

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: P323451

Luminaire Tested: **GAN-SA7C-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35743 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

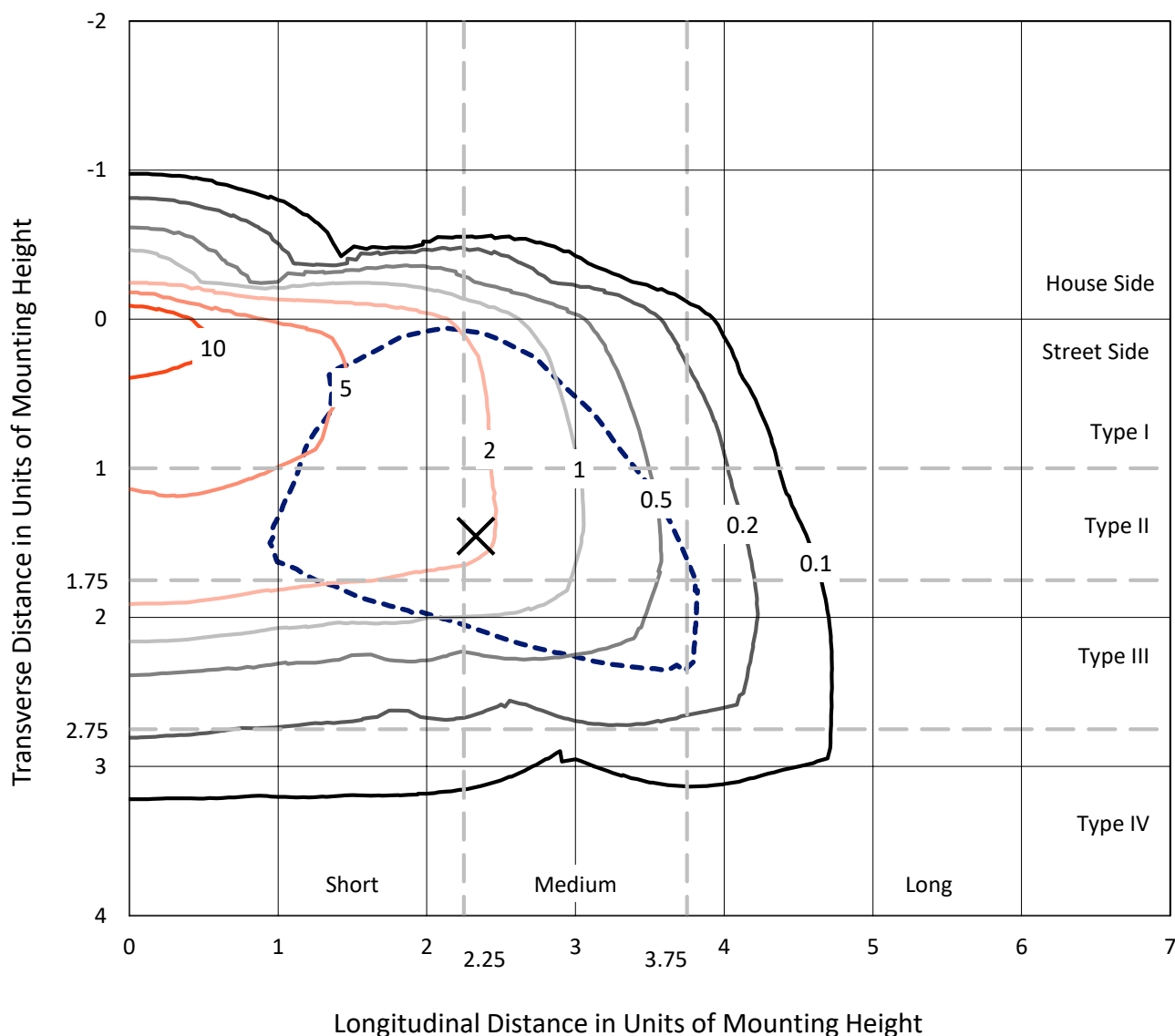
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

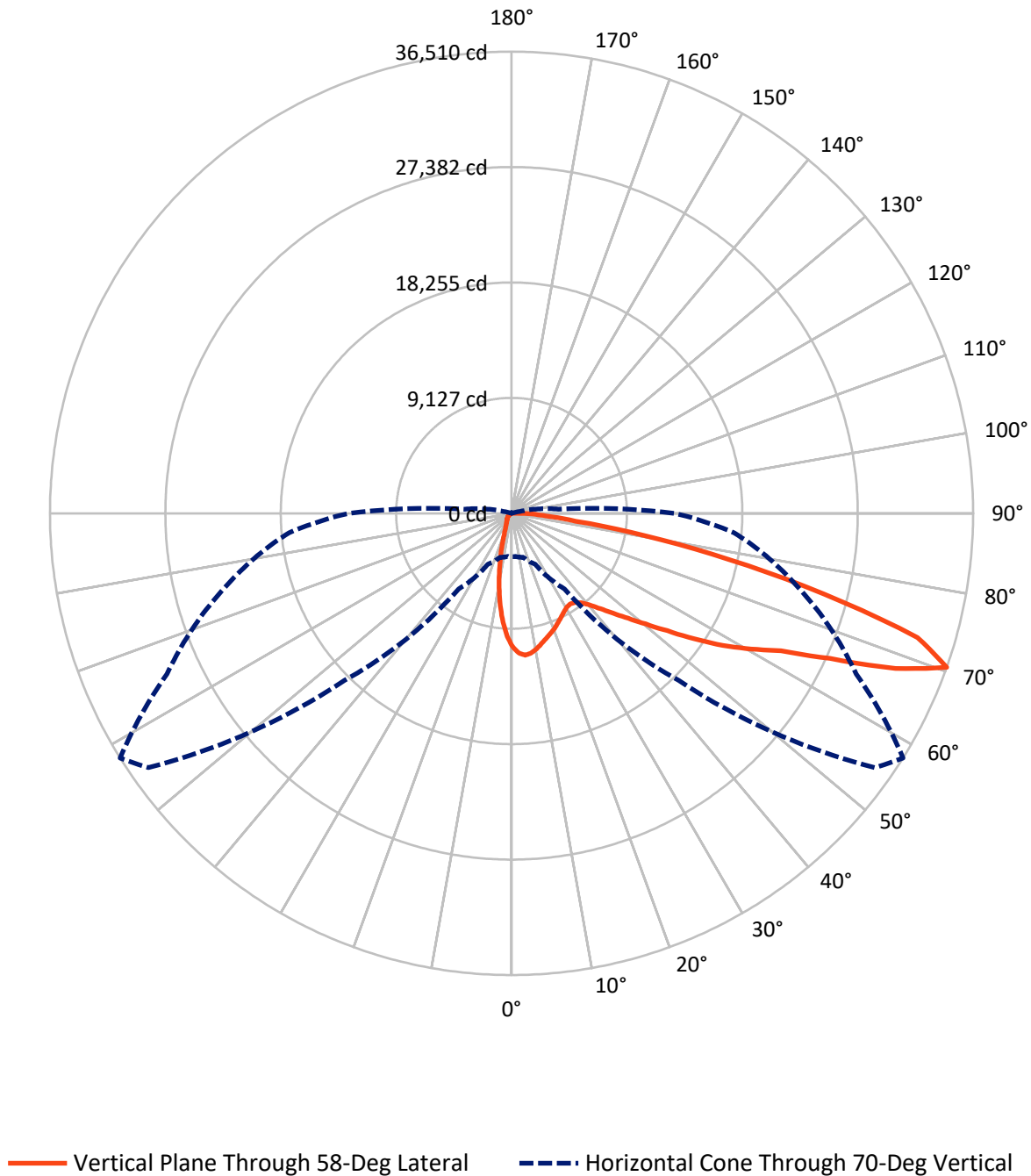
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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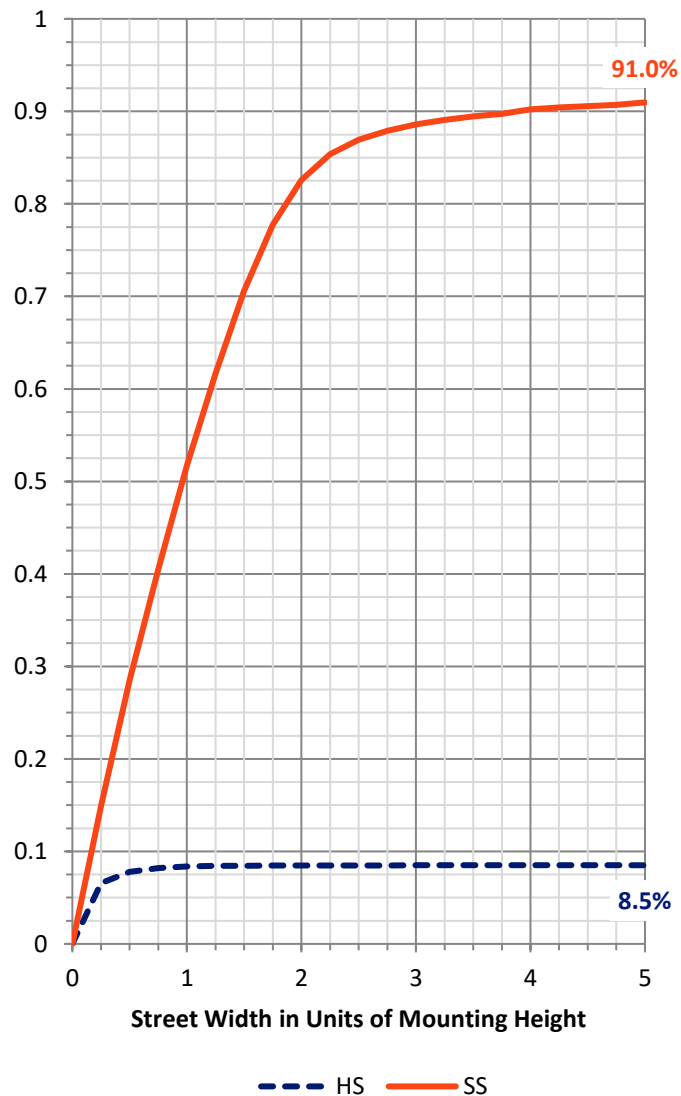
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3058.8	0.0	3058.8
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	32684.2	0.0	32684.2
	% Fixture	91.4	0.0	91.4
Total	Lumens	35743.0	0.0	35743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	863.4	2.4
10°-20°	1812.1	5.1
20°-30°	2382.2	6.7
30°-40°	3155.0	8.8
40°-50°	4715.8	13.2
50°-60°	7554.5	21.1
60°-70°	9522.4	26.6
70°-80°	5136.3	14.4
80°-90°	601.2	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°	35743.0	100.0
0°-180°	35743.0	100.0

Coefficient of Utilization



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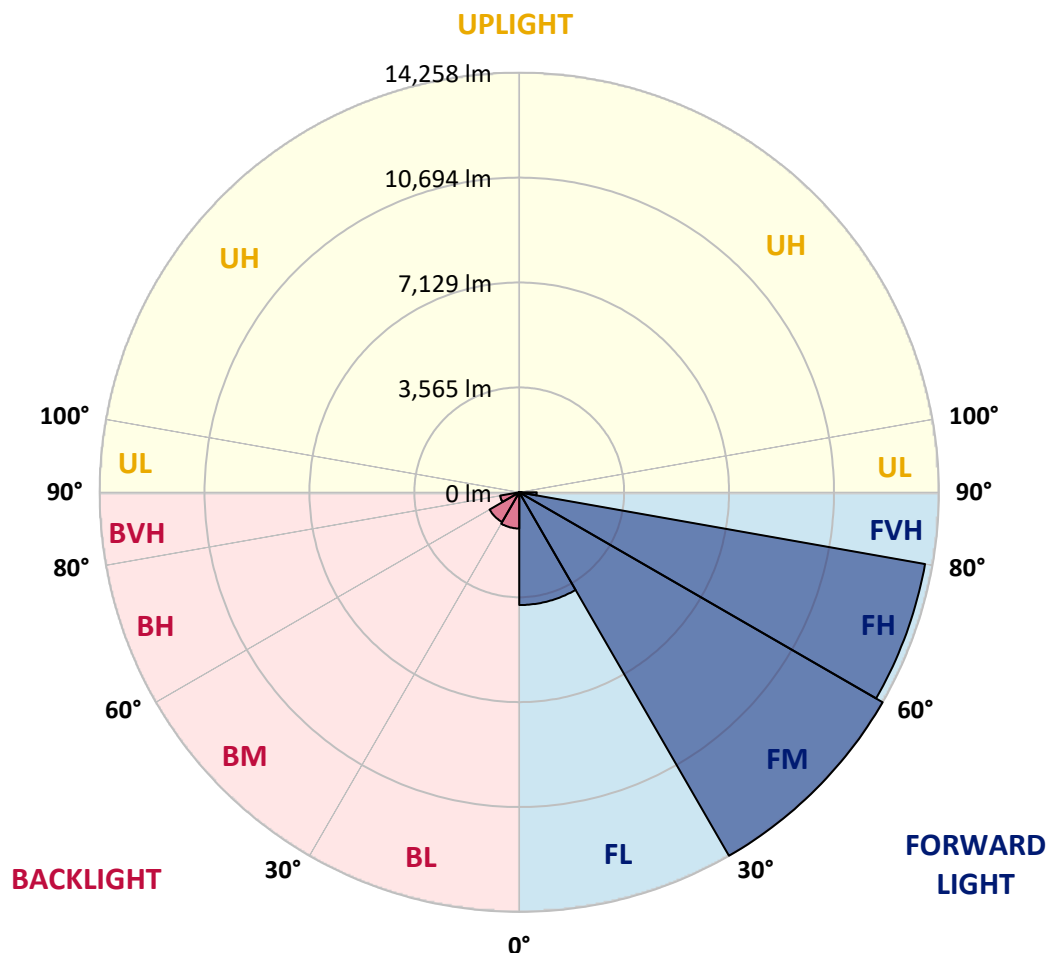
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3828.8	10.7			
FM	(30°-60°)	14258.4	39.9			
FH	(60°-80°)	14000.9	39.2			G5
FVH	(80°-90°)	596.0	1.7			G4/750
BL	(0°-30°)	1228.9	3.4	B3/2500		
BM	(30°-60°)	1166.9	3.3	B2/2500		
BH	(60°-80°)	657.8	1.8	B2/1000		G2/1000
BVH	(80°-90°)	5.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10558.3	10558.3	10558.3	10558.3	10558.3	10558.3	10558.3	10558.3	10558.3	10558.3	10558.3
2.5°	11433.7	11405.5	11395.1	11377.2	11308.9	11242.0	11109.7	11072.6	10989.3	10791.7	10582.1
5°	11442.6	11441.1	11472.4	11464.9	11441.1	11409.9	11314.8	11265.8	11124.6	10842.2	10458.7
7.5°	10891.2	10919.5	10989.3	11045.8	11111.2	11195.9	11207.8	11160.2	11044.3	10739.6	10231.3
10°	10151.1	10195.7	10293.8	10405.2	10576.1	10745.6	10897.2	10891.2	10851.1	10550.9	9957.9
12.5°	9409.4	9461.5	9574.4	9739.4	9981.6	10258.1	10528.6	10565.7	10632.6	10381.4	9705.2
15°	8760.0	8804.5	8916.0	9118.1	9418.4	9789.9	10186.8	10255.1	10427.5	10249.2	9494.2
17.5°	8208.6	8236.8	8318.5	8543.0	8890.7	9341.1	9856.8	9990.6	10247.7	10145.1	9311.4
20°	7823.6	7828.1	7881.6	8039.1	8386.9	8890.7	9515.0	9706.7	10057.4	10056.0	9122.6
22.5°	7633.4	7618.5	7628.9	7719.6	7975.2	8461.2	9173.1	9400.5	9886.5	9980.2	8930.9
25°	7597.7	7585.8	7556.1	7568.0	7722.5	8085.2	8828.3	9091.4	9736.4	9934.1	8764.4
27.5°	7709.2	7721.1	7670.5	7617.0	7628.9	7841.4	8522.2	8826.8	9614.5	9934.1	8647.0
30°	7933.6	7939.5	7902.4	7832.5	7738.9	7773.1	8309.6	8614.3	9553.6	10002.5	8572.7
32.5°	8181.8	8214.5	8210.0	8153.6	8019.8	7881.6	8259.1	8537.0	9549.1	10154.1	8565.3
35°	8489.5	8526.6	8589.0	8577.1	8437.4	8210.0	8431.5	8650.0	9636.8	10403.7	8645.5
37.5°	8816.4	8872.9	9006.7	9070.6	8979.9	8722.8	8817.9	8974.0	9871.7	10808.0	8849.1
40°	9133.0	9196.9	9440.7	9691.8	9623.5	9358.9	9403.5	9528.3	10289.3	11389.1	9235.6
42.5°	9443.6	9538.7	9896.9	10310.1	10391.9	10180.8	10204.6	10304.2	10909.1	12188.7	9867.2
45°	9815.2	9922.2	10452.8	10962.6	11181.1	11088.9	11190.0	11255.4	11719.1	13245.5	10718.8
47.5°	10360.6	10484.0	11135.0	11716.1	12099.6	12159.0	12362.6	12405.7	12743.1	14476.1	11829.1
50°	11424.8	11459.0	12047.5	12575.2	13128.0	13484.7	13716.6	13749.3	13982.6	15821.1	13215.7
52.5°	12763.9	12786.2	13119.1	13472.8	14101.5	14829.8	15372.3	15418.3	15467.4	17132.0	14584.6
55°	14094.1	14091.1	14311.1	14519.2	15238.5	16296.7	17473.8	17502.1	17149.8	18376.0	15630.9
57.5°	14924.9	15005.2	15339.6	15607.1	16611.8	17968.8	19602.1	19706.2	18917.0	19297.5	16665.3
60°	14660.4	14699.0	15440.6	16430.5	18322.5	20345.3	21755.7	21782.5	20245.7	20217.4	17973.2
62.5°	12490.4	12511.2	13676.5	15717.1	19189.0	23427.7	24353.7	23918.2	21773.5	21494.1	19538.2
65°	8560.8	8696.0	9669.5	12191.7	17597.2	25361.4	28375.5	27654.6	24102.5	23334.1	20953.1
67.5°	5041.4	5013.1	5494.7	7352.5	12924.4	24077.2	33462.9	32746.5	27278.6	24566.2	20538.5
70°	3443.6	3424.3	3608.6	4451.3	7296.0	18677.7	35063.6	36509.7	30083.2	23736.9	17676.0
72.5°	2458.3	2468.7	2740.6	3458.5	4580.6	10882.3	30153.0	33575.9	29204.8	20693.0	13435.7
75°	1669.1	1697.3	2086.7	2837.2	4015.8	5536.3	21397.5	25523.4	23781.5	15039.4	7722.5
77.5°	897.7	928.9	1388.2	2285.9	3630.9	3846.4	13764.2	17566.0	14938.3	6760.9	2238.3
80°	374.5	392.4	649.5	1661.6	3137.5	3378.2	8098.6	10651.9	6365.6	1333.2	499.4
82.5°	162.0	170.9	270.5	991.3	2345.3	2852.1	4287.8	5124.6	1929.2	292.8	251.2
85°	31.2	32.7	111.5	524.6	1496.7	1609.6	2779.3	2724.3	866.5	126.3	182.8
87.5°	0.0	0.0	26.8	165.0	439.9	876.9	1695.8	1675.0	294.3	60.9	68.4
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°	10558.3	10558.3	10558.3	10558.3	10558.3	10558.3	10558.3	10558.3	10558.3	10558.3	10558.3
2.5°	10475.1	10372.5	10157.0	9891.0	9687.4	9462.9	9284.6	9058.7	8960.6	8965.1	8911.5
5°	10240.3	10029.2	9552.1	8950.2	8486.5	8007.9	7596.2	7186.0	6943.8	6865.0	6790.7
7.5°	9904.4	9570.0	8809.0	7881.6	7096.8	6329.9	5662.6	5075.5	4704.0	4522.7	4455.8
10°	9525.4	9055.7	7954.4	6732.7	5612.1	4574.7	3709.7	2957.6	2657.4	2453.8	2401.8
12.5°	9192.5	8556.3	7119.1	5554.1	4223.9	2972.5	2147.6	1679.5	1475.8	1395.6	1382.2
15°	8878.9	8089.7	6315.1	4487.0	2924.9	1829.6	1365.9	1206.8	1159.3	1145.9	1145.9
17.5°	8583.1	7645.3	5528.8	3436.2	1935.1	1282.6	1131.0	1095.4	1080.5	1079.0	1080.5
20°	8273.9	7200.9	4756.0	2517.7	1351.0	1086.4	1044.8	1025.5	1021.1	1021.1	1021.1
22.5°	7978.2	6756.5	4004.0	1798.4	1083.5	991.3	970.5	957.1	952.7	951.2	948.2
25°	7694.3	6334.4	3269.7	1270.7	951.2	908.1	890.3	872.4	859.1	851.6	847.2
27.5°	7461.0	5958.4	2586.1	1019.6	859.1	821.9	799.6	772.8	740.2	725.3	719.3
30°	7275.2	5615.0	1993.1	860.5	772.8	735.7	701.5	655.4	607.9	582.6	581.1
32.5°	7129.5	5277.7	1513.0	761.0	695.6	649.5	600.4	542.5	487.5	459.3	457.8
35°	7058.2	4980.4	1156.3	688.1	627.2	569.2	508.3	444.4	390.9	364.1	361.2
37.5°	7105.8	4729.2	902.2	627.2	569.2	502.4	431.0	364.1	316.6	292.8	291.3
40°	7279.6	4568.7	732.7	575.2	520.2	438.4	361.2	298.7	258.6	239.3	237.8
42.5°	7649.7	4509.3	625.7	532.1	472.6	379.0	300.2	246.7	209.6	196.2	193.2
45°	8268.0	4597.0	552.9	490.5	423.6	322.5	248.2	202.1	169.4	159.0	157.5
47.5°	9091.4	4827.3	500.9	450.3	379.0	272.0	206.6	163.5	138.2	127.8	126.3
50°	10152.6	5193.0	457.8	410.2	337.4	230.4	170.9	129.3	107.0	99.6	99.6
52.5°	11307.4	5628.4	419.1	373.0	295.8	191.7	138.2	99.6	84.7	75.8	75.8
55°	12261.6	6008.9	377.5	344.8	245.2	159.0	105.5	75.8	62.4	58.0	58.0
57.5°	13214.2	6414.7	329.9	295.8	196.2	129.3	80.3	56.5	46.1	43.1	43.1
60°	14449.3	6911.1	283.9	240.8	154.6	98.1	59.4	40.1	34.2	32.7	32.7
62.5°	15807.7	7202.4	242.3	193.2	120.4	72.8	43.1	26.8	25.3	25.3	23.8
65°	16638.6	6790.7	203.6	154.6	93.6	55.0	28.2	19.3	22.3	20.8	17.8
67.5°	15578.9	5316.3	166.5	120.4	72.8	41.6	17.8	13.4	23.8	19.3	14.9
70°	12899.2	3721.6	129.3	84.7	58.0	35.7	11.9	8.9	25.3	19.3	11.9
72.5°	9653.2	2491.0	102.6	56.5	43.1	31.2	10.4	4.5	22.3	16.3	10.4
75°	5274.7	1003.2	81.7	35.7	26.8	22.3	7.4	3.0	14.9	11.9	7.4
77.5°	1388.2	264.6	59.4	23.8	14.9	8.9	4.5	1.5	7.4	5.9	3.0
80°	353.7	102.6	38.6	16.3	10.4	4.5	0.0	0.0	1.5	0.0	0.0
82.5°	188.8	43.1	23.8	11.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	142.7	28.2	13.4	7.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	55.0	8.9	4.5	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)