

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: P323770

Luminaire Tested: **GAN-SA6C-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323770
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-SA6C-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA 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: 28712 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

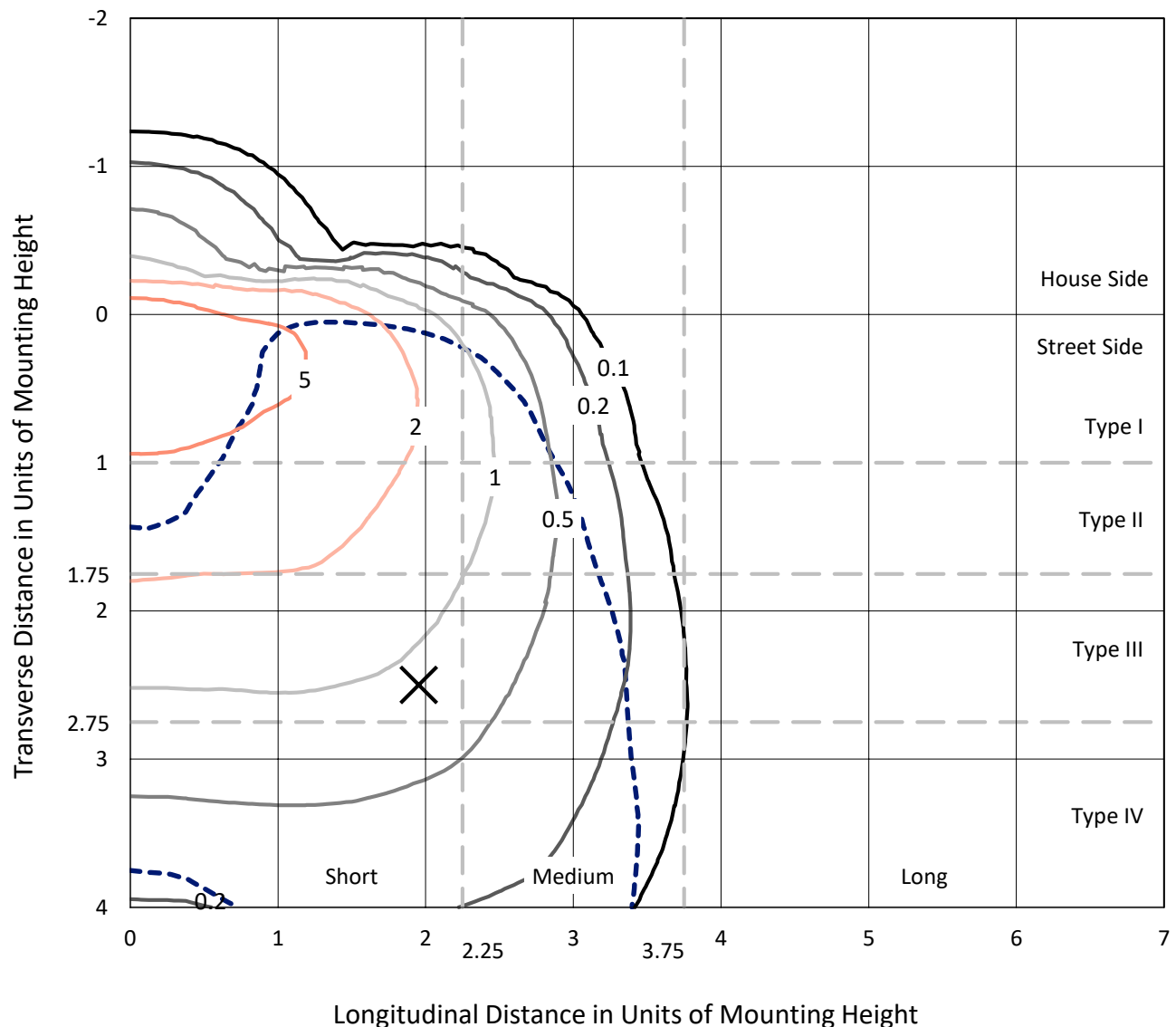
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

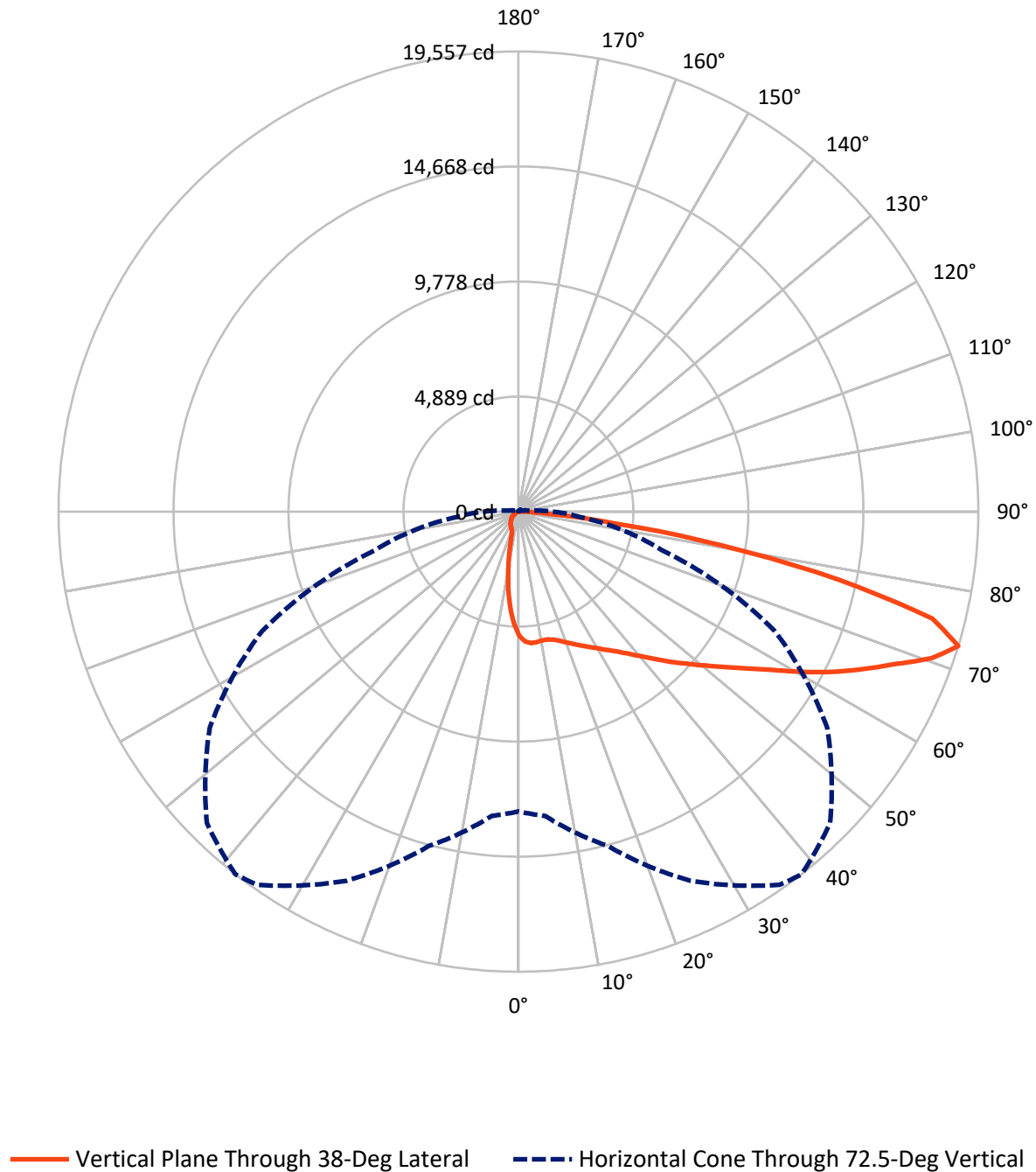
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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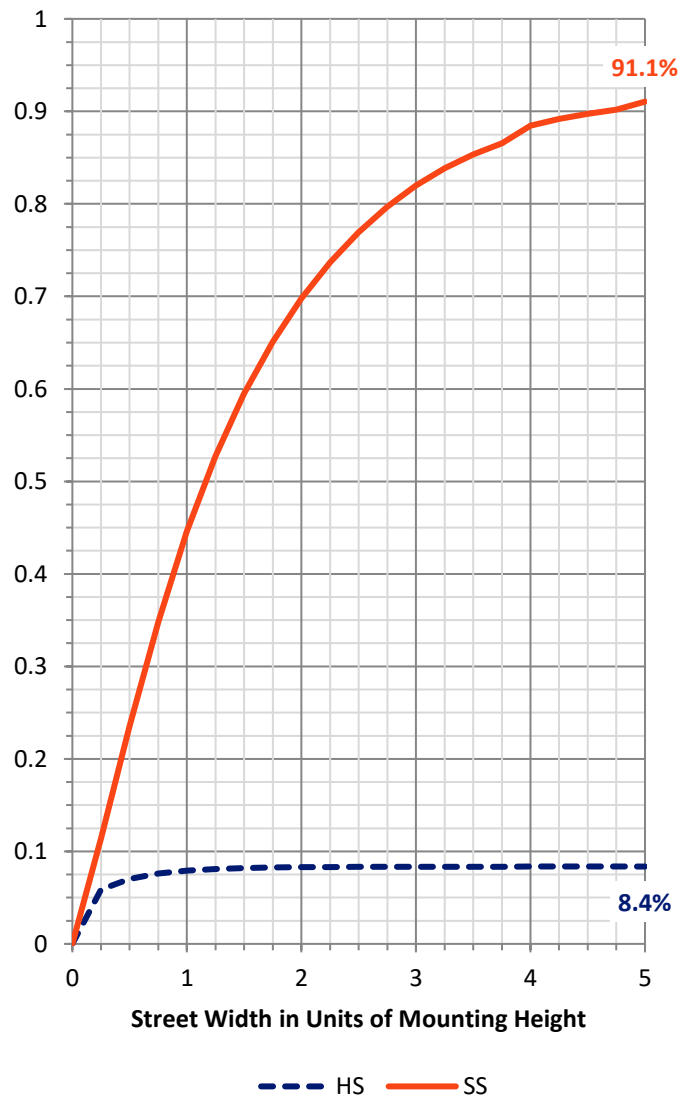
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2416.2	0.0	2416.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	26295.8	0.0	26295.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	28712.0	0.0	28712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.0	1.6
10°-20°	1100.3	3.8
20°-30°	1749.9	6.1
30°-40°	2630.8	9.2
40°-50°	4013.5	14.0
50°-60°	5672.5	19.8
60°-70°	7115.2	24.8
70°-80°	5320.2	18.5
80°-90°	659.7	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°	28712.0	100.0
0°-180°	28712.0	100.0

Coefficient of Utilization



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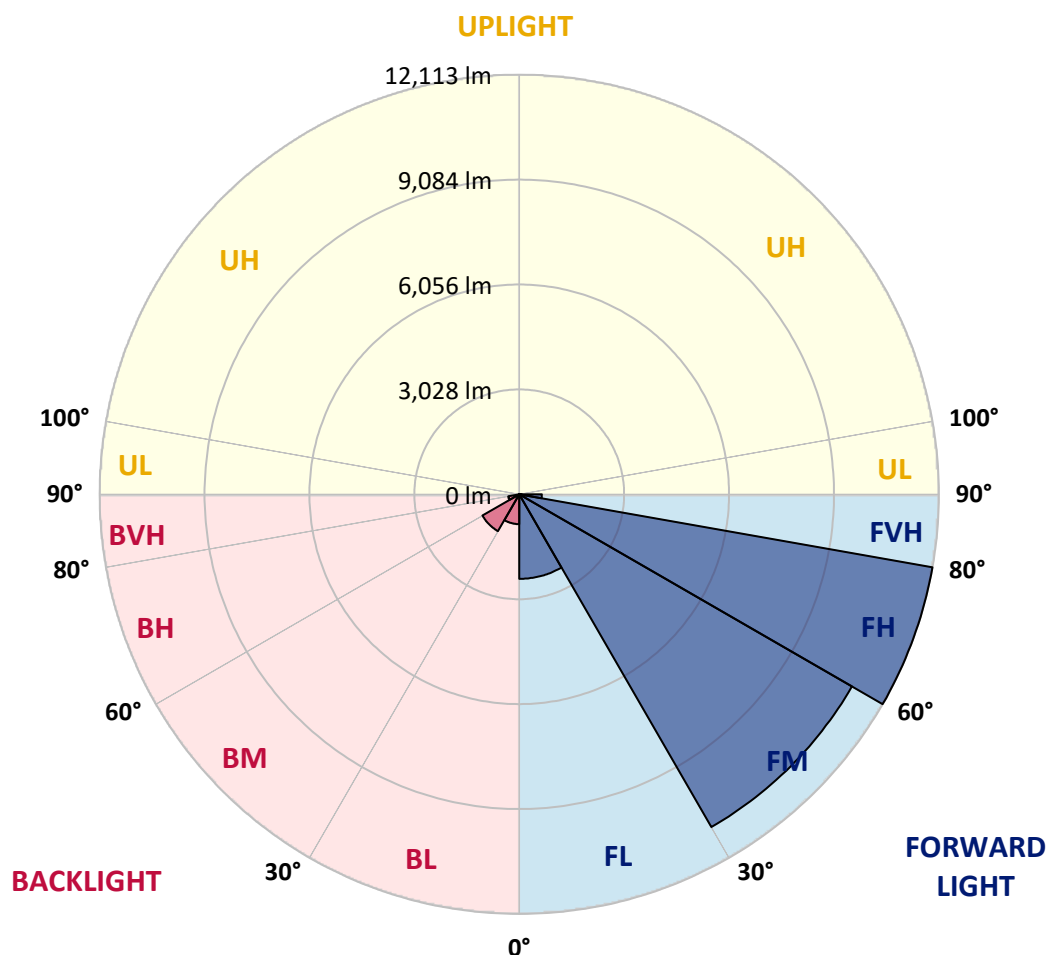
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2439.8	8.5			
FM	(30°-60°)	11089.8	38.6			
FH	(60°-80°)	12112.6	42.2			G5
FVH	(80°-90°)	653.5	2.3			G4/750
BL	(0°-30°)	860.3	3.0	B2/1000		
BM	(30°-60°)	1227.0	4.3	B2/2500		
BH	(60°-80°)	322.8	1.1	B1/500		G1/500
BVH	(80°-90°)	6.2	0.0			G0/10
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°	38°	45°	55°	65°	75°	85°
0°	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0
2.5°	5604.4	5605.6	5592.5	5571.0	5543.6	5529.3	5505.4	5467.3	5426.7	5354.0	5275.3
5°	5718.9	5718.9	5702.2	5673.5	5629.4	5616.3	5571.0	5510.2	5426.7	5308.7	5176.3
7.5°	5706.9	5709.3	5686.7	5656.8	5612.7	5600.8	5546.0	5478.0	5374.2	5231.2	5061.8
10°	5644.9	5650.9	5633.0	5618.7	5578.1	5565.0	5513.8	5445.8	5342.0	5189.4	4995.1
12.5°	5581.7	5587.7	5593.6	5606.8	5581.7	5577.0	5536.4	5479.2	5380.2	5221.6	5002.2
15°	5541.2	5553.1	5596.0	5647.3	5653.3	5648.5	5622.3	5568.6	5468.4	5303.9	5053.5
17.5°	5541.2	5560.3	5649.7	5747.5	5782.1	5785.6	5763.0	5687.9	5568.6	5392.1	5101.2
20°	5587.7	5613.9	5753.4	5891.8	5949.0	5949.0	5904.9	5799.9	5660.4	5472.0	5133.4
22.5°	5706.9	5741.5	5916.8	6076.6	6137.4	6124.3	6064.7	5912.0	5755.8	5562.6	5173.9
25°	5941.8	5968.1	6150.5	6311.5	6348.5	6318.6	6243.5	6048.0	5877.4	5685.5	5247.8
27.5°	6244.7	6248.3	6436.7	6572.6	6550.0	6529.7	6435.5	6218.5	6052.7	5860.8	5375.4
30°	6577.4	6577.4	6743.1	6846.9	6777.7	6761.0	6666.8	6424.8	6276.9	6099.2	5556.7
32.5°	6899.4	6913.7	7048.4	7114.0	7036.5	7019.8	6928.0	6685.9	6575.0	6462.9	5839.3
35°	7210.6	7221.3	7348.9	7384.7	7310.7	7315.5	7249.9	7044.8	7003.1	6988.8	6265.0
37.5°	7512.3	7514.6	7644.6	7667.3	7630.3	7670.8	7676.8	7495.6	7573.1	7688.7	6864.8
40°	7787.7	7790.1	7918.9	7977.3	8040.5	8093.0	8139.5	8042.9	8299.3	8567.5	7579.0
42.5°	8008.3	8033.3	8196.7	8307.6	8474.5	8574.7	8701.1	8696.3	9163.8	9566.8	8442.3
45°	8202.7	8245.6	8473.3	8667.7	8953.9	9113.7	9311.6	9466.6	10136.8	10679.3	9316.4
47.5°	8459.0	8499.6	8759.5	9077.9	9459.5	9669.3	9997.3	10332.3	11206.4	11771.6	10170.2
50°	8820.3	8802.5	9058.8	9515.5	10005.6	10281.1	10748.5	11250.5	12267.6	12723.1	10672.2
52.5°	9205.5	9198.3	9387.9	9991.3	10649.5	10971.5	11589.1	12199.7	13282.4	13379.0	10902.3
55°	9682.5	9631.2	9791.0	10533.9	11413.9	11759.7	12487.0	13139.3	14090.8	13748.6	11018.0
57.5°	10182.1	10097.4	10250.1	11138.4	12276.0	12685.0	13481.5	14055.1	14628.6	14001.4	11016.8
60°	10698.4	10598.2	10779.5	11894.4	13346.8	13820.2	14559.5	14673.9	15130.6	14129.0	10935.7
62.5°	11130.1	11070.4	11339.9	12702.9	14542.8	15007.8	15373.9	15236.8	15553.9	14228.0	10746.1
65°	11586.8	11590.3	12025.6	13646.1	15813.9	16127.5	16158.5	15966.5	15908.1	14207.7	10104.6
67.5°	12204.4	12261.7	12987.9	14926.7	17050.4	17292.5	17290.1	16757.1	16166.8	13401.6	8682.0
70°	12857.9	12992.6	14096.8	16392.2	18400.3	18645.9	18519.5	17260.3	15222.5	10836.7	6144.5
72.5°	12748.2	12981.9	14713.3	17316.3	19369.7	19556.9	18735.3	16023.8	12031.5	6298.4	2616.2
75°	9835.1	10105.8	13491.1	16400.6	18352.6	18184.4	16097.7	12469.2	6575.0	1757.6	589.1
77.5°	5195.4	5339.7	8912.2	12494.2	14310.2	13958.5	11339.9	6917.2	2004.5	435.2	264.7
80°	2721.1	2754.5	3883.7	7088.9	8832.3	8834.7	6720.5	3038.3	826.3	223.0	177.7
82.5°	1457.1	1485.8	2052.2	3275.6	4627.8	4194.9	2573.2	1671.8	480.5	126.4	170.5
85°	350.6	356.5	1163.8	1496.5	1819.6	1299.7	764.3	1403.5	130.0	73.9	138.3
87.5°	134.7	137.1	431.7	647.5	463.9	300.5	357.7	523.5	16.7	28.6	21.5
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°	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0
2.5°	5227.6	5196.6	5120.3	5023.7	4937.8	4875.8	4782.8	4722.0	4681.4	4680.3	4664.8
5°	5095.2	5032.0	4867.5	4671.9	4494.2	4334.5	4146.0	3997.0	3886.1	3868.2	3830.1
7.5°	4953.3	4849.6	4596.8	4291.5	3993.4	3690.5	3338.8	3120.6	2933.4	2843.9	2834.4
10°	4866.3	4720.8	4361.9	3920.7	3453.3	2960.8	2500.5	2182.1	1952.0	1886.4	1837.5
12.5°	4848.4	4656.4	4180.6	3572.5	2904.7	2253.7	1744.5	1405.9	1222.2	1163.8	1148.3
15°	4866.3	4626.6	4028.0	3227.9	2349.1	1599.0	1171.0	974.2	905.0	888.4	887.2
17.5°	4877.0	4590.8	3855.1	2845.1	1810.1	1142.3	896.7	839.5	828.7	827.5	829.9
20°	4875.8	4536.0	3648.8	2418.2	1346.2	897.9	810.8	798.9	796.5	797.7	796.5
22.5°	4867.5	4471.6	3422.2	1978.2	1017.1	802.5	773.9	766.7	765.5	765.5	765.5
25°	4883.0	4420.3	3173.0	1557.3	838.3	758.4	740.5	734.5	733.3	733.3	731.0
27.5°	4939.0	4391.7	2900.0	1198.4	757.2	719.0	704.7	703.5	700.0	698.8	701.1
30°	5029.6	4391.7	2600.7	932.5	708.3	678.5	667.8	665.4	664.2	663.0	664.2
32.5°	5189.4	4425.1	2273.9	775.1	661.8	633.2	626.0	629.6	626.0	626.0	626.0
35°	5478.0	4525.2	1931.7	676.1	612.9	589.1	581.9	586.7	584.3	584.3	583.1
37.5°	5898.9	4711.3	1587.1	616.5	570.0	544.9	535.4	542.6	540.2	540.2	539.0
40°	6411.7	4981.9	1259.2	571.2	528.2	502.0	493.7	497.2	491.3	491.3	493.7
42.5°	7044.8	5325.4	973.0	527.1	486.5	461.5	456.7	453.1	442.4	436.4	437.6
45°	7748.4	5683.1	758.4	484.1	447.2	426.9	419.7	410.2	392.3	380.4	381.6
47.5°	8376.8	5958.5	616.5	442.4	411.4	395.9	385.2	367.3	341.0	326.7	327.9
50°	8707.1	6000.3	524.7	400.7	378.0	362.5	347.0	319.6	288.6	273.1	271.9
52.5°	8791.7	5804.7	456.7	362.5	344.6	326.7	306.5	269.5	234.9	218.2	215.8
55°	8822.7	5506.6	395.9	326.7	308.8	288.6	262.3	220.6	188.4	171.7	170.5
57.5°	8720.2	5061.8	348.2	294.5	273.1	248.0	215.8	176.5	145.5	132.4	132.4
60°	8492.4	4459.7	311.2	259.9	236.1	207.5	174.1	137.1	108.5	97.8	97.8
62.5°	8038.1	3679.8	276.6	224.2	201.5	171.7	140.7	103.7	76.3	70.4	71.5
65°	7180.8	2791.5	242.1	192.0	171.7	141.9	109.7	73.9	51.3	51.3	53.7
67.5°	5856.0	1938.9	206.3	163.4	147.9	115.7	83.5	51.3	35.8	40.5	45.3
70°	3876.6	1087.5	176.5	134.7	126.4	91.8	62.0	34.6	28.6	38.2	46.5
72.5°	1463.1	423.3	147.9	108.5	109.7	70.4	44.1	26.2	26.2	41.7	54.9
75°	407.8	207.5	106.1	79.9	85.9	51.3	32.2	22.7	25.0	47.7	64.4
77.5°	239.7	152.6	69.2	46.5	58.4	35.8	21.5	17.9	21.5	40.5	62.0
80°	193.2	81.1	40.5	23.8	32.2	20.3	14.3	10.7	6.0	15.5	32.2
82.5°	193.2	48.9	19.1	16.7	16.7	10.7	7.2	4.8	1.2	0.0	8.3
85°	130.0	20.3	11.9	10.7	8.3	3.6	2.4	1.2	0.0	0.0	0.0
87.5°	21.5	8.3	4.8	2.4	1.2	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)