

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: P319928

Luminaire Tested: **GAN-SA4C-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22673 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

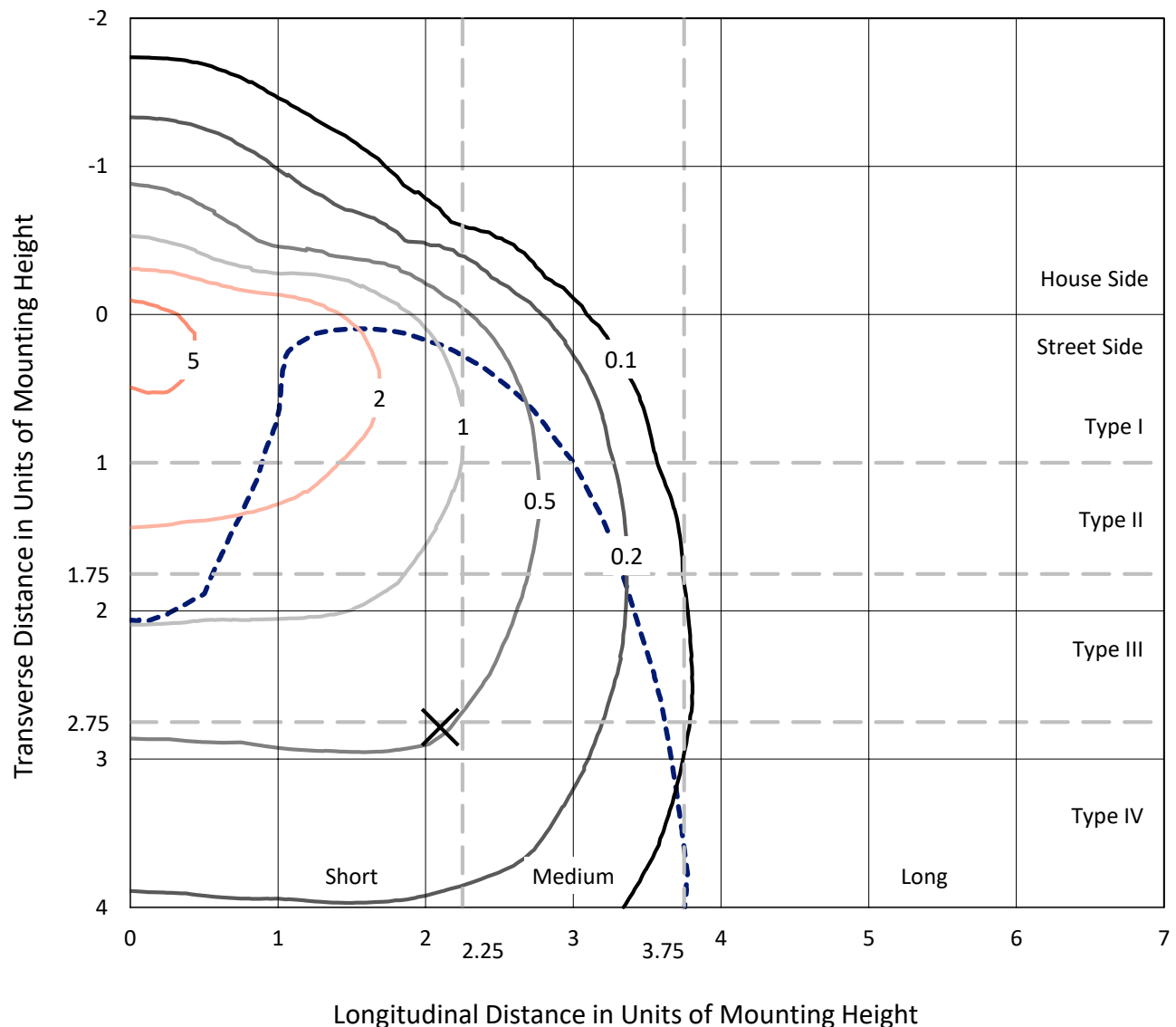
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

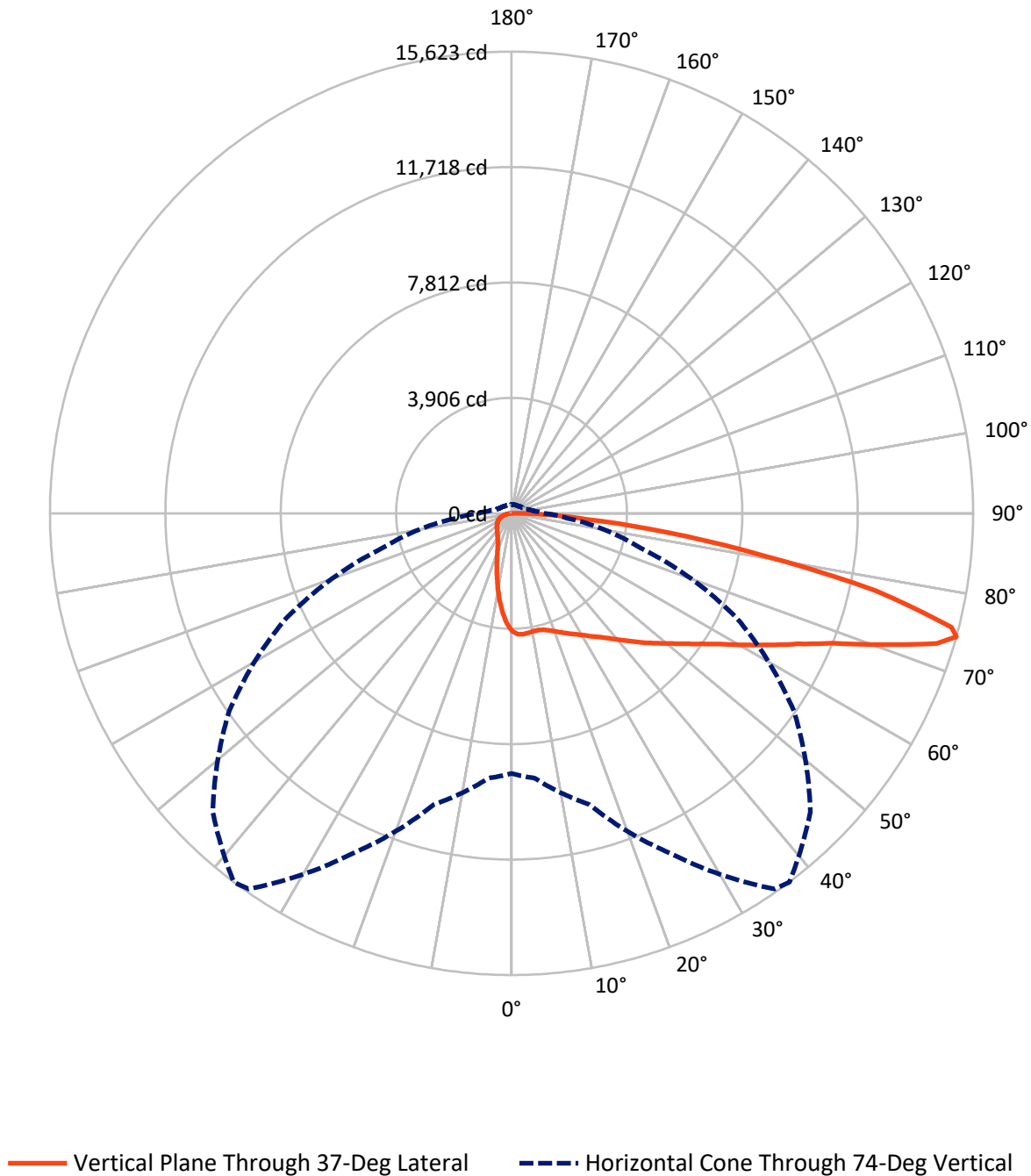
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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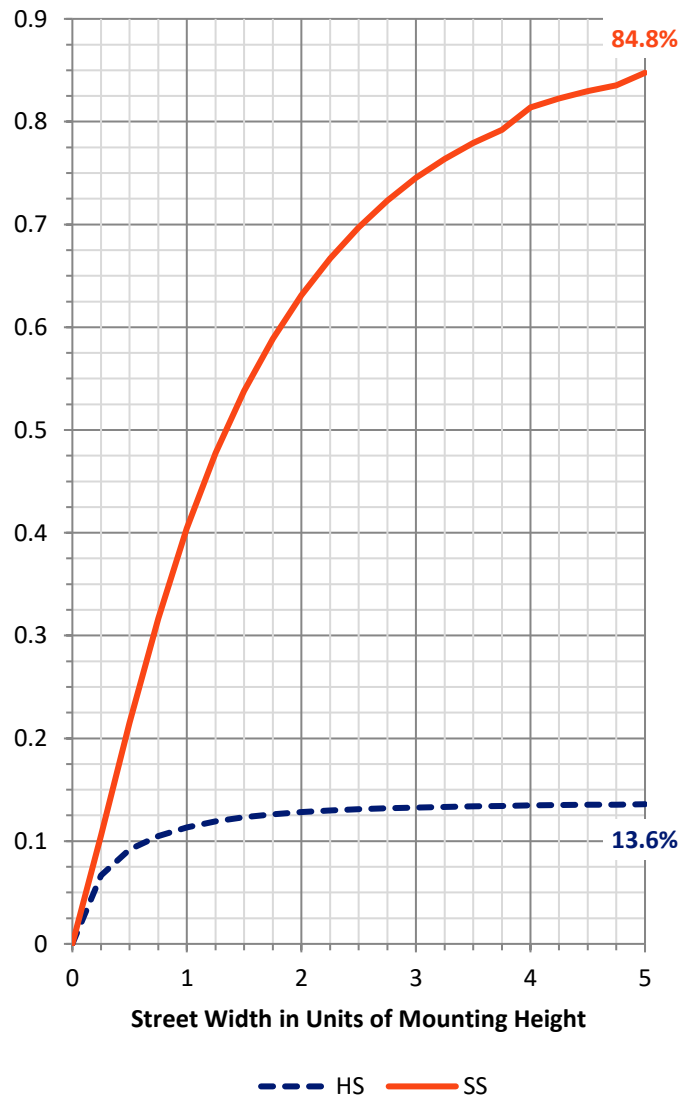
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3119.7	0.0	3119.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	19553.4	0.0	19553.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	22673.0	0.0	22673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.8	1.6
10°-20°	901.7	4.0
20°-30°	1389.4	6.1
30°-40°	2020.4	8.9
40°-50°	2973.7	13.1
50°-60°	4176.0	18.4
60°-70°	5285.6	23.3
70°-80°	4654.1	20.5
80°-90°	920.2	4.1
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°	22673.0	100.0
0°-180°	22673.0	100.0

Coefficient of Utilization



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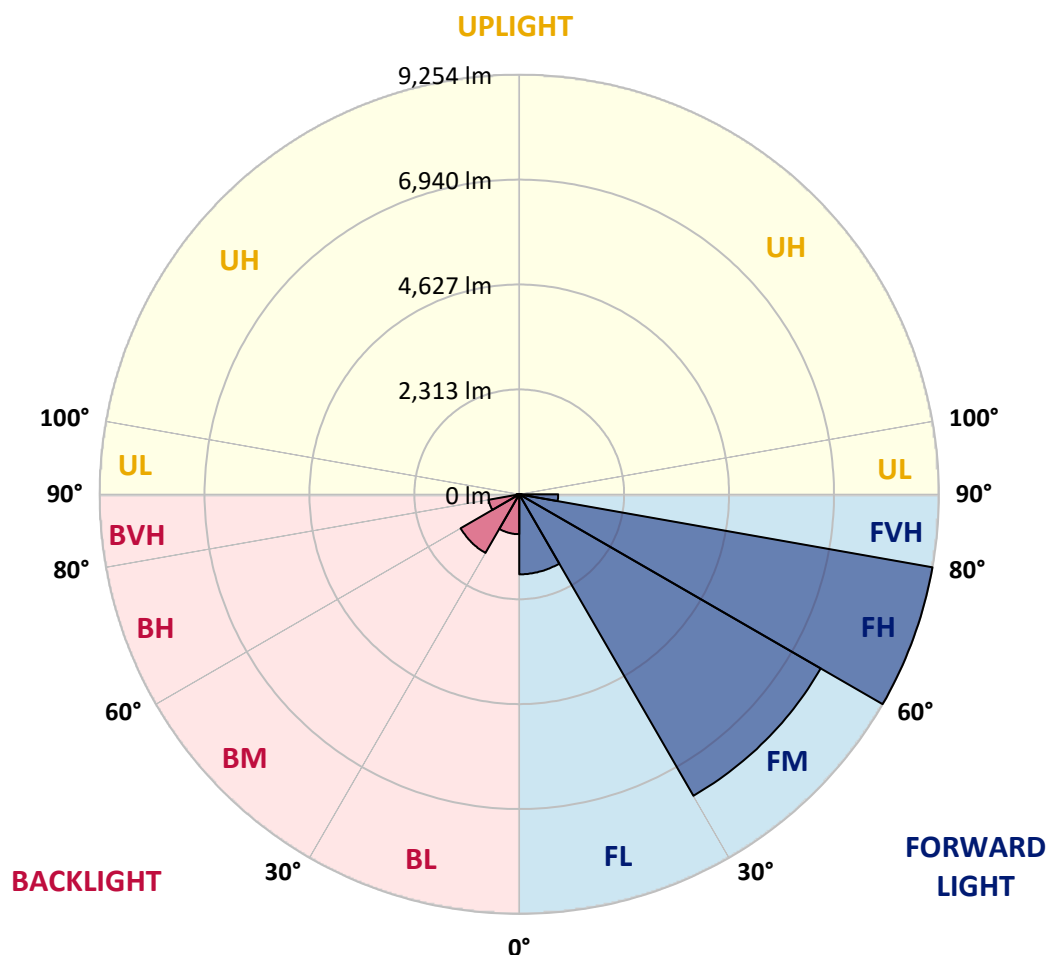
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1764.2	7.8			
FM	(30°-60°)	7677.3	33.9			
FH	(60°-80°)	9254.0	40.8			G4/12000
FVH	(80°-90°)	857.9	3.8			G5
BL	(0°-30°)	878.7	3.9	B2/1000		
BM	(30°-60°)	1492.9	6.6	B2/2500		
BH	(60°-80°)	685.7	3.0	B2/1000		G2/1000
BVH	(80°-90°)	62.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9
2.5°	4131.5	4132.3	4131.5	4125.1	4109.9	4097.1	4086.7	4071.6	4038.0	4012.5	3974.1
5°	4170.6	4165.8	4162.6	4150.6	4126.7	4112.3	4092.3	4063.6	4008.5	3957.4	3895.1
7.5°	4152.2	4146.6	4139.5	4125.1	4097.9	4085.9	4058.0	4020.5	3954.2	3887.1	3797.6
10°	4095.5	4093.9	4090.7	4087.5	4064.4	4054.8	4029.2	3989.3	3923.8	3842.4	3737.7
12.5°	4032.4	4036.4	4049.2	4066.0	4055.6	4050.8	4034.8	4007.7	3940.6	3852.7	3726.5
15°	3992.5	4003.7	4038.0	4081.9	4090.7	4089.1	4085.1	4067.6	3996.5	3899.1	3752.1
17.5°	3978.9	3997.3	4062.8	4135.5	4161.0	4166.6	4168.2	4137.9	4058.8	3955.8	3778.5
20°	4003.7	4026.8	4122.7	4222.5	4263.2	4266.4	4259.3	4206.5	4117.9	4004.5	3792.8
22.5°	4078.8	4099.5	4219.3	4331.9	4378.3	4383.0	4361.5	4281.6	4180.2	4062.0	3812.8
25°	4223.3	4248.9	4368.7	4481.3	4505.2	4506.0	4474.9	4375.9	4261.6	4142.6	3855.9
27.5°	4411.8	4437.4	4545.2	4655.4	4642.6	4635.4	4593.1	4494.1	4367.9	4253.7	3932.6
30°	4621.8	4649.8	4752.0	4830.3	4799.9	4785.6	4751.2	4623.4	4515.6	4405.4	4050.0
32.5°	4839.1	4864.6	4954.1	5007.6	4969.3	4962.9	4911.0	4794.4	4708.1	4637.0	4240.1
35°	5061.9	5080.3	5168.1	5198.5	5147.4	5145.8	5131.4	5024.4	4970.1	5003.6	4516.4
37.5°	5289.5	5294.3	5369.4	5371.0	5355.8	5362.2	5377.4	5310.3	5325.5	5430.1	4875.8
40°	5492.4	5505.2	5559.5	5576.2	5602.6	5625.0	5700.8	5656.9	5774.3	5959.6	5323.1
42.5°	5642.5	5667.3	5754.3	5797.5	5882.9	5918.1	6025.1	6065.8	6302.2	6580.2	5855.0
45°	5769.5	5807.9	5947.6	6036.3	6180.8	6242.3	6395.7	6532.2	6898.8	7253.4	6414.8
47.5°	5906.9	5955.6	6130.5	6299.8	6496.3	6565.8	6844.5	7049.0	7535.4	7930.7	6942.7
50°	6108.9	6146.5	6317.4	6583.4	6828.5	6918.0	7303.7	7596.8	8182.3	8576.0	7400.4
52.5°	6390.9	6376.5	6521.1	6894.0	7223.1	7333.3	7794.1	8179.9	8838.0	9159.8	7786.9
55°	6674.4	6650.4	6751.9	7219.1	7683.1	7798.9	8334.0	8765.3	9461.7	9685.3	8083.2
57.5°	6989.9	6944.3	7029.8	7585.7	8207.0	8345.2	8938.6	9387.4	10075.1	10110.2	8271.7
60°	7314.9	7253.4	7349.3	8040.1	8872.3	9035.2	9646.2	9994.4	10653.3	10450.5	8332.4
62.5°	7599.2	7556.1	7703.9	8547.3	9622.2	9801.1	10341.0	10639.7	11223.6	10591.8	8113.6
65°	7847.6	7854.8	8110.4	9117.5	10458.4	10649.3	11138.1	11435.2	11672.4	10508.0	7601.6
67.5°	8143.9	8184.7	8620.7	9868.2	11511.1	11720.3	12297.8	12302.6	11923.2	10016.0	6593.7
70°	8576.0	8659.9	9322.8	10909.7	13007.8	13295.3	13740.9	12812.1	11571.0	8682.2	5188.1
72.5°	8959.4	9115.9	10069.5	12101.3	14831.9	15049.9	14585.1	12518.2	10099.0	6506.7	3232.2
74°	8803.6	8997.7	10205.3	12688.3	15518.8	15623.4	14300.0	11660.4	8420.3	4506.0	1878.4
75°	8468.2	8679.0	10007.2	12682.7	15431.7	15373.4	13611.6	10680.5	6934.8	3073.2	1249.9
77.5°	6834.1	7057.0	8432.2	10869.8	12653.2	12598.1	10456.0	7164.8	3037.3	1007.9	634.9
80°	3973.3	4143.4	5234.4	6902.8	8532.1	8631.9	6876.5	3545.2	1194.8	566.2	430.5
82.5°	1765.0	1882.4	2528.6	3523.7	5149.0	5277.5	3601.2	1857.7	738.0	344.2	258.8
85°	1158.1	1245.1	1535.0	1678.0	2451.9	2539.7	1762.6	1446.4	487.2	189.3	190.1
87.5°	833.0	916.9	1140.5	995.9	1125.3	1065.4	959.2	1338.6	195.7	107.8	63.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9
2.5°	3957.4	3944.6	3915.8	3861.5	3831.2	3805.6	3763.3	3738.5	3727.3	3726.5	3731.3
5°	3859.1	3829.6	3755.3	3664.2	3591.6	3525.3	3443.0	3393.5	3358.4	3337.6	3343.2
7.5°	3744.9	3698.6	3582.0	3436.6	3320.0	3191.4	3064.5	2988.6	2929.5	2885.6	2893.5
10°	3666.6	3602.8	3432.6	3223.4	3029.3	2842.4	2667.5	2562.9	2479.8	2415.9	2420.7
12.5°	3640.3	3554.0	3318.4	3038.9	2766.6	2511.0	2282.6	2122.0	2036.6	1963.9	1969.5
15°	3644.3	3528.5	3222.6	2872.8	2530.2	2208.3	1931.2	1743.5	1627.7	1577.4	1578.2
17.5°	3647.5	3498.9	3122.0	2694.7	2296.1	1925.6	1624.5	1434.4	1325.0	1278.7	1279.5
20°	3637.1	3451.0	2997.4	2490.2	2051.8	1666.0	1374.5	1213.2	1130.1	1094.2	1094.2
22.5°	3623.5	3394.3	2856.8	2285.0	1810.6	1440.8	1195.6	1072.6	1024.7	1000.7	999.9
25°	3629.9	3352.0	2713.0	2074.1	1588.5	1261.1	1076.6	995.1	963.2	948.0	947.2
27.5°	3664.2	3332.0	2580.5	1864.1	1394.5	1126.1	996.7	939.2	918.5	908.9	908.9
30°	3726.5	3332.0	2442.3	1685.2	1233.1	1026.3	935.2	896.1	881.7	875.3	875.3
32.5°	3835.2	3350.4	2308.9	1507.9	1104.5	948.0	884.1	857.8	846.6	843.4	843.4
35°	4022.0	3412.7	2178.7	1340.2	1000.7	884.1	835.4	820.2	812.2	811.4	813.8
37.5°	4284.8	3539.7	2056.5	1216.4	927.2	832.2	794.7	782.7	777.9	781.9	785.1
40°	4615.5	3712.2	1945.5	1104.5	871.3	790.7	757.1	749.1	746.7	752.3	757.1
42.5°	5014.8	3945.4	1854.5	1023.9	828.2	755.5	725.2	715.6	713.2	719.6	726.0
45°	5446.9	4196.2	1790.6	964.0	794.7	729.2	697.2	686.8	682.1	685.2	692.4
47.5°	5839.8	4433.4	1765.0	921.7	762.7	706.8	672.5	659.7	651.7	650.1	655.7
50°	6171.2	4609.9	1777.0	896.1	737.2	682.1	648.5	634.1	622.2	615.0	619.0
52.5°	6412.4	4720.9	1788.2	884.9	717.2	654.9	622.2	608.6	592.6	580.6	580.6
55°	6587.3	4746.4	1763.4	876.1	702.0	625.4	592.6	579.8	563.9	550.3	548.7
57.5°	6656.0	4674.6	1671.6	863.4	691.6	597.4	561.5	551.9	538.3	522.3	521.5
60°	6563.4	4452.5	1494.3	836.2	678.1	574.2	530.3	523.9	517.5	502.4	501.6
62.5°	6191.2	3965.3	1265.1	781.1	650.9	549.5	501.6	504.8	505.6	495.2	493.6
65°	5516.3	3296.1	1041.5	709.2	610.2	519.9	472.0	487.2	496.0	494.4	492.0
67.5°	4535.6	2565.3	882.5	633.3	556.7	479.2	440.1	457.6	464.8	470.4	468.8
70°	3366.3	1809.0	730.0	553.5	492.0	431.3	398.5	407.3	402.5	408.9	411.3
72.5°	1876.8	1085.4	595.0	473.6	424.9	375.4	352.2	350.6	340.2	340.2	340.2
74°	1126.1	796.3	523.1	424.1	384.2	338.6	318.7	311.5	301.9	302.7	301.9
75°	905.7	684.5	480.0	391.3	355.4	317.1	297.1	287.5	280.3	280.3	279.5
77.5°	571.8	519.9	386.6	311.5	284.3	261.2	247.6	234.8	234.8	234.0	233.2
80°	432.1	413.7	301.1	235.6	218.0	200.5	191.7	186.1	186.1	188.5	187.7
82.5°	296.3	311.5	211.6	164.5	155.7	143.0	141.4	142.2	139.8	136.6	135.8
85°	216.4	234.0	143.0	103.8	95.0	87.1	93.4	96.6	92.6	85.5	82.3
87.5°	83.1	153.3	76.7	43.1	39.9	34.3	39.9	41.5	44.7	35.1	35.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)