

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: P324108

Luminaire Tested: **GAN-SA4A-730-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324108
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-SA4A-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA 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: 12692 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

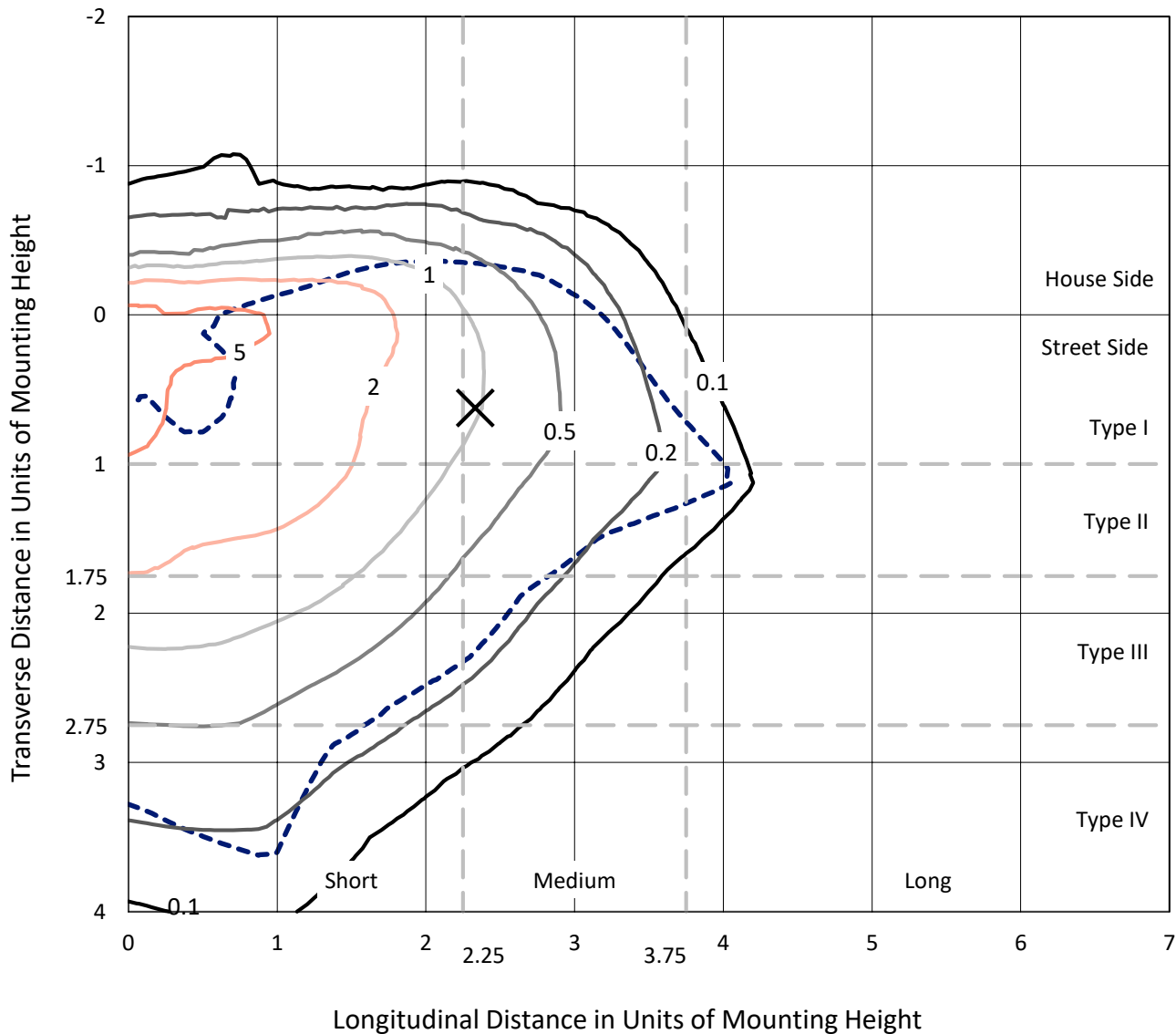
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

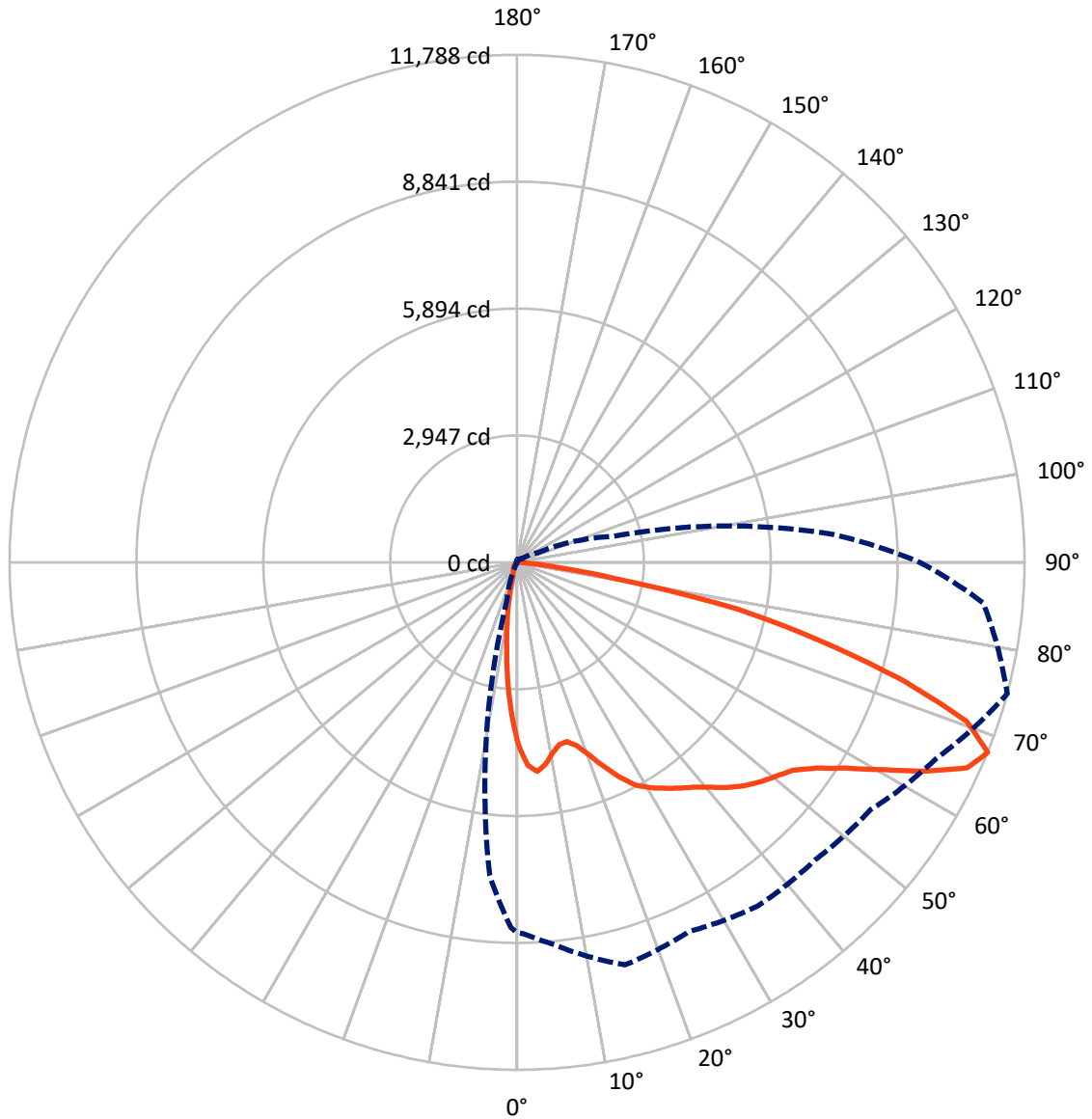
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	1904.6	0.0	1904.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	10787.4	0.0	10787.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	12692.0	0.0	12692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.0	2.5
10°-20°	636.0	5.0
20°-30°	899.7	7.1
30°-40°	1322.8	10.4
40°-50°	1901.3	15.0
50°-60°	2676.6	21.1
60°-70°	3126.0	24.6
70°-80°	1594.8	12.6
80°-90°	211.9	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°	12692.0	100.0
0°-180°	12692.0	100.0

Coefficient of Utilization

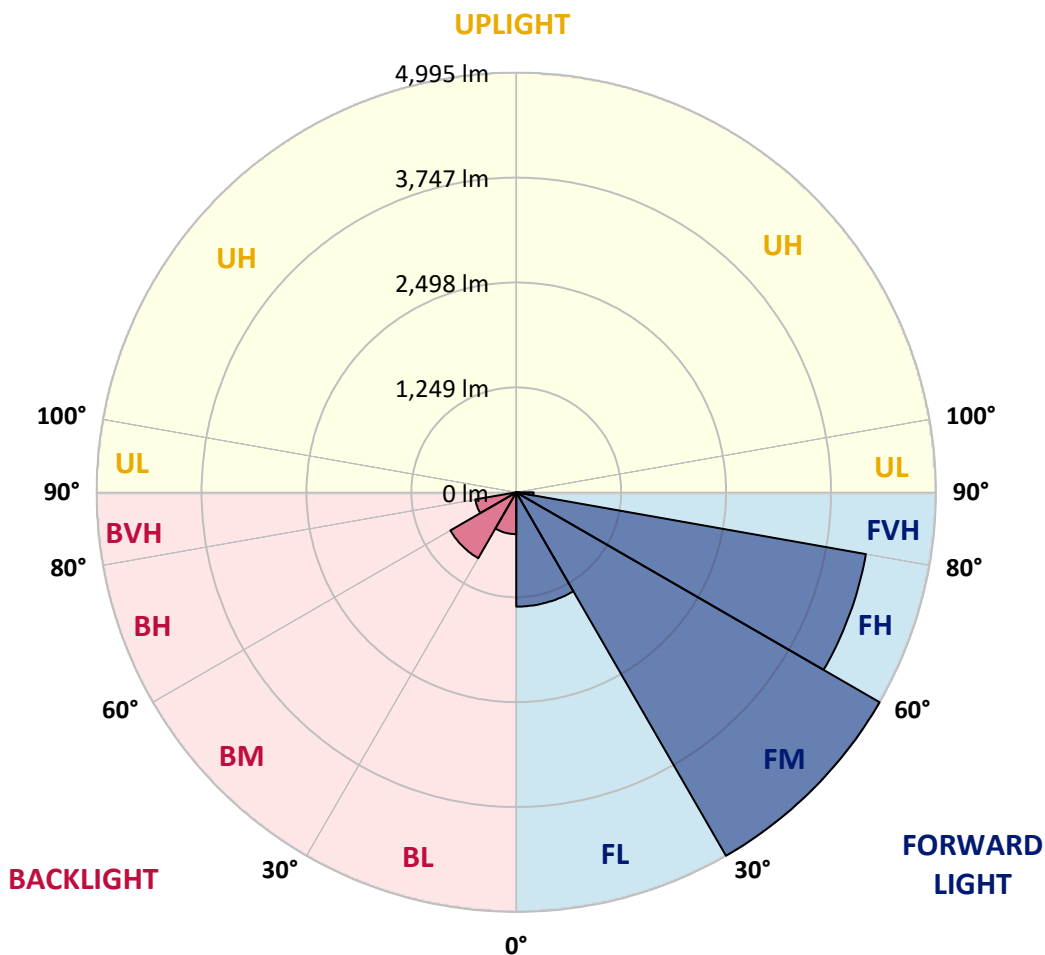


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1360.6	10.7			
FM (30°-60°)	4995.3	39.4			
FH (60°-80°)	4226.1	33.3			G2/5000
FVH (80°-90°)	205.4	1.6			G2/225
BL (0°-30°)	498.1	3.9	B1/500		
BM (30°-60°)	905.4	7.1	B1/1000		
BH (60°-80°)	494.7	3.9	B1/500		G1/500
BVH (80°-90°)	6.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9
2.5°	4615.7	4622.9	4660.2	4746.8	4841.1	4848.4	4912.1	4846.6	4824.3	4718.5	4609.1
5°	4650.6	4678.2	4806.3	5060.6	5281.3	5352.2	5402.7	5274.0	5138.8	4880.2	4604.3
7.5°	4369.8	4416.1	4617.5	5094.9	5489.3	5663.6	5696.7	5495.3	5164.0	4738.3	4323.5
10°	4010.2	4063.1	4306.0	4892.9	5434.6	5733.4	5779.1	5515.1	5039.0	4508.7	4019.9
12.5°	3719.2	3781.2	4029.5	4665.6	5246.4	5577.1	5667.2	5448.4	4930.7	4345.7	3812.4
15°	3585.2	3656.1	3917.0	4518.9	5037.8	5298.1	5372.6	5278.2	4870.6	4319.9	3764.3
17.5°	3662.1	3739.1	4008.4	4531.5	4841.7	4953.0	5013.1	5051.6	4870.6	4475.6	3905.0
20°	3977.8	4060.7	4345.7	4659.6	4679.4	4637.9	4702.3	4837.5	4927.1	4771.4	4242.9
22.5°	4414.3	4511.7	4833.3	4879.0	4600.1	4443.1	4451.5	4663.8	5029.9	5146.6	4711.9
25°	4946.4	5065.4	5392.5	5206.1	4633.1	4327.1	4324.1	4520.7	5130.3	5522.3	5234.4
27.5°	5474.8	5605.9	5893.3	5605.3	4769.6	4306.0	4300.0	4477.4	5228.3	5856.6	5804.9
30°	5918.0	6045.4	6293.1	5894.5	4916.9	4355.3	4326.5	4523.7	5286.7	6073.7	6221.0
32.5°	6278.7	6380.9	6581.1	6093.5	5074.4	4450.9	4388.4	4647.5	5385.9	6257.1	6603.4
35°	6675.5	6783.1	6863.1	6282.9	5251.2	4588.6	4499.0	4844.2	5538.6	6443.4	7022.4
37.5°	7128.2	7235.3	7225.6	6456.1	5475.5	4816.5	4759.4	5155.6	5776.1	6628.0	7490.2
40°	7571.4	7680.8	7602.6	6645.5	5738.8	5192.3	5150.2	5623.4	6094.1	6864.3	8038.5
42.5°	7986.2	8104.7	7937.5	6824.6	6052.6	5666.0	5738.2	6225.8	6492.1	7155.3	8511.1
45°	8320.5	8441.3	8218.3	6999.0	6383.3	6240.8	6457.9	6893.2	6970.7	7401.2	8830.3
47.5°	8563.4	8677.6	8413.1	7173.3	6806.6	6943.7	7321.8	7593.0	7403.0	7614.6	9057.0
50°	8718.5	8807.5	8470.2	7391.6	7362.1	7763.8	8221.9	8354.2	7810.0	7807.0	9332.4
52.5°	8817.1	8857.4	8512.3	7619.5	7941.7	8656.6	9103.3	9144.8	8229.1	8018.7	9703.3
55°	9156.8	9189.3	8810.5	7895.4	8420.9	9438.8	9900.5	9862.1	8703.5	8432.9	10141.0
57.5°	9736.4	9770.7	9426.8	8292.2	8808.7	9922.2	10478.3	10547.5	9259.6	9014.9	10610.0
60°	10027.4	10091.1	9968.5	8794.9	9184.5	10231.2	10872.1	11092.8	9954.7	9782.1	11064.5
62.5°	9763.5	9856.1	10034.0	9352.2	9557.8	10401.4	10994.8	11288.2	10666.5	10676.1	11344.7
65°	9236.8	9310.7	9612.6	9657.6	9774.3	10380.3	10691.8	11015.2	11102.4	11497.4	11329.7
67.5°	8600.7	8628.3	8884.5	9681.7	9460.4	9747.8	9781.5	10020.8	10757.9	11788.4	10874.5
70°	7685.0	7700.0	7923.7	8876.6	8129.9	8193.0	8143.1	8191.8	9248.8	11079.6	9725.6
72.5°	6184.9	6222.8	6540.8	7371.7	5922.8	5740.6	6132.6	6111.0	7122.8	9360.6	7223.2
75°	4553.8	4619.3	5099.7	5937.8	4156.9	3760.1	4046.3	4122.7	5063.6	7240.7	4517.1
77.5°	3188.4	3237.1	3702.4	4365.0	3008.6	2688.7	2585.3	2676.1	3342.3	5238.0	2275.7
80°	1836.8	1854.8	2151.8	2520.4	2027.4	2319.6	2101.3	2163.8	2002.7	2330.4	978.8
82.5°	1201.9	1204.9	1320.9	1500.1	1262.6	1467.0	1085.8	1388.3	1231.9	936.1	318.7
85°	649.3	652.9	766.0	1064.8	714.9	404.0	237.5	487.6	761.8	214.6	87.2
87.5°	71.5	65.5	230.9	387.2	198.4	36.7	12.6	54.7	122.1	13.8	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°	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9
2.5°	4553.2	4503.3	4378.8	4247.1	4141.3	4042.1	3942.3	3820.2	3725.9	3706.6	3675.4
5°	4455.8	4297.6	4036.7	3774.6	3563.5	3297.2	3128.2	2996.6	2867.9	2860.1	2834.2
7.5°	4115.5	3907.4	3540.1	3177.5	2880.5	2626.8	2370.7	2199.3	2064.6	2017.1	1988.9
10°	3788.4	3554.5	3095.8	2682.1	2417.0	2192.7	2012.3	1833.2	1670.8	1559.0	1508.5
12.5°	3559.9	3301.4	2795.7	2439.2	2249.2	2036.4	1816.3	1592.7	1405.7	1271.0	1188.6
15°	3471.5	3195.6	2695.3	2343.0	2108.5	1839.2	1557.8	1302.3	1094.8	972.8	898.8
17.5°	3576.7	3255.7	2687.5	2225.8	1898.1	1563.2	1252.4	950.6	755.2	662.6	615.1
20°	3843.7	3446.9	2684.5	2082.1	1648.0	1236.1	848.3	625.3	506.8	455.1	432.9
22.5°	4221.3	3691.0	2708.6	1940.2	1387.7	883.2	585.6	459.3	398.6	371.0	358.3
25°	4707.1	4033.7	2776.5	1811.5	1142.9	659.0	456.3	384.8	342.1	320.5	311.4
27.5°	5224.7	4428.1	2882.3	1699.7	943.9	525.5	390.8	329.5	298.8	283.8	275.4
30°	5651.6	4885.0	2989.3	1575.2	799.6	458.1	357.7	300.6	265.1	255.5	247.7
32.5°	6025.0	5230.7	3065.1	1462.8	705.2	407.0	323.5	268.8	244.7	226.1	217.6
35°	6411.6	5518.7	3062.7	1384.0	640.3	368.6	294.6	240.5	211.6	190.0	183.4
37.5°	6830.0	5844.0	3010.4	1316.7	612.1	337.9	278.4	225.5	196.6	175.0	166.5
40°	7320.0	6185.5	2956.9	1253.6	604.2	313.2	266.9	213.4	182.8	161.7	153.3
42.5°	7797.4	6493.3	2910.0	1206.7	570.6	312.6	256.7	204.4	172.0	151.5	141.9
45°	8179.2	6780.1	2901.0	1178.4	535.1	323.5	251.3	198.4	163.5	143.1	134.1
47.5°	8496.7	7091.6	2958.7	1158.6	501.4	295.2	264.5	194.2	155.7	135.9	125.7
50°	8874.2	7474.0	3094.6	1126.1	466.0	265.7	303.0	195.4	149.1	128.7	117.8
52.5°	9400.9	8003.0	3294.2	1071.4	417.3	238.7	298.2	196.6	141.9	120.8	110.0
55°	9991.3	8663.8	3508.8	980.6	349.3	203.2	255.5	188.2	128.1	112.4	102.2
57.5°	10611.8	9263.2	3636.3	872.4	277.8	175.6	204.4	171.4	113.0	101.0	94.4
60°	10709.2	9491.1	3578.0	739.5	220.7	152.7	151.5	174.4	101.0	89.0	84.2
62.5°	10466.9	9204.9	3296.0	621.1	184.6	134.1	124.5	152.1	91.4	79.4	74.6
65°	10000.9	8431.1	2839.0	559.8	171.4	114.8	103.4	107.0	80.0	69.1	64.9
67.5°	9352.8	7398.2	2331.0	524.9	169.5	98.6	88.4	81.2	69.1	60.1	56.5
70°	8027.7	6163.3	1859.6	505.6	164.7	83.0	74.6	66.1	57.7	51.1	48.1
72.5°	5908.3	4367.4	1446.6	484.6	165.9	66.1	64.9	54.7	46.3	39.7	38.5
75°	3413.8	2495.1	948.7	392.6	158.1	51.1	54.1	38.5	32.5	27.7	27.7
77.5°	1819.3	1521.7	361.3	163.5	57.7	32.5	30.7	22.8	20.4	16.8	16.2
80°	793.0	669.8	108.8	45.7	31.9	17.4	11.4	10.2	9.0	7.2	6.6
82.5°	280.8	242.3	35.5	22.2	13.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	63.7	45.7	0.0	5.4	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°	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9
2.5°	3611.6	3598.4	3520.2	3523.2	3537.1	3556.9	3510.0	3531.7	3590.0	3645.9	3666.9
5°	2792.7	2795.7	2748.2	2777.7	2804.2	2822.2	2746.4	2747.6	2793.9	2857.1	2890.1
7.5°	1967.8	1963.0	1965.4	2035.8	2085.7	2049.6	2077.9	1979.9	1985.9	2031.0	1997.3
10°	1462.8	1396.7	1359.4	1412.3	1467.0	1447.2	1398.5	1366.6	1388.9	1438.8	1435.1
12.5°	1149.6	1054.6	998.7	960.8	1005.9	968.6	967.4	939.7	909.7	915.1	995.0
15°	864.6	795.4	729.3	668.6	667.4	654.7	590.4	518.3	512.3	515.9	557.3
17.5°	594.6	571.2	544.1	491.8	478.0	425.1	362.5	333.7	319.3	325.9	339.7
20°	417.9	408.8	411.8	383.6	363.7	313.2	276.6	265.1	262.7	269.4	276.0
22.5°	346.3	330.1	328.3	315.6	295.8	259.1	239.3	232.7	229.7	235.7	240.5
25°	303.0	286.8	280.2	272.4	251.3	226.1	214.0	208.0	205.0	208.6	211.6
27.5°	266.9	251.9	245.9	240.5	220.1	202.0	192.4	187.0	184.6	185.8	188.8
30°	239.9	226.7	218.8	212.2	194.8	182.2	173.8	168.3	165.9	165.9	168.9
32.5°	211.6	204.4	197.2	188.8	172.6	164.1	155.7	149.7	147.3	147.9	150.3
35°	176.2	173.8	175.6	167.7	153.9	146.7	138.3	131.7	129.9	130.5	132.9
37.5°	156.3	145.5	152.1	147.9	140.1	130.5	119.6	113.6	110.6	112.4	113.6
40°	143.7	130.5	125.7	129.9	128.7	113.0	103.4	97.4	95.0	95.6	96.8
42.5°	132.9	117.2	106.4	105.8	113.0	98.6	88.4	83.0	80.0	80.0	81.2
45°	122.7	105.8	92.6	82.4	95.0	83.6	74.0	69.1	65.5	65.5	66.1
47.5°	114.8	96.2	80.6	67.3	71.5	68.5	60.7	55.9	52.3	52.3	52.9
50°	107.6	86.6	69.7	56.5	53.5	56.5	49.3	43.9	41.5	40.9	42.1
52.5°	99.8	77.0	59.5	48.1	42.1	42.7	38.5	34.9	31.9	31.9	33.1
55°	92.0	69.1	51.7	40.9	34.9	31.9	30.7	28.3	25.9	25.9	27.1
57.5°	84.2	60.7	43.9	33.7	27.7	25.3	25.3	23.4	21.6	21.6	22.8
60°	77.0	52.3	36.1	27.7	21.6	21.0	21.6	19.8	18.6	18.6	19.8
62.5°	68.5	44.5	29.5	22.8	17.4	16.8	18.6	17.4	16.2	16.2	17.4
65°	58.3	37.9	23.4	17.4	13.2	13.2	15.6	14.4	13.2	13.2	14.4
67.5°	49.3	31.9	18.0	12.6	9.6	10.2	13.2	12.0	11.4	11.4	12.6
70°	40.9	24.7	12.6	7.8	5.4	7.8	10.2	10.2	10.2	10.2	11.4
72.5°	30.7	16.8	7.2	3.0	2.4	5.4	8.4	9.6	9.0	9.0	10.8
75°	19.8	9.6	2.4	0.0	0.0	3.0	6.6	7.8	7.8	7.2	9.0
77.5°	11.4	3.0	0.0	0.0	0.0	0.0	4.2	3.6	3.0	2.4	4.2
80°	3.0	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°	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9
2.5°	3751.7	3822.7	3922.5	4028.3	4191.2	4320.5	4447.3	4556.2	4598.2	4615.7
5°	2969.5	3073.5	3219.6	3407.2	3701.2	3965.7	4233.9	4503.9	4621.1	4650.6
7.5°	2130.8	2263.7	2449.4	2684.5	3029.0	3371.7	3746.3	4142.5	4324.1	4369.8
10°	1577.0	1739.4	1952.2	2199.9	2528.8	2881.1	3289.4	3742.1	3949.5	4010.2
12.5°	1118.9	1338.3	1623.3	1924.6	2209.5	2524.0	2937.0	3436.1	3653.7	3719.2
15°	657.2	869.4	1206.7	1610.1	1975.1	2293.7	2713.4	3279.1	3519.0	3585.2
17.5°	377.0	482.8	737.7	1187.4	1682.9	2124.2	2643.0	3318.2	3600.8	3662.1
20°	288.0	321.7	425.1	764.8	1341.4	1957.6	2643.0	3539.5	3887.6	3977.8
22.5°	251.9	276.6	318.7	456.3	987.2	1779.1	2673.7	3859.3	4314.5	4414.3
25°	223.7	245.9	282.0	343.3	673.4	1566.8	2746.4	4251.9	4817.1	4946.4
27.5°	200.2	221.3	253.7	300.6	460.5	1310.7	2844.4	4712.5	5371.4	5474.8
30°	179.2	199.0	228.5	261.5	355.3	1020.3	2928.0	5146.6	5806.7	5918.0
32.5°	159.3	177.4	203.8	228.5	291.0	754.6	2937.0	5490.5	6168.1	6278.7
35°	140.7	156.9	181.0	200.2	241.1	595.8	2796.9	5788.7	6529.4	6675.5
37.5°	122.7	138.3	159.3	173.8	212.2	485.8	2582.9	6121.2	6993.0	7128.2
40°	105.8	119.6	141.3	150.9	200.8	373.4	2350.2	6469.9	7447.5	7571.4
42.5°	90.2	103.4	124.5	143.1	176.2	279.0	2098.9	6797.0	7856.3	7986.2
45°	75.2	89.0	110.0	151.5	146.1	208.6	1830.2	7014.0	8179.2	8320.5
47.5°	60.7	76.4	105.2	144.3	116.6	153.3	1617.3	7219.6	8423.9	8563.4
50°	48.7	64.3	118.4	128.7	95.6	117.2	1528.3	7403.6	8584.4	8718.5
52.5°	39.7	54.1	111.8	98.6	80.0	96.8	1576.4	7701.8	8732.9	8817.1
55°	33.1	42.7	67.3	68.5	67.9	82.4	1636.0	8129.9	9117.1	9156.8
57.5°	28.9	34.3	46.9	52.9	57.1	73.4	1637.2	8744.4	9711.8	9736.4
60°	24.7	30.1	39.1	42.7	49.3	65.5	1577.6	8959.0	9945.6	10027.4
62.5°	21.6	26.5	32.5	35.5	41.5	58.9	1438.2	8648.2	9624.6	9763.5
65°	19.2	24.0	27.1	30.1	36.7	52.9	1208.5	8026.5	9091.9	9236.8
67.5°	16.8	21.0	24.0	27.1	33.1	46.9	889.8	7304.4	8480.4	8600.7
70°	15.0	18.6	21.6	24.0	28.9	39.7	539.9	6198.1	7635.1	7685.0
72.5°	14.4	16.8	19.8	21.6	25.3	34.9	273.6	4555.0	6103.7	6184.9
75°	12.6	15.0	18.0	19.2	22.2	30.1	111.2	2991.7	4423.3	4553.8
77.5°	10.2	13.8	16.2	17.4	19.2	24.7	56.5	1911.9	3104.2	3188.4
80°	3.6	10.2	13.8	14.4	16.2	18.0	37.3	1046.8	1800.7	1836.8
82.5°	0.0	6.6	10.8	10.2	11.4	13.8	24.0	497.8	1188.6	1201.9
85°	0.0	3.0	8.4	6.6	4.8	9.6	8.4	108.8	623.5	649.3
87.5°	0.0	0.0	0.6	3.0	2.4	3.6	1.2	0.6	56.5	71.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)