

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: P321540

Luminaire Tested: **GAN-SA6D-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29848 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

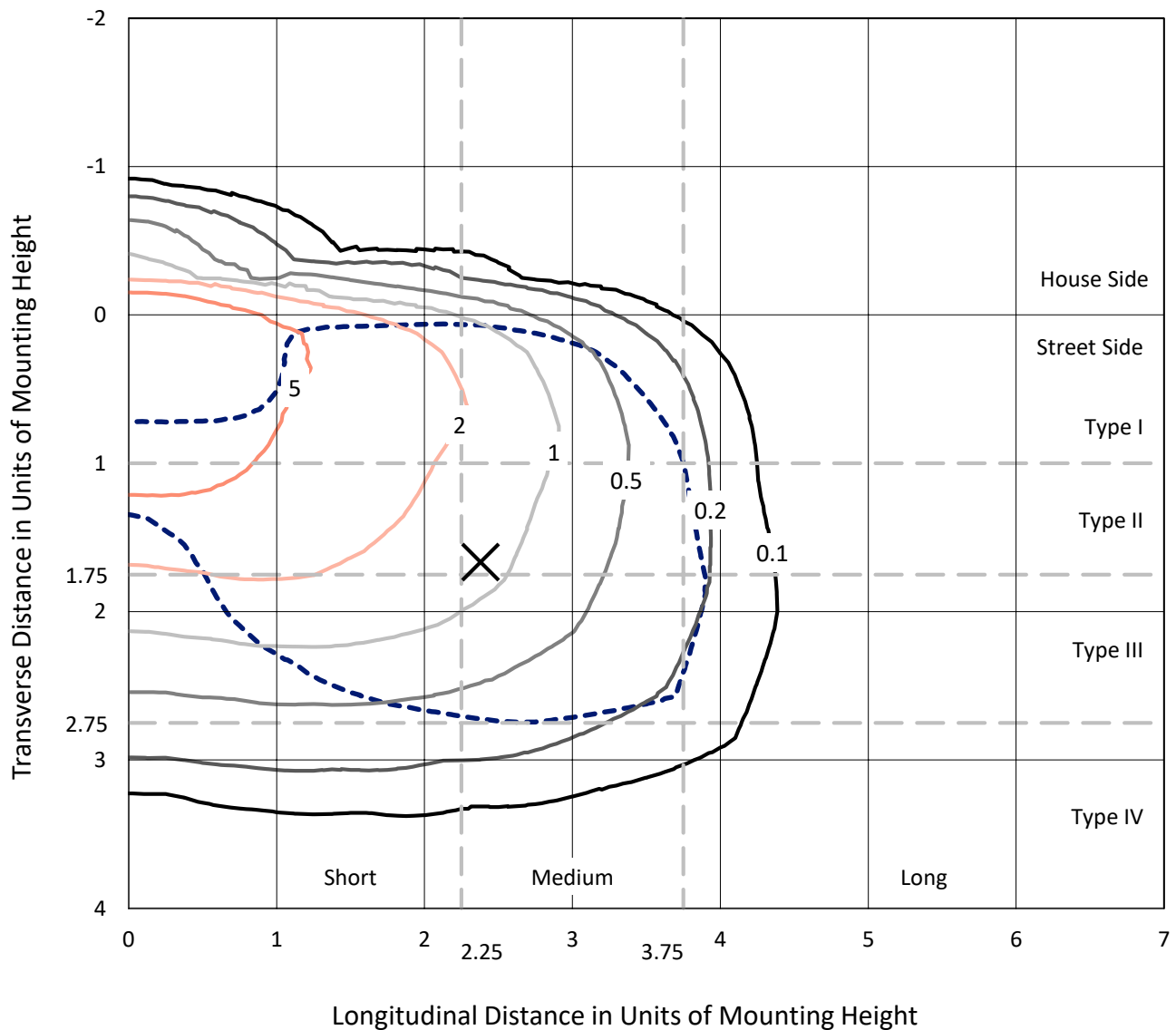
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

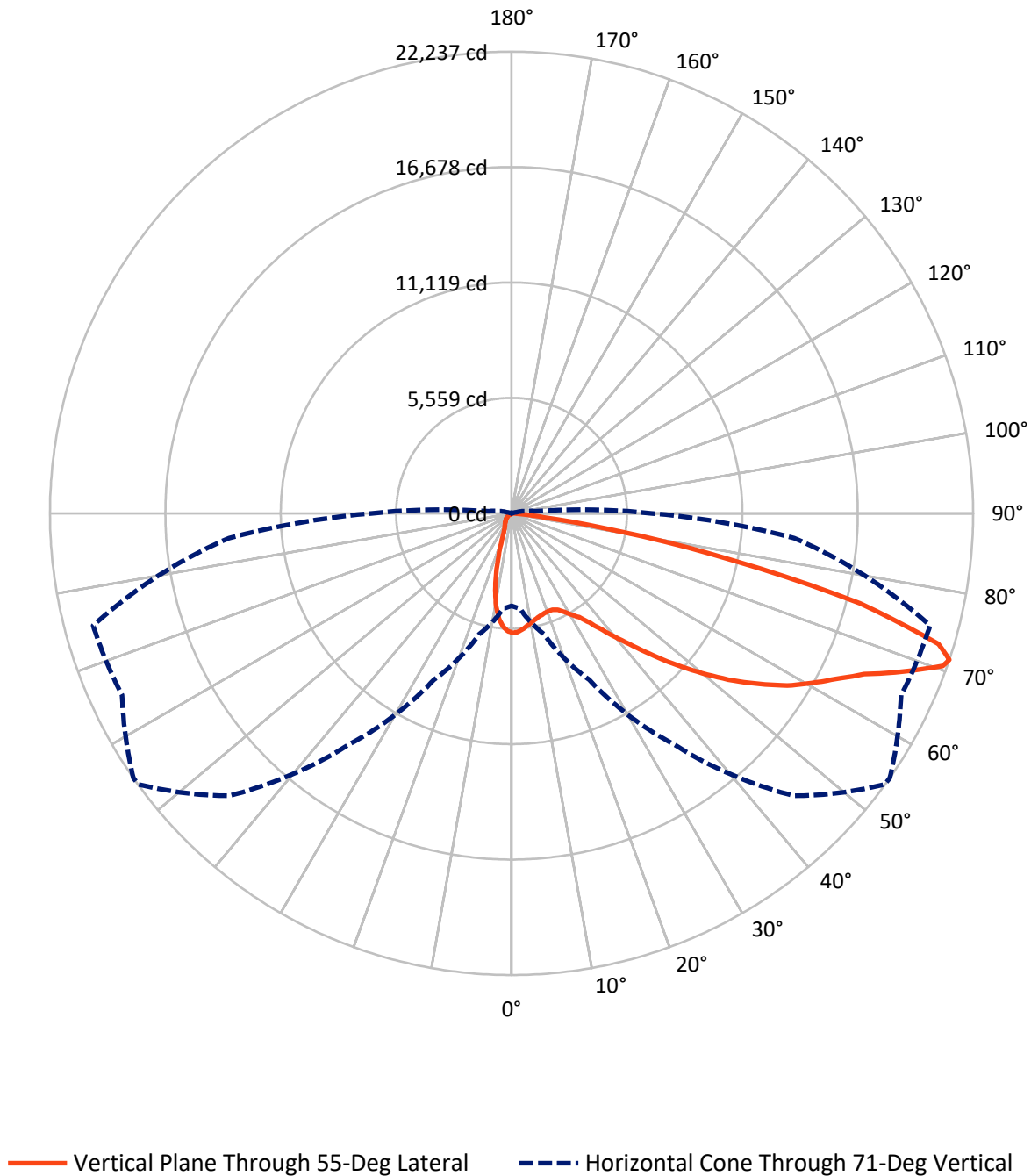
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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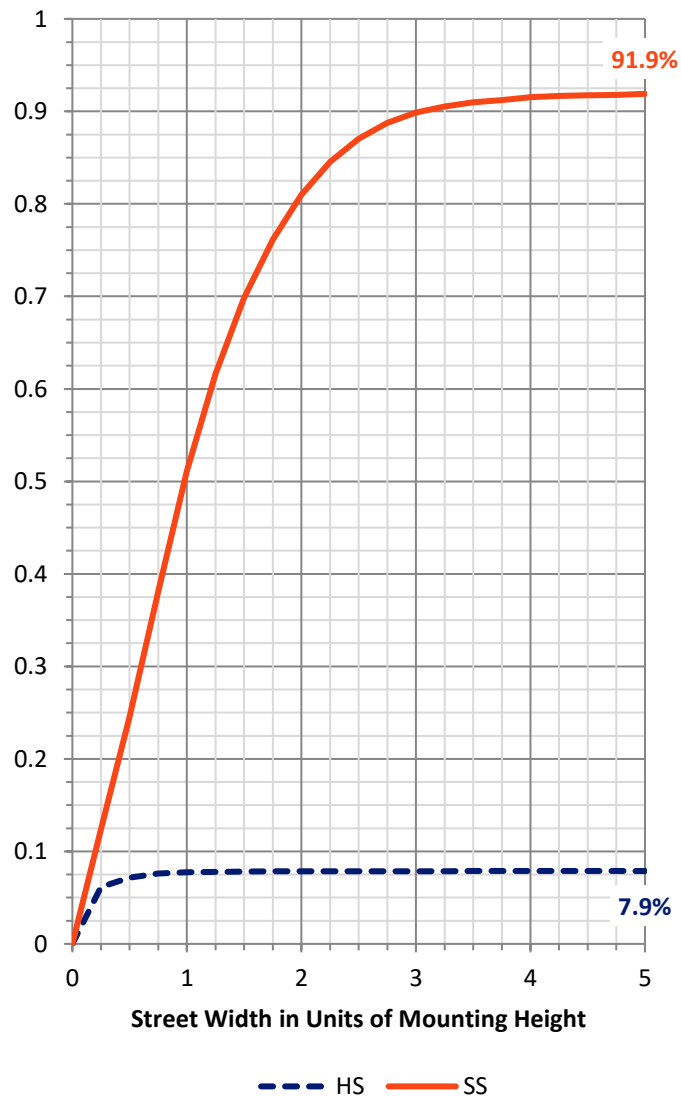
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2363.1	0.0	2363.1
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	27484.9	0.0	27484.9
	% Fixture	92.1	0.0	92.1
Total	Lumens	29848.0	0.0	29848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.8	1.6
10°-20°	1108.0	3.7
20°-30°	1780.6	6.0
30°-40°	3025.4	10.1
40°-50°	4695.8	15.7
50°-60°	6313.3	21.2
60°-70°	7723.3	25.9
70°-80°	4515.6	15.1
80°-90°	195.2	0.7
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°	29848.0	100.0
0°-180°	29848.0	100.0

Coefficient of Utilization



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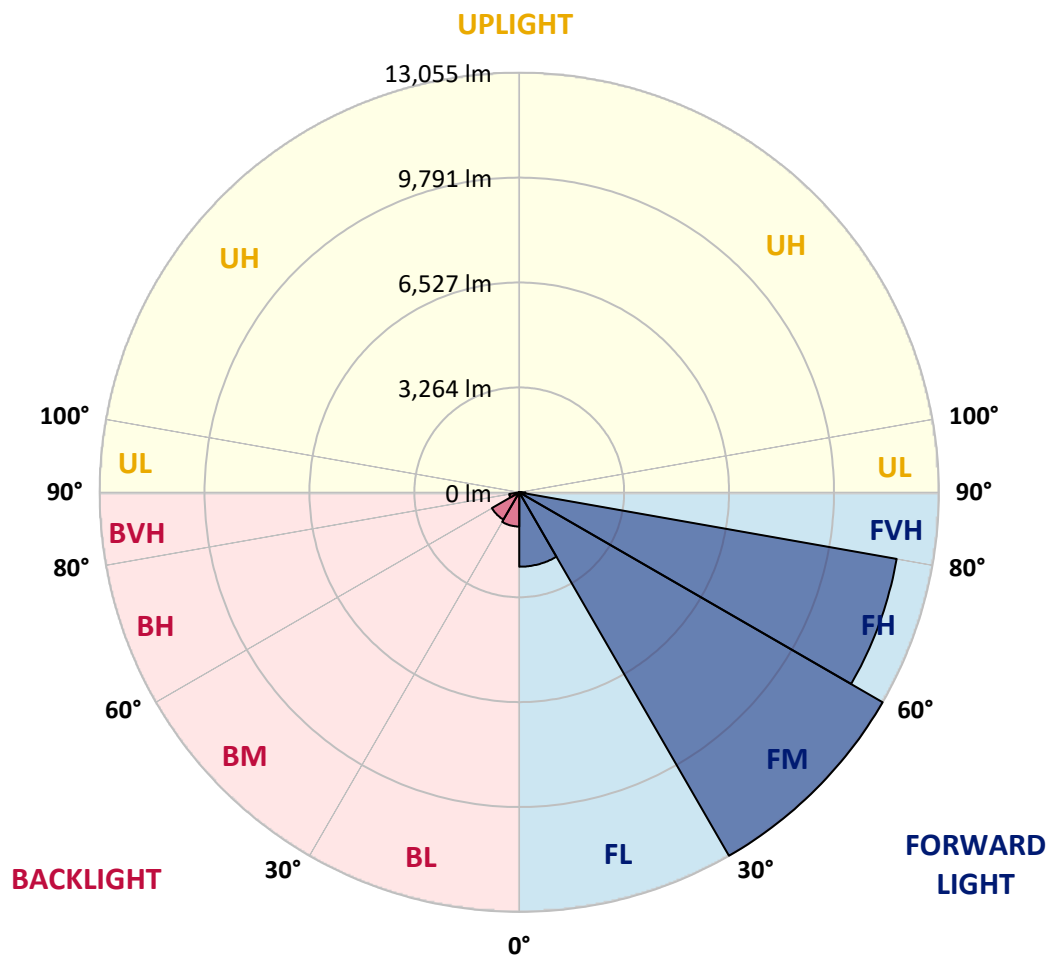
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2315.8	7.8			
FM	(30°-60°)	13054.6	43.7			
FH	(60°-80°)	11922.3	39.9			G4/12000
FVH	(80°-90°)	192.1	0.6			G2/225
BL	(0°-30°)	1063.7	3.6	B3/2500		
BM	(30°-60°)	979.8	3.3	B1/1000		
BH	(60°-80°)	316.6	1.1	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5756.3	5756.3	5756.3	5756.3	5756.3	5756.3	5756.3	5756.3	5756.3	5756.3	5756.3
2.5°	5587.4	5594.1	5618.3	5629.0	5654.4	5697.3	5718.8	5720.1	5755.0	5768.4	5779.1
5°	5192.1	5232.3	5272.5	5315.4	5393.1	5496.3	5598.1	5607.5	5720.1	5803.2	5847.4
7.5°	4851.6	4887.8	4936.1	5004.4	5114.3	5276.5	5446.7	5466.8	5679.9	5868.9	5968.1
10°	4501.8	4531.3	4601.0	4701.5	4853.0	5070.1	5299.3	5332.8	5643.7	5957.3	6131.6
12.5°	4127.9	4145.3	4229.8	4374.5	4597.0	4873.1	5174.6	5218.9	5620.9	6059.2	6324.6
15°	3843.8	3851.8	3932.2	4082.3	4337.0	4696.2	5078.1	5131.7	5626.3	6181.1	6535.0
17.5°	3771.4	3775.4	3818.3	3921.5	4146.7	4538.0	5001.7	5067.4	5642.4	6300.4	6746.7
20°	4064.9	4036.8	3992.5	3976.5	4073.0	4442.9	4956.2	5029.9	5663.8	6406.3	6937.0
22.5°	4870.4	4787.3	4603.7	4358.4	4209.7	4449.6	4968.2	5042.0	5732.2	6536.3	7156.8
25°	6065.9	5950.6	5638.4	5155.9	4692.2	4642.6	5068.8	5143.8	5864.9	6691.8	7367.3
27.5°	7426.2	7312.3	6930.3	6241.5	5450.7	5024.5	5299.3	5369.0	6061.9	6829.8	7528.1
30°	8728.9	8696.8	8246.4	7463.7	6405.0	5643.7	5596.8	5655.8	6208.0	6912.9	7655.4
32.5°	9833.3	9782.3	9420.5	8659.2	7497.3	6387.5	5946.6	5964.0	6317.9	7020.1	7821.6
35°	10857.2	10794.2	10476.6	9756.9	8617.7	7296.2	6485.4	6459.9	6557.8	7235.9	8062.8
37.5°	11751.1	11808.8	11456.3	10771.4	9622.9	8241.1	7211.8	7135.4	6933.0	7587.0	8412.6
40°	12499.0	12499.0	12315.4	11744.4	10708.4	9218.1	8033.3	7932.8	7497.3	8128.5	8856.2
42.5°	12768.4	12826.0	12894.4	12571.4	11680.1	10234.0	8948.7	8844.2	8292.0	8896.5	9416.5
45°	12784.5	12875.6	13225.4	13224.1	12558.0	11243.2	9980.7	9931.1	9310.6	9882.9	10110.7
47.5°	12558.0	12671.9	13248.2	13575.2	13253.5	12182.7	11109.2	11047.5	10507.4	11091.8	10837.1
50°	12208.2	12334.1	13004.3	13713.2	13726.7	13000.2	12298.0	12205.5	11824.9	12473.5	11587.6
52.5°	11582.3	11826.2	12785.8	13745.4	14037.6	13706.5	13429.1	13388.9	13299.1	13804.4	12185.4
55°	10243.4	10514.1	12237.7	13756.1	14325.7	14332.4	14489.2	14500.0	14680.9	15048.1	12630.3
57.5°	9610.8	9763.6	11280.7	13807.1	14753.3	15042.8	15569.5	15652.6	15932.7	16228.9	13138.3
60°	9212.8	9393.7	10809.0	13737.4	15424.7	15974.2	16570.6	16598.8	16899.0	17447.1	13825.8
62.5°	8895.1	9073.4	10511.4	13469.3	16179.3	17094.7	17549.0	17551.7	17776.8	18898.6	14607.2
65°	8111.1	8261.2	9909.7	13167.8	16677.8	18203.0	18685.5	18668.1	18851.7	20429.1	15514.5
67.5°	6977.2	7092.5	8680.7	12024.6	16490.2	19210.9	20401.0	20343.4	20120.9	21752.0	15871.0
70°	5394.4	5436.0	6841.9	10020.9	14731.8	19598.2	22058.9	22029.4	20899.6	21514.7	14564.3
71°	4458.9	4595.7	6029.7	8844.2	13553.8	19240.4	22219.7	22237.1	20703.9	20868.7	13665.0
72.5°	2589.3	2705.9	4370.5	6792.3	11507.2	17747.3	21386.1	21512.1	19789.9	18981.7	11672.1
75°	554.9	593.7	1620.3	3287.6	6329.9	12438.7	16880.2	17329.2	16129.7	12913.1	7034.9
77.5°	386.0	416.8	694.2	1491.7	2092.1	6146.3	10486.0	10992.6	9636.3	4853.0	2251.6
80°	305.6	340.4	541.5	737.1	565.6	1982.2	4911.9	5221.5	3213.9	1082.9	379.3
82.5°	170.2	202.4	422.2	398.0	217.1	376.6	1375.1	1554.7	643.3	218.5	89.8
85°	49.6	60.3	272.1	289.5	92.5	72.4	234.5	290.8	122.0	57.6	40.2
87.5°	0.0	0.0	131.3	111.2	26.8	10.7	21.4	24.1	24.1	24.1	26.8
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°	5756.3	5756.3	5756.3	5756.3	5756.3	5756.3	5756.3	5756.3	5756.3	5756.3	5756.3
2.5°	5779.1	5788.5	5755.0	5710.7	5663.8	5606.2	5545.9	5499.0	5497.6	5474.8	5452.1
5°	5850.1	5844.7	5752.3	5611.5	5445.4	5272.5	5107.6	4921.3	4859.7	4783.3	4757.8
7.5°	5981.5	5943.9	5748.3	5440.0	5075.5	4713.6	4339.7	3963.1	3802.2	3657.5	3632.0
10°	6146.3	6075.3	5722.8	5182.7	4513.9	3846.5	3282.2	2770.3	2545.1	2372.2	2364.2
12.5°	6317.9	6209.3	5651.8	4794.0	3778.1	2840.0	2189.9	1686.0	1498.4	1377.8	1388.5
15°	6497.4	6335.3	5499.0	4270.0	2940.5	1927.3	1345.6	1049.4	974.3	943.5	951.6
17.5°	6681.1	6422.4	5285.9	3638.7	2113.5	1243.7	931.5	848.4	848.4	855.1	857.7
20°	6840.5	6469.3	4972.3	2931.1	1432.7	906.0	814.9	802.8	809.5	820.2	821.6
22.5°	6998.7	6472.0	4563.5	2214.1	1002.5	793.4	776.0	770.6	774.7	786.7	788.1
25°	7127.4	6439.8	4051.5	1574.8	800.1	747.8	739.8	737.1	739.8	754.6	754.6
27.5°	7179.6	6323.2	3427.0	1107.0	717.0	696.9	694.2	696.9	700.9	711.7	713.0
30°	7185.0	6119.5	2746.1	801.5	650.0	628.6	633.9	643.3	639.3	636.6	639.3
32.5°	7198.4	5883.6	2082.7	659.4	593.7	560.2	553.5	553.5	537.4	528.1	522.7
35°	7242.6	5606.2	1510.4	592.4	536.1	497.2	471.8	442.3	411.5	395.4	391.3
37.5°	7312.3	5315.4	1081.6	548.2	485.2	440.9	392.7	340.4	296.2	284.1	284.1
40°	7439.6	5015.1	800.1	513.3	445.0	390.0	317.6	249.3	209.1	202.4	202.4
42.5°	7640.7	4698.9	638.0	482.5	410.1	337.7	242.6	180.9	151.4	147.4	146.1
45°	7849.7	4350.4	557.5	453.0	372.6	277.4	179.6	134.0	116.6	112.6	112.6
47.5°	8058.8	3979.1	518.7	424.9	336.4	215.8	134.0	105.9	97.8	97.8	99.2
50°	8235.7	3591.8	490.5	394.0	289.5	163.5	105.9	89.8	87.1	92.5	93.8
52.5°	8279.9	3211.2	455.7	355.2	231.9	124.6	87.1	79.1	79.1	79.1	79.1
55°	8253.1	2916.3	410.1	306.9	171.5	99.2	75.1	69.7	68.4	68.4	68.4
57.5°	8344.3	2742.1	328.4	238.6	123.3	80.4	65.7	61.7	59.0	57.6	57.6
60°	8527.9	2628.2	234.5	171.5	92.5	67.0	56.3	52.3	48.2	45.6	45.6
62.5°	8771.8	2529.0	174.2	127.3	71.0	53.6	46.9	42.9	37.5	34.8	34.8
65°	8959.4	2352.1	132.7	95.2	53.6	42.9	36.2	34.8	26.8	24.1	22.8
67.5°	8672.6	1963.4	107.2	69.7	40.2	33.5	28.1	26.8	16.1	13.4	13.4
70°	7438.3	1367.0	85.8	50.9	29.5	26.8	22.8	17.4	12.1	10.7	10.7
71°	6745.4	1141.9	77.7	42.9	25.5	25.5	21.4	14.7	10.7	9.4	9.4
72.5°	5603.5	810.8	65.7	33.5	22.8	26.8	22.8	13.4	10.7	9.4	8.0
75°	3252.7	339.1	45.6	22.8	17.4	32.2	29.5	12.1	8.0	6.7	6.7
77.5°	978.4	124.6	25.5	14.7	13.4	28.1	33.5	10.7	4.0	1.3	1.3
80°	178.3	53.6	16.1	9.4	9.4	17.4	25.5	5.4	0.0	0.0	0.0
82.5°	63.0	26.8	9.4	5.4	4.0	8.0	12.1	0.0	0.0	0.0	0.0
85°	36.2	18.8	5.4	2.7	0.0	1.3	2.7	0.0	0.0	0.0	0.0
87.5°	24.1	5.4	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

(END OF REPORT)