

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: P319607

Luminaire Tested: **GAN-SA3C-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18060 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

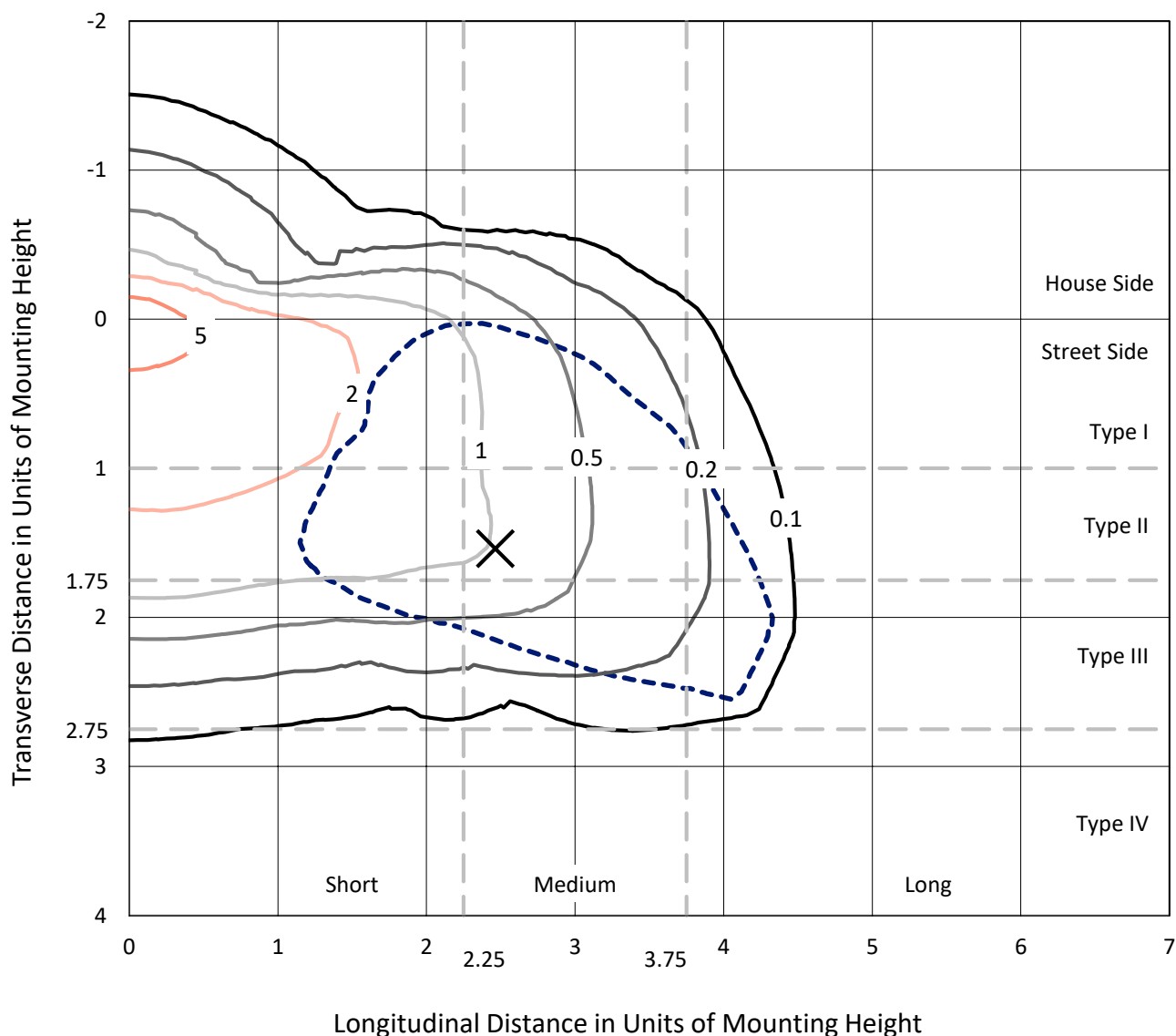
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

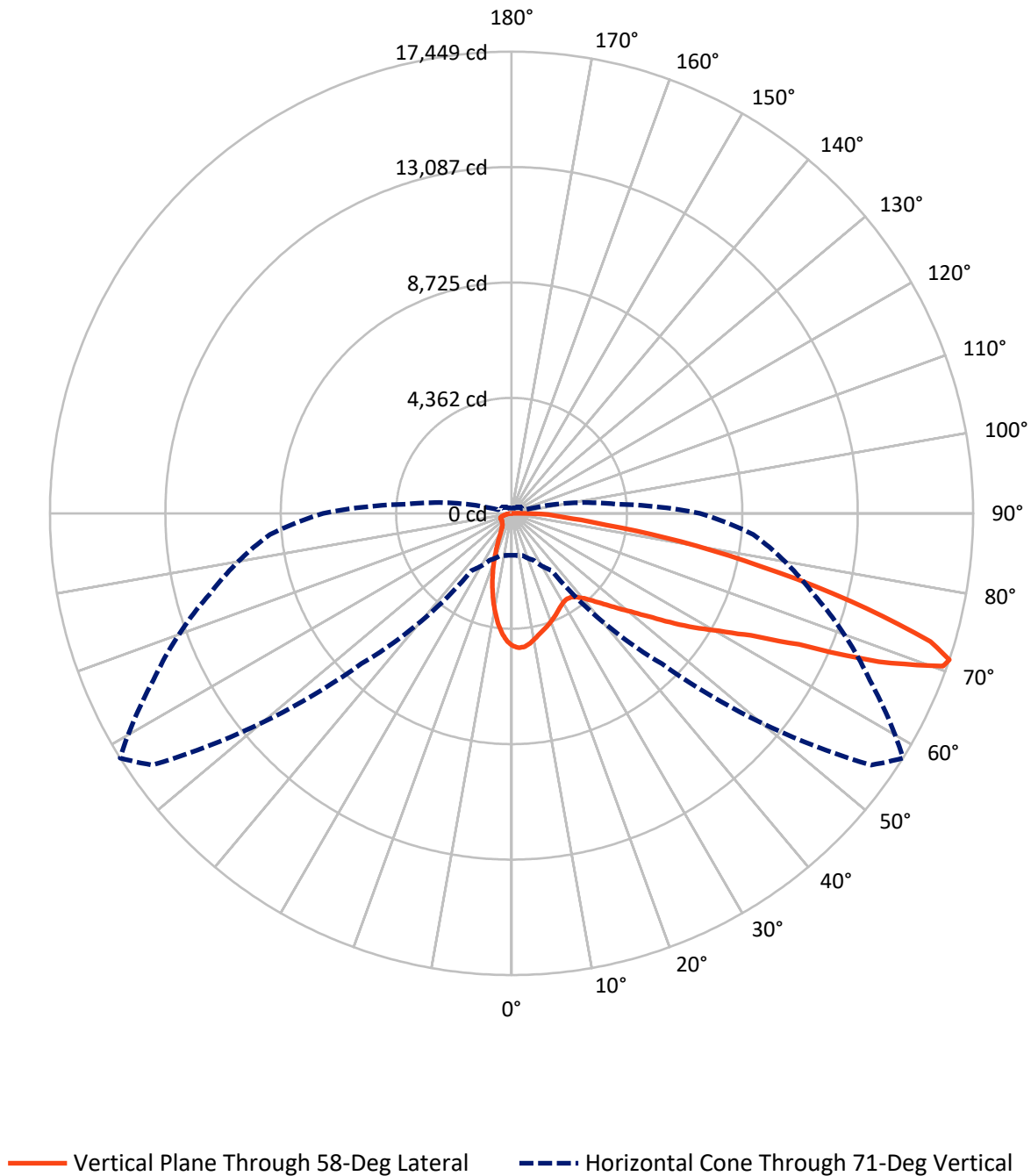
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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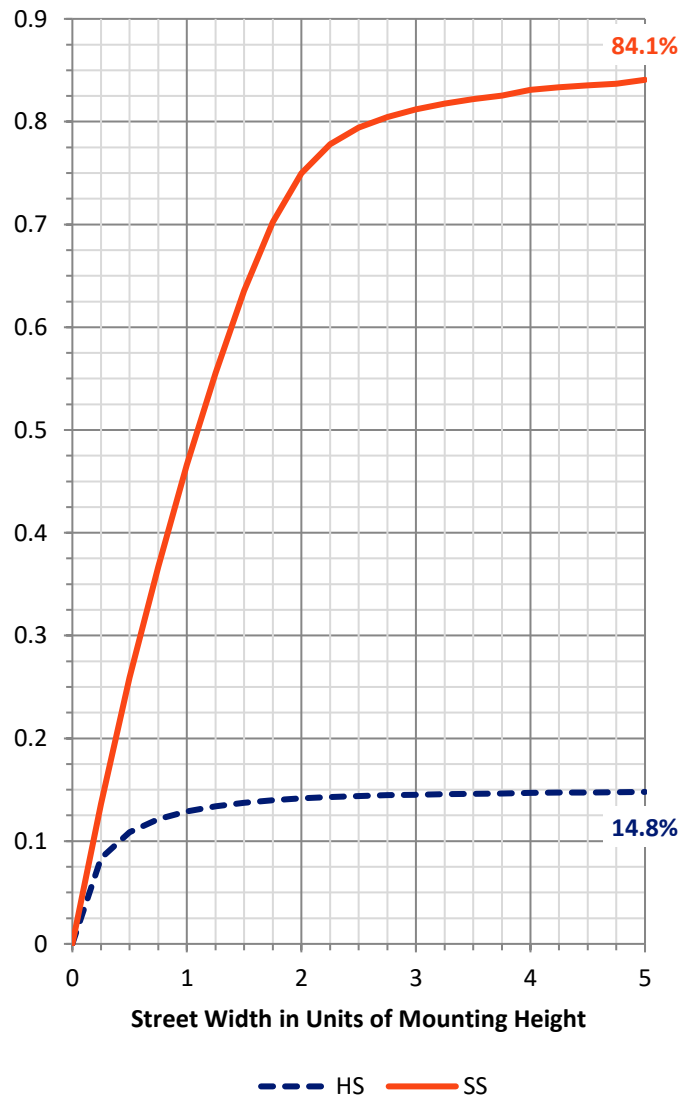
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2700.1	0.0	2700.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	15359.9	0.0	15359.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	18060.0	0.0	18060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.7	2.4
10°-20°	959.9	5.3
20°-30°	1219.9	6.8
30°-40°	1553.9	8.6
40°-50°	2203.6	12.2
50°-60°	3410.1	18.9
60°-70°	4642.4	25.7
70°-80°	3097.0	17.1
80°-90°	541.5	3.0
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°	18060.0	100.0
0°-180°	18060.0	100.0

Coefficient of Utilization



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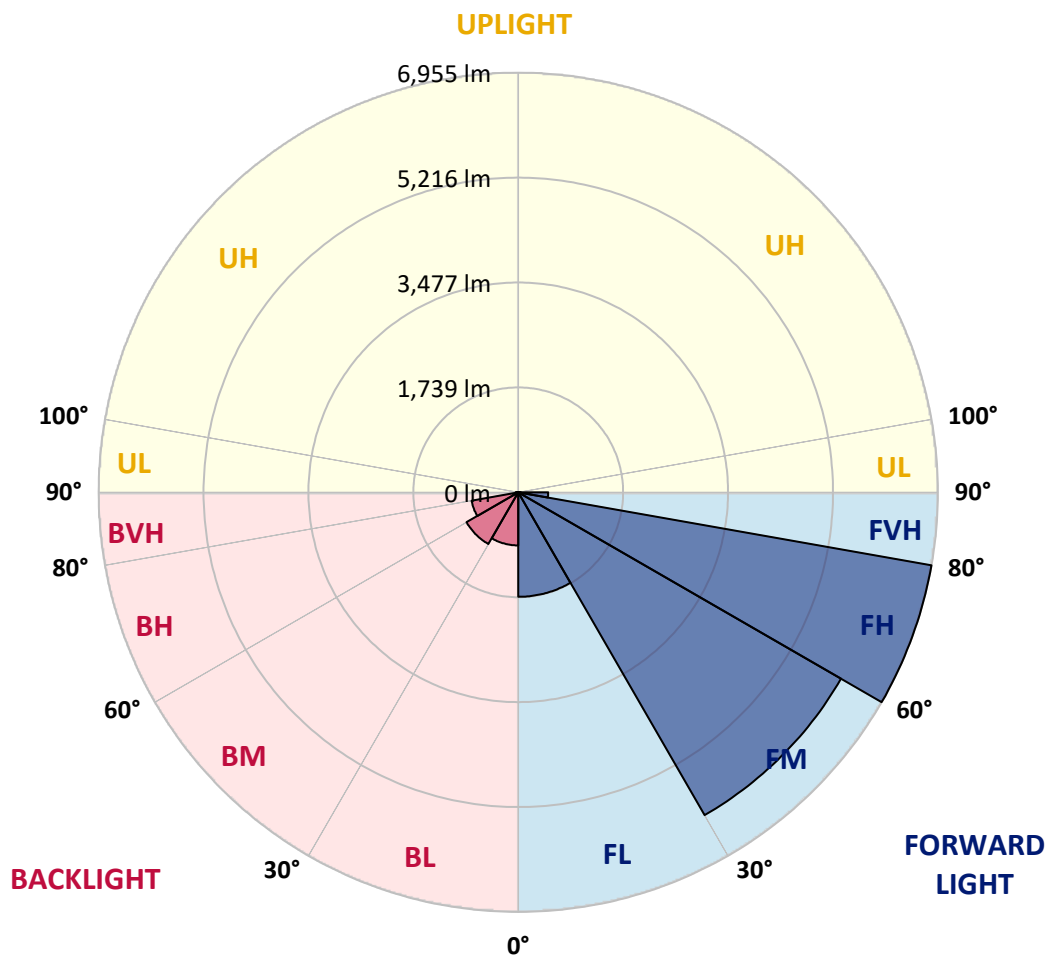
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1731.3	9.6			
FM	(30°-60°)	6177.4	34.2			
FH	(60°-80°)	6954.7	38.5			G3/7500
FVH	(80°-90°)	496.5	2.7			G3/500
BL	(0°-30°)	880.2	4.9	B2/1000		
BM	(30°-60°)	990.2	5.5	B1/1000		
BH	(60°-80°)	784.8	4.3	B2/1000		G2/1000
BVH	(80°-90°)	45.0	0.2			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°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5003.8	5003.8	5003.8	5003.8	5003.8	5003.8	5003.8	5003.8	5003.8	5003.8	5003.8
2.5°	5136.6	5129.6	5132.2	5127.1	5115.2	5103.2	5085.6	5088.8	5064.2	5027.7	4982.4
5°	5039.7	5037.2	5056.0	5066.7	5075.5	5068.6	5063.6	5069.9	5034.0	4983.7	4905.1
7.5°	4836.5	4808.8	4832.7	4868.6	4902.5	4928.3	4962.3	4966.7	4944.1	4891.2	4788.0
10°	4547.7	4521.3	4556.5	4612.5	4680.5	4742.1	4810.7	4823.3	4827.7	4779.9	4654.7
12.5°	4248.3	4228.2	4263.4	4342.0	4454.6	4549.6	4659.1	4678.0	4717.0	4684.9	4531.4
15°	3980.3	3972.7	4015.5	4092.9	4222.5	4367.8	4525.7	4560.3	4626.4	4615.7	4435.1
17.5°	3748.8	3746.9	3779.6	3860.8	4004.2	4187.9	4393.0	4451.5	4549.6	4562.2	4355.9
20°	3576.4	3572.6	3595.3	3655.0	3802.9	4011.1	4249.5	4330.1	4471.6	4515.6	4274.1
22.5°	3483.9	3483.3	3483.9	3512.2	3633.0	3826.8	4109.9	4208.0	4395.5	4478.5	4183.5
25°	3468.2	3466.3	3452.5	3449.3	3517.9	3672.7	3971.5	4079.7	4323.1	4452.7	4097.3
27.5°	3509.1	3511.6	3493.4	3463.8	3477.6	3571.4	3851.3	3967.1	4265.3	4447.7	4037.5
30°	3594.0	3592.8	3577.0	3546.2	3519.2	3533.6	3765.8	3881.5	4226.3	4469.7	3996.6
32.5°	3687.8	3694.7	3691.5	3674.5	3634.3	3576.4	3740.0	3853.2	4214.9	4522.6	3979.0
35°	3800.4	3807.9	3830.6	3843.8	3796.6	3703.5	3795.3	3893.5	4247.7	4622.0	4007.3
37.5°	3907.3	3926.8	3990.4	4046.3	4006.1	3902.3	3942.5	4012.4	4348.9	4778.6	4083.5
40°	4030.6	4047.6	4151.4	4270.3	4264.0	4156.4	4179.7	4226.3	4527.6	5003.2	4221.2
42.5°	4152.0	4186.0	4336.4	4505.0	4553.4	4458.4	4495.5	4520.1	4779.2	5300.8	4461.5
45°	4313.7	4350.2	4559.1	4762.3	4875.5	4822.0	4881.2	4890.6	5095.7	5705.9	4810.7
47.5°	4558.4	4599.9	4843.4	5056.7	5229.7	5235.3	5332.8	5329.1	5490.7	6169.5	5250.4
50°	4939.7	4999.4	5198.8	5398.3	5608.4	5725.4	5855.6	5837.4	5964.5	6663.4	5756.9
52.5°	5439.2	5466.8	5614.7	5761.9	6023.0	6285.3	6472.1	6455.8	6501.7	7171.1	6331.8
55°	5956.9	5977.7	6038.7	6119.2	6470.2	6898.0	7293.1	7267.3	7150.9	7698.2	6899.9
57.5°	6422.4	6464.6	6506.7	6540.1	6920.7	7538.5	8132.9	8134.8	7855.5	8266.9	7486.9
60°	6494.8	6531.9	6810.6	7073.6	7691.3	8392.8	9031.9	9013.1	8584.6	8884.1	8141.1
62.5°	5741.1	5824.8	6290.3	6989.9	8433.7	9955.4	10178.8	10155.5	9456.6	9644.7	8903.0
65°	4114.3	4209.3	4771.1	5822.3	8073.8	11677.3	12248.5	11935.2	10645.6	10580.1	9795.0
67.5°	2373.6	2396.2	2639.7	3483.9	6147.5	11767.2	15405.9	14967.4	12492.0	11641.4	10231.6
70°	1755.2	1754.5	1812.4	2144.0	3326.7	9603.8	16907.6	17300.8	14435.9	11990.6	9614.5
71°	1587.2	1589.1	1653.9	1951.5	2634.7	8038.6	16588.6	17449.2	14947.9	11818.2	9167.8
72.5°	1357.6	1363.9	1453.8	1750.1	2216.3	5543.6	15214.7	16558.4	15190.8	11392.9	8468.9
75°	1029.8	1044.3	1168.9	1475.2	2025.7	2811.4	11166.4	13222.3	13494.7	10052.9	6292.8
77.5°	734.8	751.1	892.1	1240.6	1925.7	2118.8	7478.1	9644.7	9930.9	6442.6	2838.5
80°	464.3	483.8	590.1	987.1	1809.3	2011.8	4699.3	6482.8	5415.3	2061.5	722.2
82.5°	272.4	287.5	366.1	644.8	1477.7	1937.6	2764.9	3593.4	2107.5	622.8	328.4
85°	157.9	164.8	228.4	410.8	1073.2	1828.8	2031.4	2008.7	914.7	304.5	155.4
87.5°	73.6	81.8	135.3	214.5	595.8	1325.5	1605.5	1387.2	568.7	142.8	73.0
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°	5003.8	5003.8	5003.8	5003.8	5003.8	5003.8	5003.8	5003.8	5003.8	5003.8	5003.8
2.5°	4960.4	4949.7	4905.1	4865.4	4823.9	4769.8	4710.0	4702.5	4666.0	4672.9	4660.3
5°	4862.3	4835.2	4727.7	4630.1	4515.0	4411.8	4299.9	4248.3	4174.1	4169.0	4150.1
7.5°	4722.0	4671.7	4505.0	4320.0	4135.0	3958.9	3784.6	3670.1	3553.1	3503.4	3499.0
10°	4564.1	4478.5	4233.2	3959.5	3692.8	3435.5	3186.4	3002.0	2836.0	2757.3	2754.2
12.5°	4414.4	4287.9	3951.4	3578.9	3214.1	2880.6	2539.0	2296.8	2088.6	2018.8	1989.2
15°	4287.3	4109.3	3677.1	3200.8	2758.0	2294.9	1906.2	1651.4	1458.9	1392.2	1379.6
17.5°	4164.0	3935.0	3395.9	2819.0	2283.6	1774.7	1385.3	1195.9	1093.4	1066.3	1065.7
20°	4041.3	3755.7	3102.1	2428.3	1825.0	1327.4	1065.1	980.1	945.5	942.4	937.4
22.5°	3902.3	3565.7	2793.2	2036.4	1424.3	1043.7	905.3	871.3	866.9	878.2	878.2
25°	3772.1	3377.0	2479.9	1652.6	1107.8	870.7	808.4	801.5	813.4	833.6	835.4
27.5°	3650.6	3195.2	2174.2	1311.7	887.7	766.9	741.1	749.3	770.6	793.9	794.5
30°	3550.6	3023.4	1877.2	1033.6	749.9	689.5	685.1	701.4	724.7	743.0	747.4
32.5°	3473.2	2876.9	1590.4	831.0	659.9	631.6	635.4	649.2	663.7	673.8	680.7
35°	3437.4	2751.0	1325.5	700.8	602.7	586.9	592.0	599.5	605.8	613.4	619.0
37.5°	3443.7	2653.5	1089.0	619.7	564.3	556.1	556.1	556.1	556.1	559.9	560.5
40°	3502.2	2597.5	896.5	568.1	538.5	529.7	522.8	516.5	511.5	514.0	512.7
42.5°	3651.9	2592.5	755.5	535.4	517.7	503.3	489.4	480.6	474.3	476.9	478.1
45°	3906.1	2655.4	660.6	512.1	498.2	476.2	458.6	449.2	444.8	452.9	454.2
47.5°	4235.1	2792.6	602.7	495.1	480.0	451.1	432.2	423.4	424.6	436.6	439.7
50°	4659.1	3015.3	575.0	484.4	467.4	429.7	410.2	402.6	406.4	423.4	427.2
52.5°	5124.6	3336.1	578.1	481.3	459.2	413.9	393.2	384.4	390.7	406.4	409.5
55°	5661.9	3721.7	630.4	485.7	447.3	403.9	379.3	364.2	369.3	383.7	386.3
57.5°	6258.9	4163.4	735.4	484.4	432.2	394.4	364.9	342.2	346.0	354.8	357.3
60°	6880.4	4696.8	898.3	488.2	425.3	383.1	345.4	317.1	315.8	323.4	324.6
62.5°	7626.5	5314.0	1084.6	490.7	429.7	368.7	319.6	291.9	288.1	290.0	291.3
65°	8395.3	5760.6	1014.7	480.6	443.5	356.7	296.9	267.4	260.4	259.2	259.8
67.5°	8419.2	5281.9	711.5	460.5	449.2	350.4	279.9	246.6	235.3	230.9	230.2
70°	7550.4	4291.1	554.2	439.1	426.5	340.3	264.2	229.6	212.6	205.7	205.1
71°	7126.4	3950.1	525.3	428.4	409.5	330.3	257.3	222.1	204.5	196.9	195.6
72.5°	6461.4	3541.2	490.1	411.4	376.8	304.5	244.1	211.4	193.1	184.3	182.4
75°	4637.1	2315.7	420.9	366.8	312.0	242.8	213.9	190.0	174.3	163.6	162.3
77.5°	1786.6	921.6	318.3	305.1	239.1	190.0	176.1	164.2	152.9	142.2	141.5
80°	552.3	412.1	232.1	229.6	173.0	141.5	137.1	134.0	129.6	118.3	115.8
82.5°	295.0	236.5	159.8	148.5	113.2	94.4	99.4	100.7	101.3	89.3	88.1
85°	140.9	125.2	90.0	84.3	66.1	52.8	61.0	66.1	66.7	54.7	51.0
87.5°	67.3	65.4	42.1	32.1	24.5	17.6	21.4	26.4	28.9	20.8	18.2
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)