

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: P323763

Luminaire Tested: **GAN-SA9B-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34675 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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

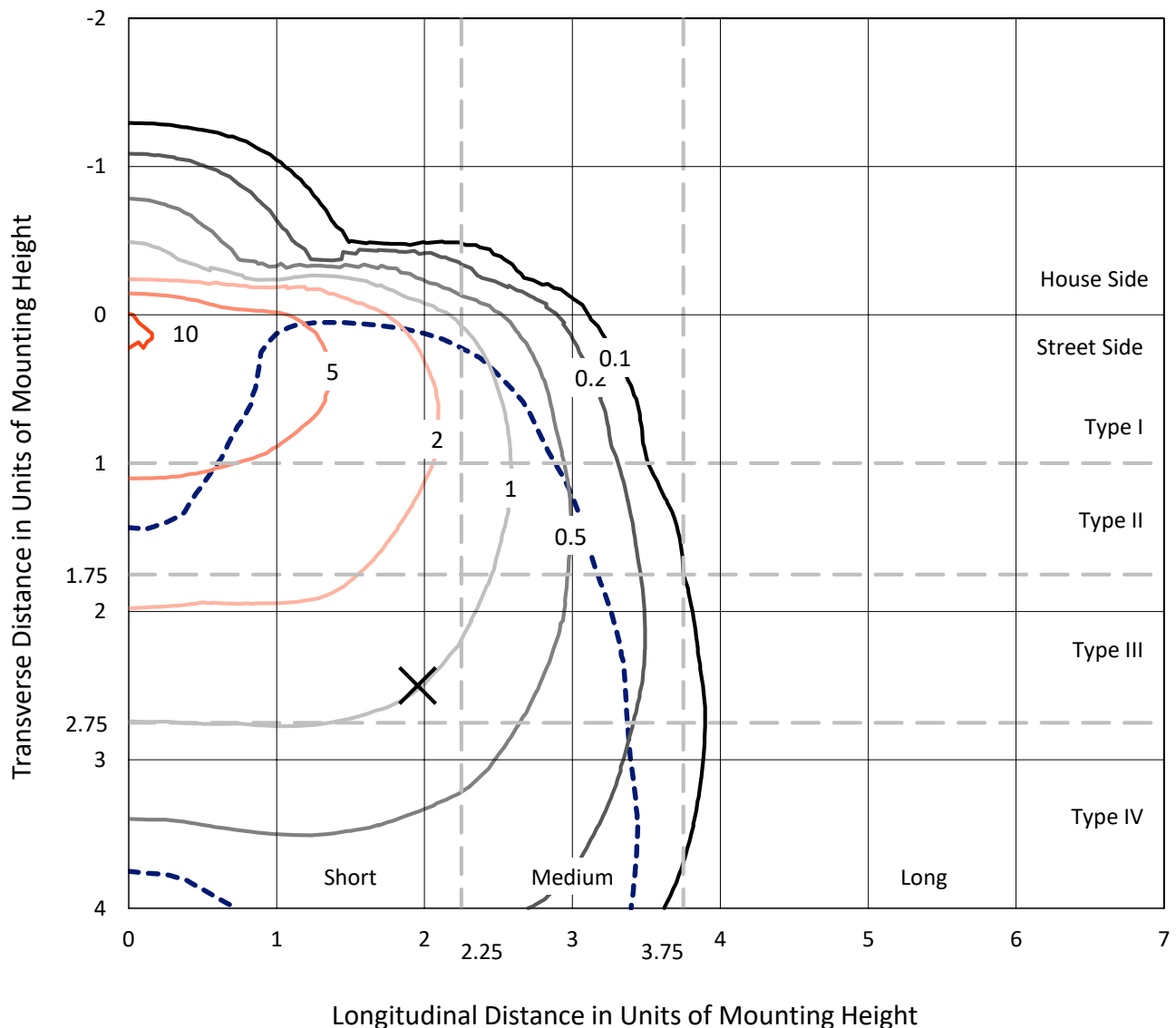


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Iso-Footcandle Lines of Horizontal Illumination

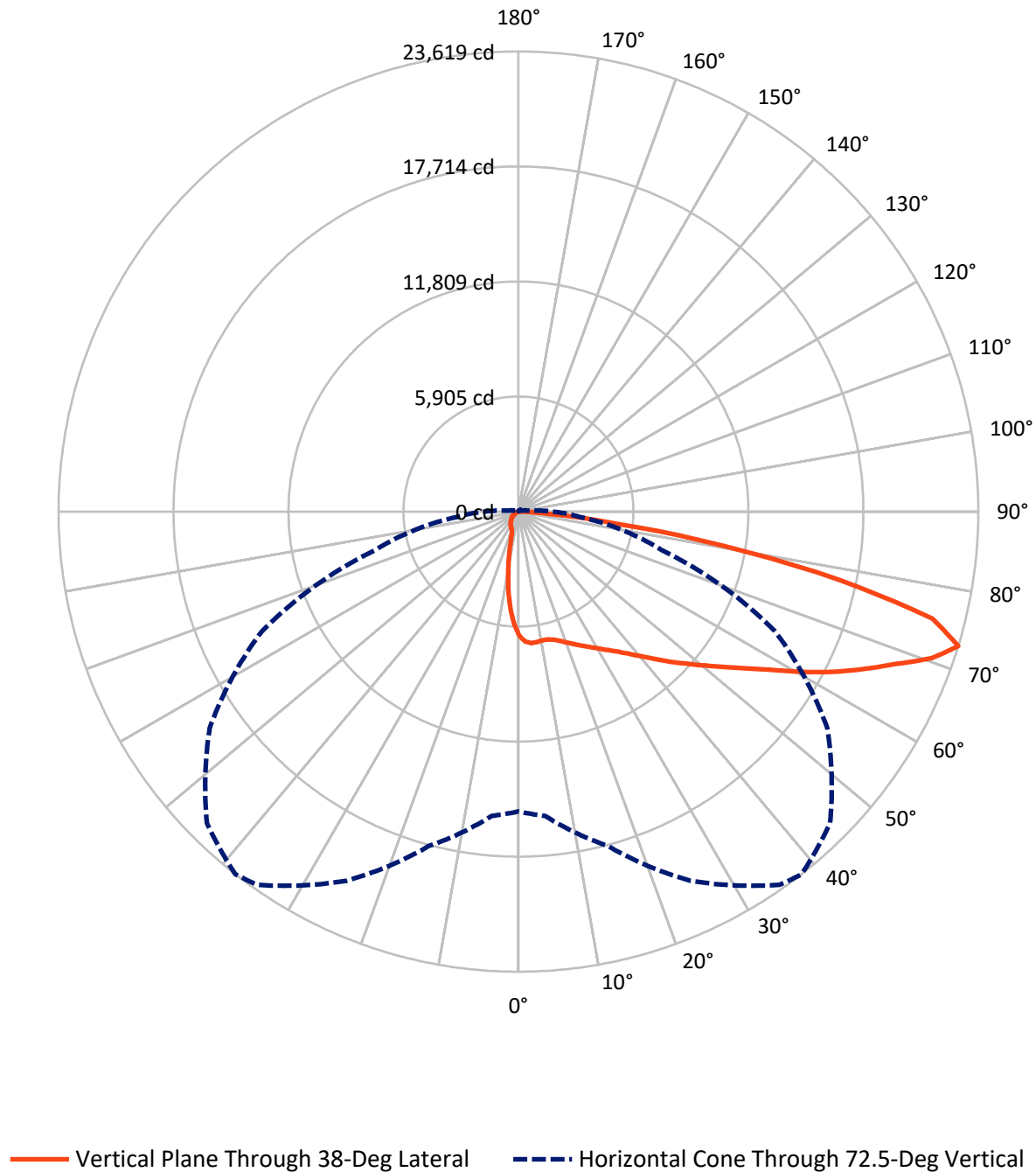
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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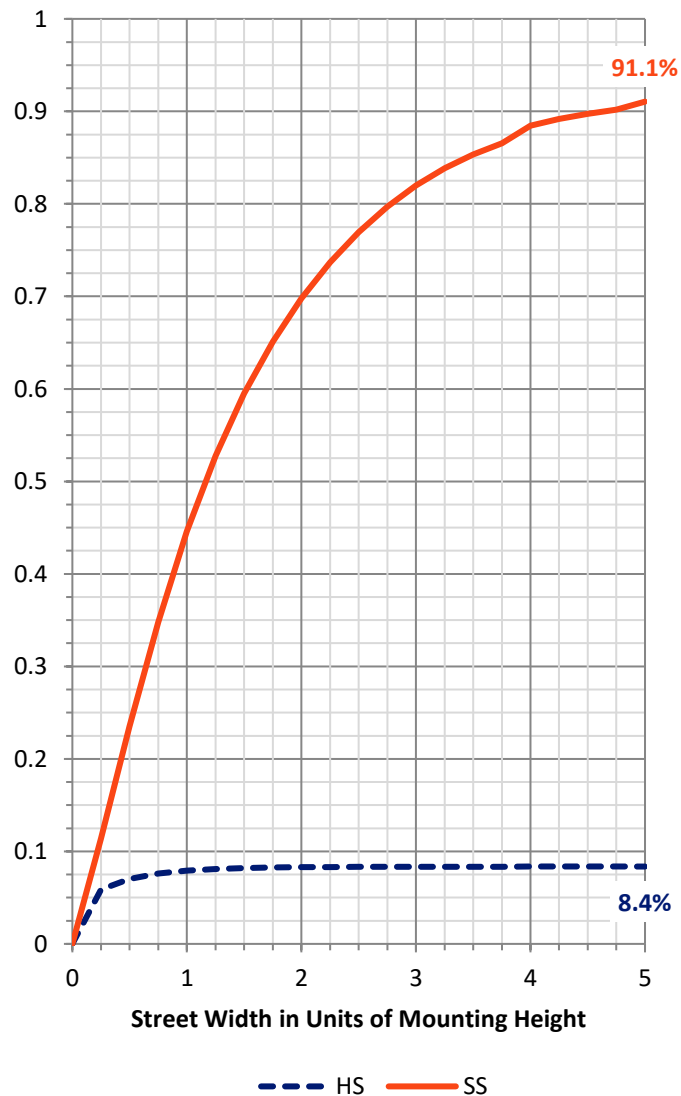
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2918.0	0.0	2918.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	31757.0	0.0	31757.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	34675.0	0.0	34675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.4	1.6
10°-20°	1328.8	3.8
20°-30°	2113.4	6.1
30°-40°	3177.2	9.2
40°-50°	4847.1	14.0
50°-60°	6850.5	19.8
60°-70°	8592.9	24.8
70°-80°	6425.1	18.5
80°-90°	796.7	2.3
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°	34675.0	100.0
0°-180°	34675.0	100.0

Coefficient of Utilization



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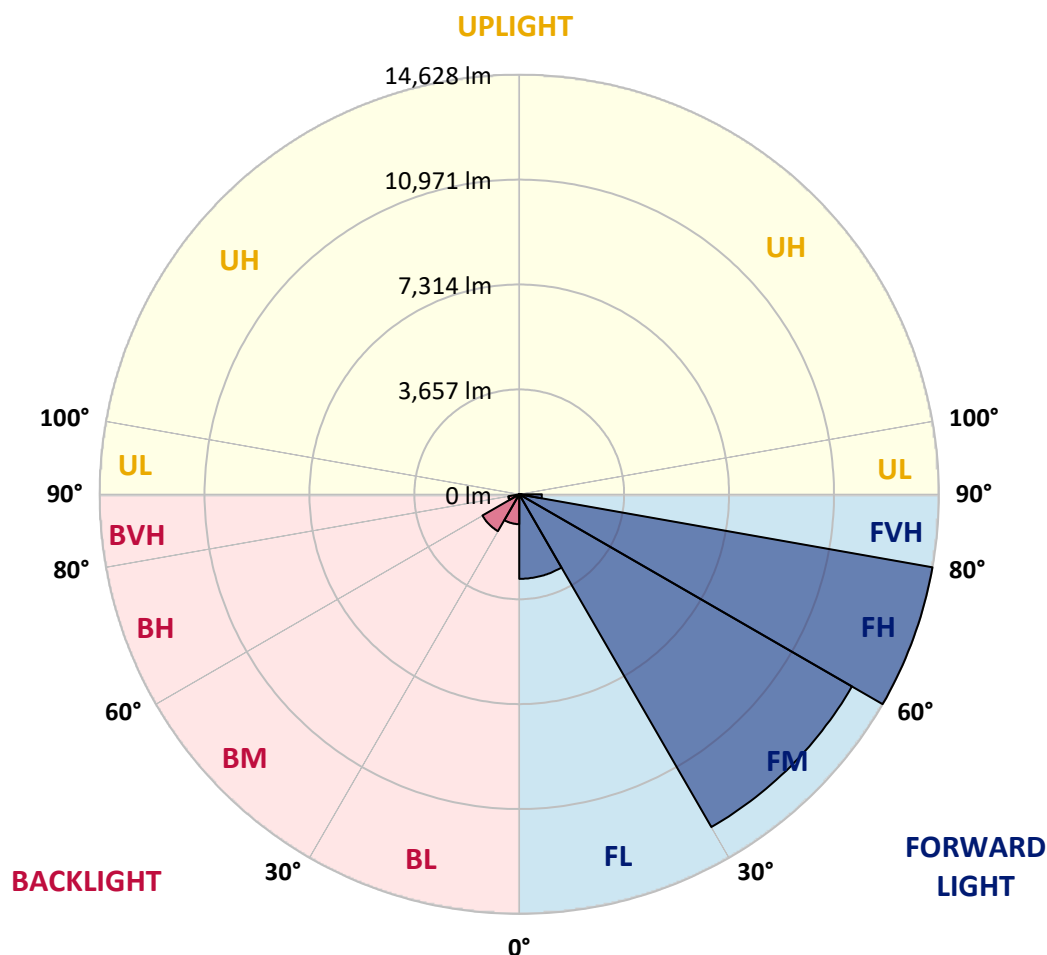
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2946.5	8.5			
FM	(30°-60°)	13393.0	38.6			
FH	(60°-80°)	14628.2	42.2			G5
FVH	(80°-90°)	789.3	2.3			G5
BL	(0°-30°)	1039.0	3.0	B3/2500		
BM	(30°-60°)	1481.8	4.3	B2/2500		
BH	(60°-80°)	389.8	1.1	B1/500		G1/500
BVH	(80°-90°)	7.4	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6376.6	6376.6	6376.6	6376.6	6376.6	6376.6	6376.6	6376.6	6376.6	6376.6	6376.6
2.5°	6768.3	6769.8	6753.9	6728.0	6694.9	6677.6	6648.8	6602.7	6553.7	6465.9	6370.9
5°	6906.6	6906.6	6886.4	6851.8	6798.6	6782.7	6728.0	6654.6	6553.7	6411.2	6251.3
7.5°	6892.2	6895.0	6867.7	6831.7	6778.4	6764.0	6697.8	6615.7	6490.4	6317.6	6113.1
10°	6817.3	6824.5	6802.9	6785.6	6736.6	6720.8	6658.9	6576.8	6451.5	6267.2	6032.4
12.5°	6741.0	6748.2	6755.4	6771.2	6741.0	6735.2	6686.2	6617.1	6497.6	6306.1	6041.1
15°	6692.0	6706.4	6758.2	6820.2	6827.4	6821.6	6789.9	6725.1	6604.1	6405.4	6103.0
17.5°	6692.0	6715.0	6823.0	6941.1	6982.9	6987.2	6959.8	6869.1	6725.1	6512.0	6160.6
20°	6748.2	6779.8	6948.3	7115.4	7184.5	7184.5	7131.2	7004.5	6836.0	6608.5	6199.5
22.5°	6892.2	6933.9	7145.6	7338.6	7412.0	7396.2	7324.2	7139.9	6951.2	6717.9	6248.5
25°	7175.9	7207.5	7427.9	7622.3	7666.9	7630.9	7540.2	7304.0	7098.1	6866.2	6337.7
27.5°	7541.6	7546.0	7773.5	7937.7	7910.3	7885.8	7772.0	7510.0	7309.8	7077.9	6491.8
30°	7943.4	7943.4	8143.6	8268.9	8185.3	8165.2	8051.4	7759.1	7580.5	7365.9	6710.7
32.5°	8332.2	8349.5	8512.2	8591.4	8497.8	8477.7	8366.8	8074.5	7940.5	7805.2	7052.0
35°	8708.1	8721.0	8875.1	8918.3	8829.1	8834.8	8755.6	8507.9	8457.5	8440.2	7566.1
37.5°	9072.4	9075.3	9232.3	9259.6	9215.0	9264.0	9271.2	9052.3	9145.9	9285.6	8290.5
40°	9405.1	9408.0	9563.5	9634.1	9710.4	9773.7	9829.9	9713.3	10022.9	10346.9	9153.1
42.5°	9671.5	9701.7	9899.0	10032.9	10234.6	10355.5	10508.2	10502.4	11066.9	11553.7	10195.7
45°	9906.2	9958.1	10233.1	10467.8	10813.5	11006.4	11245.5	11432.7	12242.0	12897.2	11251.2
47.5°	10215.8	10264.8	10578.7	10963.2	11424.1	11677.5	12073.5	12478.2	13533.8	14216.3	12282.3
50°	10652.2	10630.6	10940.2	11491.7	12083.6	12416.3	12980.8	13587.0	14815.4	15365.5	12888.6
52.5°	11117.3	11108.7	11337.7	12066.3	12861.2	13250.1	13996.0	14733.3	16040.9	16157.6	13166.5
55°	11693.3	11631.4	11824.4	12721.6	13784.3	14201.9	15080.4	15868.1	17017.3	16604.0	13306.2
57.5°	12296.7	12194.5	12378.8	13451.7	14825.5	15319.4	16281.4	16974.1	17666.7	16909.3	13304.8
60°	12920.3	12799.3	13018.2	14364.7	16118.7	16690.4	17583.2	17721.5	18273.0	17063.4	13206.9
62.5°	13441.6	13369.6	13695.0	15341.0	17563.1	18124.7	18566.8	18401.2	18784.2	17182.9	12977.9
65°	13993.1	13997.5	14523.1	16480.1	19098.2	19476.9	19514.4	19282.5	19211.9	17158.4	12203.1
67.5°	14739.1	14808.2	15685.2	18026.8	20591.5	20883.9	20881.0	20237.3	19524.4	16184.9	10485.1
70°	15528.2	15691.0	17024.5	19796.6	22221.7	22518.3	22365.7	20845.0	18383.9	13087.3	7420.7
72.5°	15395.8	15678.0	17769.0	20912.7	23392.5	23618.5	22626.3	19351.6	14530.3	7606.4	3159.5
75°	11877.7	12204.6	16292.9	19806.7	22164.1	21961.0	19440.9	15058.8	7940.5	2122.7	711.4
77.5°	6274.4	6448.6	10763.1	15089.0	17282.2	16857.4	13695.0	8353.8	2420.8	525.6	319.7
80°	3286.2	3326.6	4690.3	8561.2	10666.6	10669.5	8116.2	3669.3	998.0	269.3	214.6
82.5°	1759.8	1794.3	2478.4	3955.9	5588.9	5066.2	3107.7	2019.0	580.3	152.6	205.9
85°	423.4	430.6	1405.5	1807.3	2197.5	1569.7	923.1	1695.0	157.0	89.3	167.0
87.5°	162.7	165.6	521.3	782.0	560.2	362.9	432.0	632.2	20.2	34.6	25.9
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°	6376.6	6376.6	6376.6	6376.6	6376.6	6376.6	6376.6	6376.6	6376.6	6376.6	6376.6
2.5°	6313.3	6275.8	6183.6	6067.0	5963.3	5888.4	5776.1	5702.7	5653.7	5652.3	5633.5
5°	6153.4	6077.1	5878.4	5642.2	5427.6	5234.6	5007.1	4827.1	4693.2	4671.6	4625.5
7.5°	5982.0	5856.8	5551.5	5182.8	4822.8	4457.0	4032.2	3768.7	3542.6	3434.6	3423.0
10°	5876.9	5701.2	5267.8	4734.9	4170.4	3575.7	3019.8	2635.3	2357.4	2278.2	2219.1
12.5°	5855.3	5623.5	5048.9	4314.4	3508.0	2721.7	2106.8	1697.8	1476.1	1405.5	1386.8
15°	5876.9	5587.5	4864.5	3898.3	2836.9	1931.1	1414.1	1176.5	1093.0	1072.9	1071.4
17.5°	5889.9	5544.3	4655.7	3436.0	2186.0	1379.6	1082.9	1013.8	1000.8	999.4	1002.3
20°	5888.4	5478.0	4406.6	2920.5	1625.8	1084.4	979.2	964.8	962.0	963.4	962.0
22.5°	5878.4	5400.3	4133.0	2389.1	1228.4	969.2	934.6	926.0	924.5	924.5	924.5
25°	5897.1	5338.3	3832.0	1880.7	1012.4	915.9	894.3	887.1	885.6	885.6	882.8
27.5°	5964.8	5303.8	3502.2	1447.3	914.4	868.4	851.1	849.6	845.3	843.9	846.8
30°	6074.2	5303.8	3140.8	1126.1	855.4	819.4	806.4	803.6	802.1	800.7	802.1
32.5°	6267.2	5344.1	2746.2	936.0	799.2	764.7	756.0	760.4	756.0	756.0	756.0
35°	6615.7	5465.1	2332.9	816.5	740.2	711.4	702.8	708.5	705.6	705.6	704.2
37.5°	7124.0	5689.7	1916.7	744.5	688.4	658.1	646.6	655.2	652.4	652.4	650.9
40°	7743.2	6016.6	1520.7	689.8	637.9	606.3	596.2	600.5	593.3	593.3	596.2
42.5°	8507.9	6431.3	1175.1	636.5	587.5	557.3	551.5	547.2	534.3	527.1	528.5
45°	9357.6	6863.4	915.9	584.7	540.0	515.5	506.9	495.4	473.8	459.4	460.8
47.5°	10116.5	7196.0	744.5	534.3	496.8	478.1	465.1	443.5	411.9	394.6	396.0
50°	10515.4	7246.4	633.6	483.9	456.5	437.8	419.1	385.9	348.5	329.8	328.3
52.5°	10617.6	7010.2	551.5	437.8	416.2	394.6	370.1	325.5	283.7	263.5	260.7
55°	10655.1	6650.2	478.1	394.6	373.0	348.5	316.8	266.4	227.5	207.4	205.9
57.5°	10531.2	6113.1	420.5	355.7	329.8	299.5	260.7	213.1	175.7	159.8	159.8
60°	10256.2	5385.9	375.9	313.9	285.1	250.6	210.2	165.6	131.0	118.1	118.1
62.5°	9707.5	4444.0	334.1	270.7	243.4	207.4	169.9	125.3	92.2	85.0	86.4
65°	8672.1	3371.2	292.3	231.9	207.4	171.4	132.5	89.3	61.9	61.9	64.8
67.5°	7072.2	2341.5	249.1	197.3	178.6	139.7	100.8	61.9	43.2	49.0	54.7
70°	4681.7	1313.3	213.1	162.7	152.6	110.9	74.9	41.8	34.6	46.1	56.2
72.5°	1767.0	511.2	178.6	131.0	132.5	85.0	53.3	31.7	31.7	50.4	66.2
75°	492.5	250.6	128.2	96.5	103.7	61.9	38.9	27.4	30.2	57.6	77.8
77.5°	289.5	184.3	83.5	56.2	70.6	43.2	25.9	21.6	25.9	49.0	74.9
80°	233.3	97.9	49.0	28.8	38.9	24.5	17.3	13.0	7.2	18.7	38.9
82.5°	233.3	59.0	23.0	20.2	20.2	13.0	8.6	5.8	1.4	0.0	10.1
85°	157.0	24.5	14.4	13.0	10.1	4.3	2.9	1.4	0.0	0.0	0.0
87.5°	25.9	10.1	5.8	2.9	1.4	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)