.5	156.3	131.2	113.1	111.6	107.4	102.5	105.0	124.5
82.5°	139.2	136.8	148.9	119.7	113.1	93.7	89.7	82.3	77.3	79.8	97.7
85°	113.9	113.9	114.9	90.4	86.2	71.7	66.7	57.0	51.4	52.9	70.0
87.5°	81.4	83.9	77.3	62.0	51.4	40.0	36.7	30.9	26.1	30.2	36.7
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°	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5	5004.5
2.5°	4301.8	4391.4	4493.1	4623.3	4735.0	4918.2	5094.0	5199.8
5°	3216.3	3365.4	3551.0	3789.6	4011.9	4345.7	4677.1	4889.7
7.5°	2301.9	2461.5	2661.9	2959.8	3274.1	3699.9	4138.1	4392.2
10°	1904.5	2068.3	2236.8	2437.9	2695.3	3158.5	3676.5	3963.1
12.5°	1575.5	1750.6	1932.3	2144.0	2382.6	2796.2	3393.1	3722.8
15°	1206.0	1401.4	1615.5	1883.3	2182.3	2660.2	3323.0	3681.3
17.5°	826.5	1044.6	1307.8	1638.2	2003.8	2616.3	3448.5	3861.3
20°	569.2	727.9	1008.8	1396.4	1836.1	2610.6	3689.3	4206.6
22.5°	476.3	547.2	752.4	1174.2	1710.0	2680.5	4063.2	4690.9
25°	440.4	482.8	601.0	981.2	1617.9	2841.8	4577.9	5318.0
27.5°	419.4	457.6	545.6	854.9	1545.4	3029.1	5078.6	5925.4
30°	427.6	466.6	530.1	790.7	1446.9	3185.4	5523.1	6399.3
32.5°	385.2	402.3	454.4	733.6	1376.2	3316.5	5912.4	6791.7
35°	328.2	358.2	405.6	706.7	1377.7	3404.4	6336.6	7293.3
37.5°	312.7	342.9	377.0	697.1	1396.4	3498.1	6823.5	7881.3
40°	302.9	330.5	360.0	691.3	1414.4	3583.6	7300.6	8462.7
42.5°	296.4	321.7	358.2	671.8	1423.4	3660.1	7693.2	8956.9
45°	295.6	321.7	364.8	652.2	1437.2	3742.3	8022.1	9322.5
47.5°	296.4	332.3	352.6	628.6	1437.2	3880.0	8408.0	9649.1
50°	293.1	350.1	339.6	595.2	1403.8	4140.6	8937.3	10086.3
52.5°	291.5	347.7	314.2	544.0	1346.0	4554.1	9615.6	10688.8
55°	287.5	335.4	296.4	467.4	1278.4	5005.3	10341.9	11401.3
57.5°	283.3	297.2	286.6	400.6	1174.2	5322.8	10842.0	11957.5
60°	317.6	259.8	278.5	368.0	1034.9	5410.0	10822.4	12179.0
62.5°	293.9	243.5	267.9	360.7	937.2	5165.8	10322.5	12059.2
65°	230.4	232.9	257.4	381.9	911.2	4518.4	9436.5	11506.4
67.5°	210.9	222.3	246.8	408.8	913.5	3617.7	8112.6	10302.0
70°	198.6	210.9	234.5	422.7	920.1	2696.8	6414.0	8391.0
72.5°	184.8	195.4	220.7	425.1	877.7	1959.2	4943.5	6169.6
75°	168.5	178.4	201.1	370.6	727.2	1359.0	3781.4	4221.1
77.5°	149.8	157.2	176.6	285.8	539.8	869.6	2838.6	3083.6
80°	127.9	132.0	148.2	209.2	369.7	544.0	2245.8	2474.6
82.5°	102.5	104.3	114.9	157.2	240.1	349.4	1503.9	1716.5
85°	72.5	72.5	79.1	113.9	163.8	221.5	816.6	905.4
87.5°	34.1	35.0	35.0	62.7	85.5	112.4	188.0	115.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)