

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: P323132

Luminaire Tested: **GAN-SA8C-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39266 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

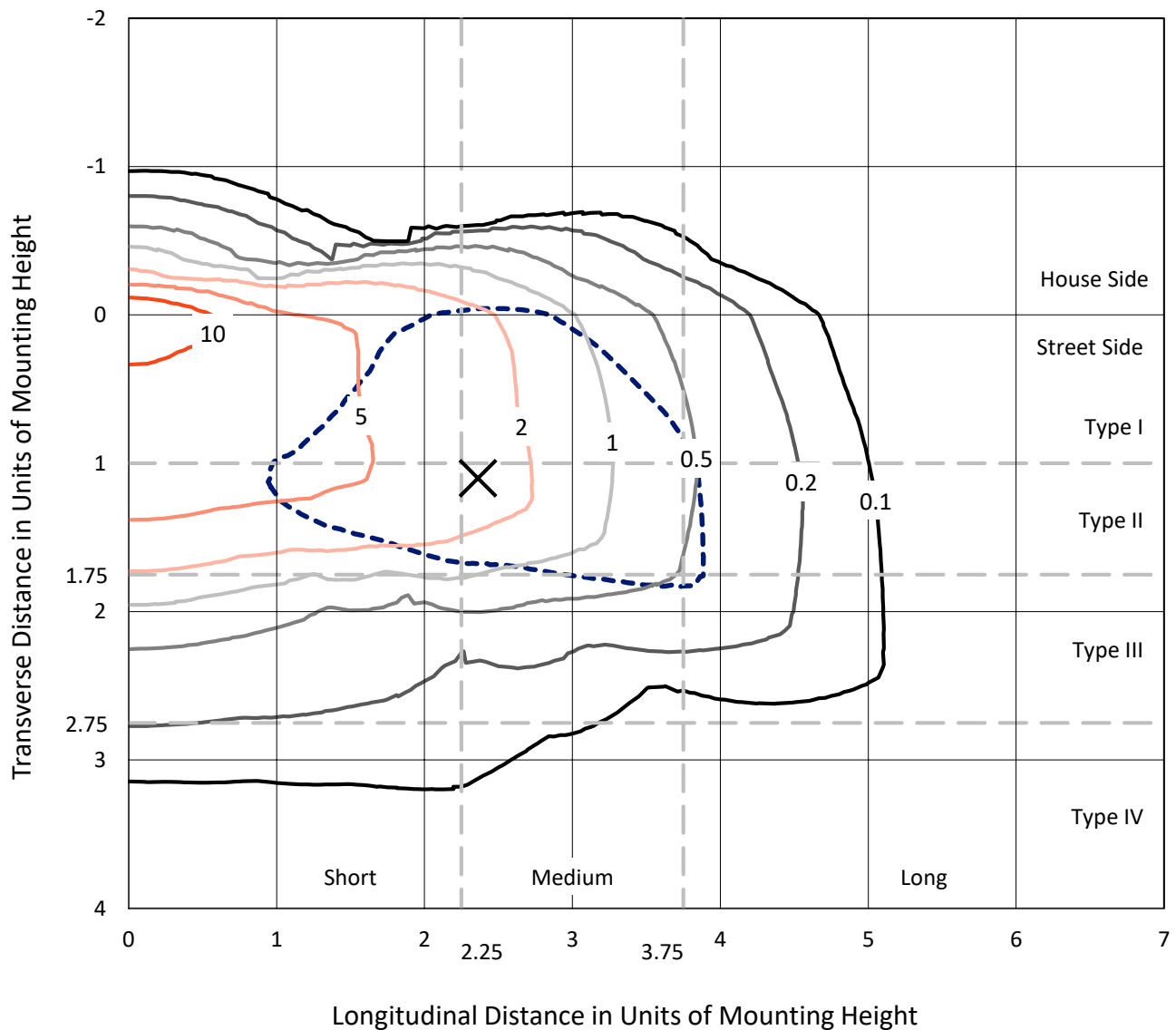
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

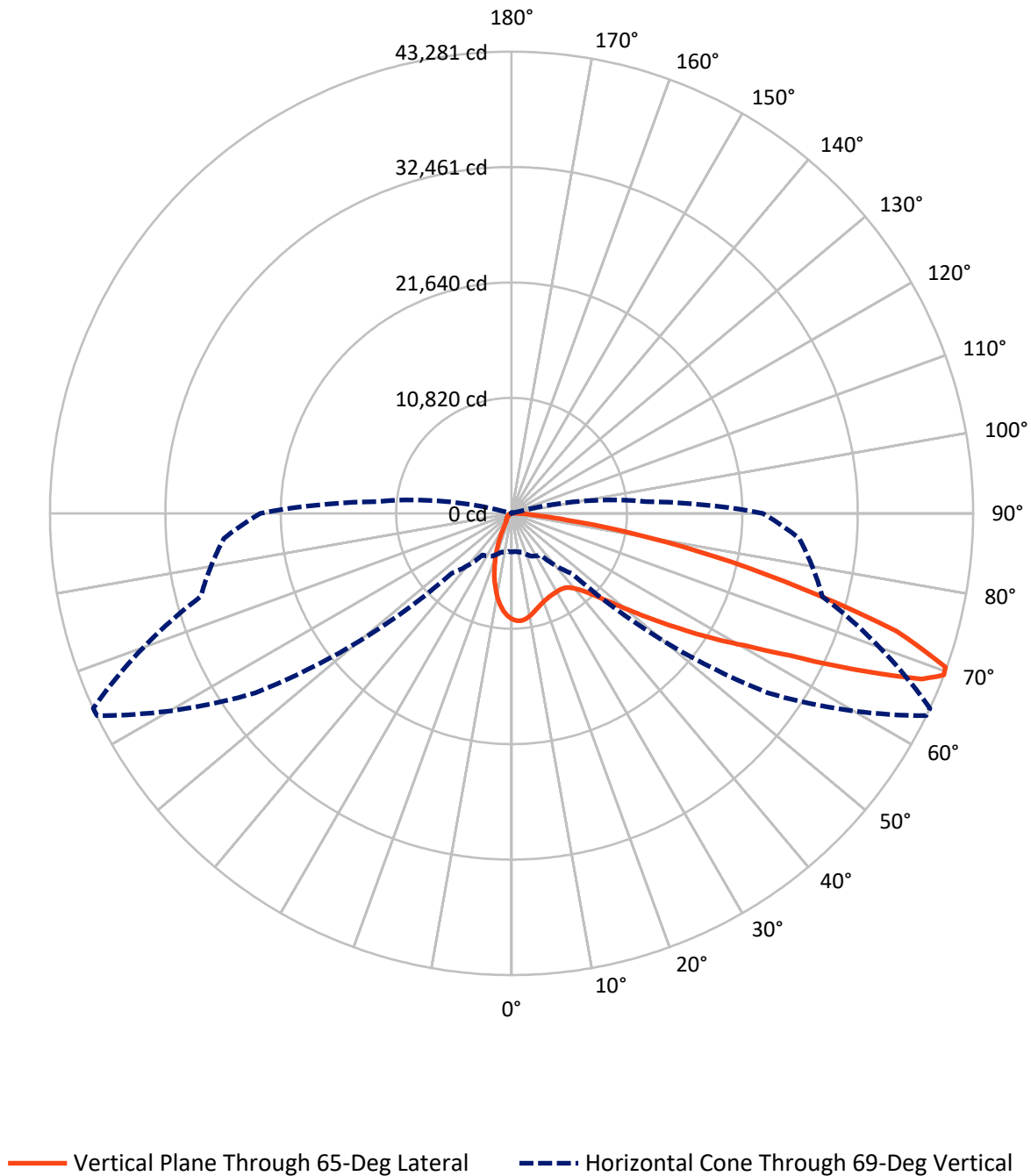
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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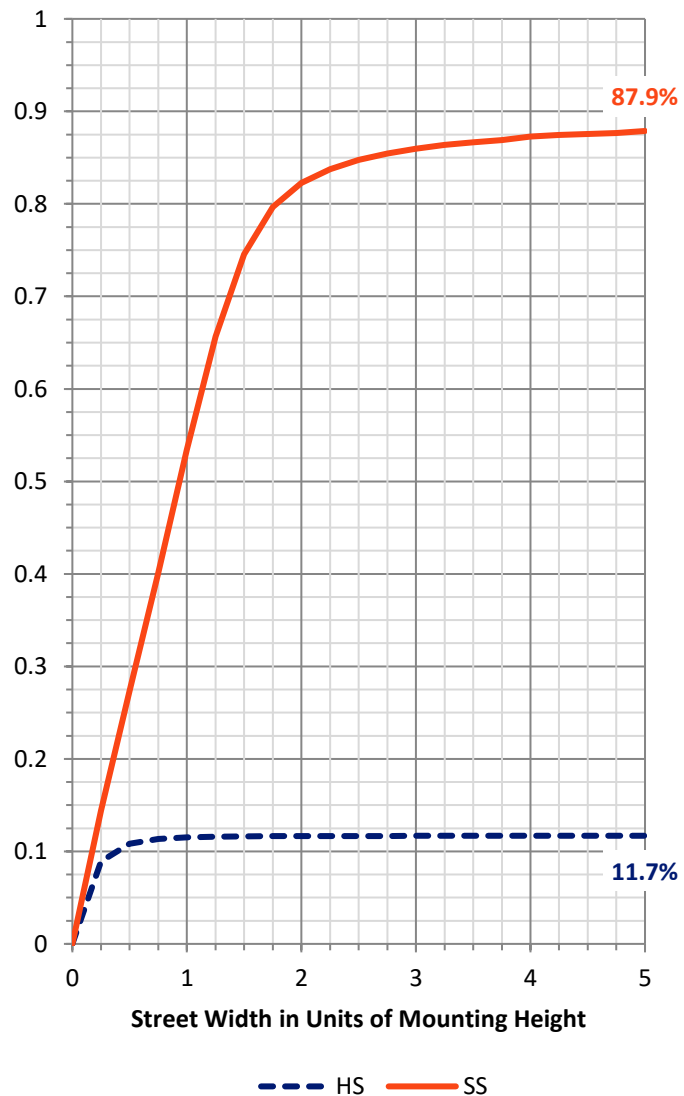
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4628.5	0.0	4628.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	34637.5	0.0	34637.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	39266.0	0.0	39266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	829.7	2.1
10°-20°	1816.3	4.6
20°-30°	2515.7	6.4
30°-40°	3507.6	8.9
40°-50°	5452.1	13.9
50°-60°	8752.7	22.3
60°-70°	9900.7	25.2
70°-80°	5814.8	14.8
80°-90°	676.4	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°	39266.0	100.0
0°-180°	39266.0	100.0

Coefficient of Utilization



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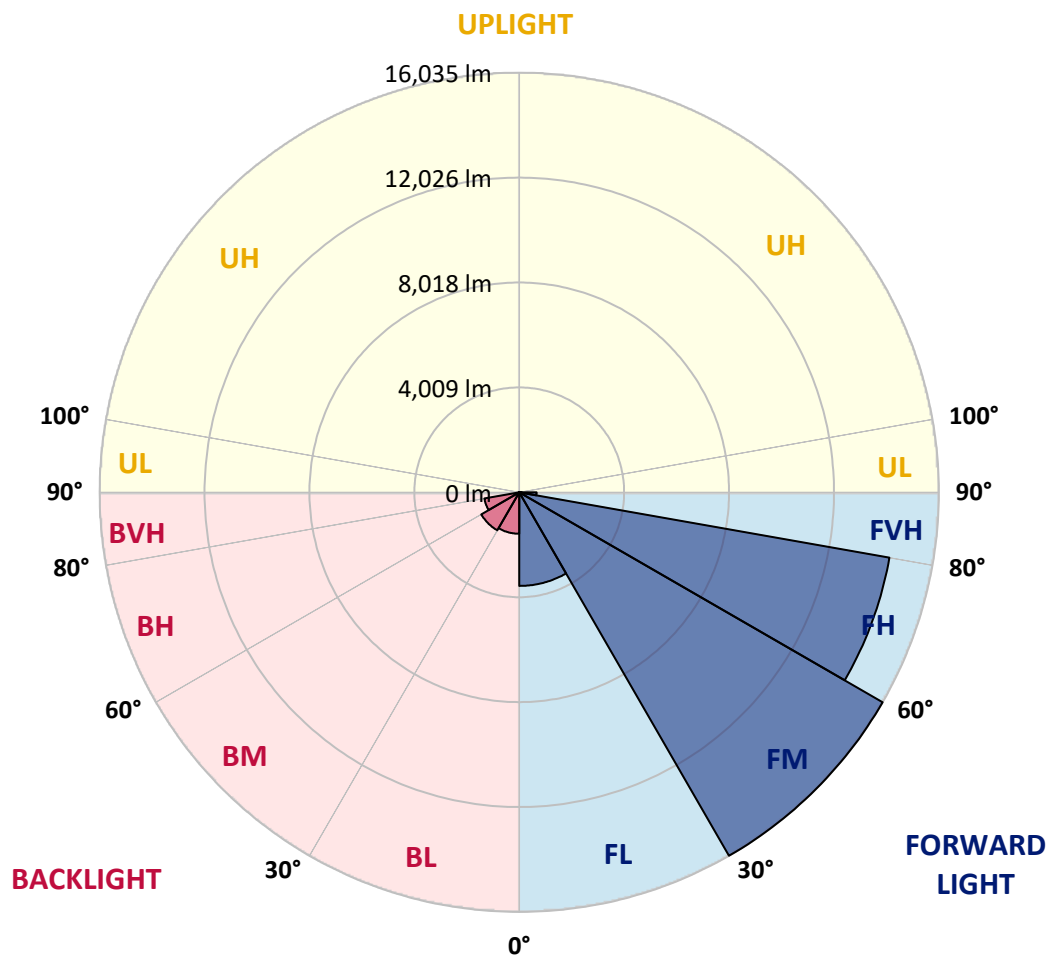
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3578.0	9.1			
FM	(30°-60°)	16035.1	40.8			
FH	(60°-80°)	14363.1	36.6			G5
FVH	(80°-90°)	661.2	1.7			G4/750
BL	(0°-30°)	1583.7	4.0	B3/2500		
BM	(30°-60°)	1677.3	4.3	B2/2500		
BH	(60°-80°)	1352.4	3.4	B3/2500		G3/2500
BVH	(80°-90°)	15.2	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	9922.6	9922.6	9922.6	9922.6	9922.6	9922.6	9922.6	9922.6	9922.6	9922.6	9922.6
2.5°	10010.6	9985.7	10005.7	10048.9	10070.5	10070.5	10087.1	10067.1	10073.8	10025.6	9955.8
5°	9384.3	9346.0	9400.9	9522.2	9671.7	9799.6	9989.0	10088.7	10098.7	10100.4	10019.0
7.5°	8709.7	8674.8	8756.2	8899.1	9091.8	9329.4	9660.1	9949.2	9965.8	10122.0	10062.2
10°	8161.4	8136.5	8231.2	8384.0	8610.0	8875.8	9281.2	9683.3	9731.5	10077.1	10055.5
12.5°	7726.1	7706.1	7795.8	7972.0	8202.9	8497.0	8920.7	9387.6	9452.4	9975.8	10022.3
15°	7408.7	7405.4	7480.2	7649.6	7905.5	8179.7	8613.3	9113.4	9188.2	9866.1	10017.3
17.5°	7242.6	7247.5	7302.4	7446.9	7666.2	7938.7	8354.1	8882.5	8963.9	9768.1	10042.2
20°	7225.9	7230.9	7260.8	7342.2	7520.0	7761.0	8143.1	8688.1	8772.8	9695.0	10082.1
22.5°	7372.2	7368.8	7377.1	7368.8	7468.5	7651.3	8003.5	8538.5	8636.6	9646.8	10113.7
25°	7653.0	7648.0	7644.6	7583.2	7516.7	7614.7	7945.4	8453.8	8546.8	9611.9	10131.9
27.5°	8043.4	8040.1	8035.1	7933.7	7734.4	7672.9	7952.0	8422.2	8500.3	9583.6	10128.6
30°	8556.8	8580.1	8573.4	8432.2	8121.5	7850.7	8021.8	8405.6	8473.7	9528.8	10093.7
32.5°	9160.0	9206.5	9243.0	9091.8	8703.0	8202.9	8183.0	8423.9	8473.7	9487.3	10030.6
35°	9786.3	9846.2	9980.7	9927.6	9415.8	8732.9	8460.5	8533.6	8575.1	9510.5	10000.7
37.5°	10402.8	10474.2	10766.6	10921.2	10349.6	9434.1	8892.4	8804.4	8826.0	9651.8	10033.9
40°	11118.9	11226.9	11670.5	11919.7	11464.5	10372.9	9538.8	9269.6	9277.9	9962.5	10188.4
42.5°	12059.3	12170.6	12650.8	13041.3	12720.6	11559.2	10416.1	9980.7	9972.4	10544.0	10552.3
45°	13205.7	13322.1	13818.8	14252.5	14108.0	12964.8	11539.2	11019.2	11009.2	11461.2	11241.8
47.5°	14505.1	14619.7	15063.3	15510.3	15666.5	14606.4	12969.8	12436.5	12413.2	12735.5	12306.9
50°	15619.9	15694.7	16103.4	16704.9	17409.4	16623.5	14749.3	14235.9	14211.0	14428.6	13870.4
52.5°	16025.3	16068.5	16483.9	17326.3	19084.2	19355.0	17087.1	16425.8	16407.5	16502.2	15952.2
55°	15204.6	15282.6	15792.7	17042.2	19991.4	22442.1	20037.9	19137.4	18999.5	18795.1	18128.8
57.5°	12968.1	13092.8	13641.1	15302.6	19567.7	24891.2	24374.5	22204.5	22001.8	20752.4	19898.3
60°	9716.6	9869.4	10324.7	12117.5	17306.4	25763.5	29113.1	25622.3	25165.4	22310.9	21525.0
62.5°	6667.7	6744.1	7053.1	8221.2	12745.5	24334.6	33077.5	30199.8	29365.7	24005.6	23284.5
65°	5092.6	5119.1	5245.4	5647.5	7589.8	19767.1	34654.3	36239.4	35230.8	26032.7	25110.5
67.5°	4104.0	4082.4	4256.8	4831.7	5082.6	12059.3	32815.0	41953.3	41481.5	28742.6	26948.2
69°	3618.8	3588.9	3766.7	4434.6	4773.5	7972.0	29335.8	43251.0	43280.9	30173.2	27074.4
70°	3256.6	3276.5	3452.6	4198.7	4668.9	6257.3	26012.7	42920.3	43156.3	30708.2	26316.8
72.5°	2174.9	2228.1	2582.0	3485.9	4489.4	4735.3	15706.3	36830.9	37738.1	29503.6	22578.4
75°	1226.2	1266.1	1686.4	2628.5	4230.2	4509.4	8296.0	27134.3	28011.5	24671.9	17411.0
77.5°	601.5	623.1	953.7	1696.4	3537.4	4296.7	4705.4	18431.2	19433.1	16103.4	9847.8
80°	254.2	265.8	476.9	1046.8	2528.8	4100.6	3494.2	11343.2	11467.8	6308.8	2623.5
82.5°	98.0	101.4	201.0	653.0	1606.7	3196.8	2922.6	5378.3	5248.7	1188.0	598.1
85°	11.6	13.3	73.1	392.1	893.9	1644.9	2374.3	2317.8	2145.0	235.9	307.4
87.5°	0.0	0.0	5.0	119.6	265.8	770.9	1234.5	962.0	867.3	76.4	159.5
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°	9922.6	9922.6	9922.6	9922.6	9922.6	9922.6	9922.6	9922.6	9922.6	9922.6	9922.6
2.5°	9897.7	9881.0	9791.3	9661.7	9538.8	9385.9	9239.7	9151.6	9081.9	9035.3	9090.2
5°	9924.2	9851.1	9578.7	9229.7	8887.5	8502.0	8143.1	7839.0	7719.4	7586.5	7646.3
7.5°	9915.9	9778.0	9287.9	8666.5	8038.4	7388.8	6774.0	6300.5	6054.6	5813.7	5875.1
10°	9874.4	9641.8	8899.1	7978.6	7038.2	6104.4	5232.1	4569.2	4198.7	3863.0	3911.2
12.5°	9783.0	9459.0	8440.5	7191.1	5933.3	4702.1	3680.3	2831.2	2376.0	2174.9	2199.9
15°	9728.2	9281.2	7955.3	6393.5	4753.6	3274.9	2249.7	1673.1	1465.5	1399.0	1407.3
17.5°	9701.6	9110.1	7453.6	5481.3	3547.3	2085.2	1453.8	1282.7	1237.8	1226.2	1229.5
20°	9675.0	8937.3	6936.8	4579.1	2444.1	1402.3	1194.6	1144.8	1128.2	1113.2	1116.5
22.5°	9630.2	8771.2	6381.9	3665.3	1648.2	1138.1	1076.7	1028.5	993.6	975.3	978.6
25°	9575.3	8596.7	5815.3	2729.9	1202.9	1015.2	957.0	888.9	847.4	814.1	815.8
27.5°	9487.3	8382.4	5230.5	1987.2	1010.2	908.9	830.8	756.0	686.2	648.0	648.0
30°	9364.3	8139.8	4580.8	1422.3	905.5	804.2	709.5	616.4	541.7	506.8	503.4
32.5°	9228.1	7887.2	3924.5	1078.3	822.5	706.1	598.1	500.1	433.7	405.4	403.7
35°	9111.8	7614.7	3269.9	903.9	739.4	611.4	493.5	410.4	357.2	334.0	332.3
37.5°	9037.0	7342.2	2631.8	807.5	664.6	523.4	413.7	338.9	300.7	282.5	280.8
40°	9025.4	7139.5	2048.7	734.4	594.8	445.3	345.6	287.4	252.6	232.6	231.0
42.5°	9176.6	7023.2	1571.8	672.9	523.4	377.2	294.1	245.9	209.4	189.4	187.8
45°	9573.7	7059.8	1209.6	618.1	451.9	319.0	249.2	204.4	171.1	156.2	152.9
47.5°	10298.1	7312.3	962.0	563.3	383.8	270.8	212.7	169.5	141.2	126.3	124.6
50°	11587.4	7905.5	804.2	503.4	320.7	231.0	176.1	137.9	114.6	101.4	99.7
52.5°	13298.8	8962.2	717.8	445.3	265.8	196.1	144.6	109.7	89.7	79.8	78.1
55°	15186.3	10241.6	661.3	382.1	217.7	162.8	114.6	86.4	69.8	61.5	58.2
57.5°	17028.9	11349.8	608.1	320.7	181.1	132.9	91.4	68.1	54.8	46.5	44.9
60°	18722.0	12368.3	546.6	257.5	147.9	104.7	71.4	53.2	43.2	34.9	34.9
62.5°	20534.7	13155.9	461.9	201.0	121.3	79.8	58.2	48.2	34.9	29.9	28.2
65°	22455.4	13740.8	362.2	156.2	94.7	59.8	48.2	49.8	28.2	21.6	19.9
67.5°	23874.4	13624.4	267.5	123.0	73.1	46.5	46.5	53.2	24.9	16.6	15.0
69°	23562.0	12679.0	224.3	106.3	63.1	39.9	43.2	53.2	23.3	15.0	13.3
70°	22656.5	11632.3	197.7	94.7	56.5	36.6	41.5	51.5	21.6	15.0	13.3
72.5°	18868.2	8761.2	154.5	71.4	44.9	29.9	34.9	44.9	21.6	15.0	11.6
75°	14192.7	5607.6	118.0	51.5	33.2	23.3	26.6	33.2	21.6	13.3	11.6
77.5°	7722.7	2022.1	84.7	34.9	23.3	18.3	18.3	24.9	19.9	10.0	6.6
80°	1985.5	508.4	53.2	23.3	18.3	13.3	11.6	16.6	11.6	1.7	0.0
82.5°	490.1	114.6	28.2	16.6	13.3	5.0	5.0	8.3	5.0	0.0	0.0
85°	269.2	56.5	18.3	11.6	6.6	0.0	0.0	1.7	0.0	0.0	0.0
87.5°	137.9	16.6	5.0	3.3	1.7	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)