

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: P318651

Luminaire Tested: **GAN-SA7C-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42091 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

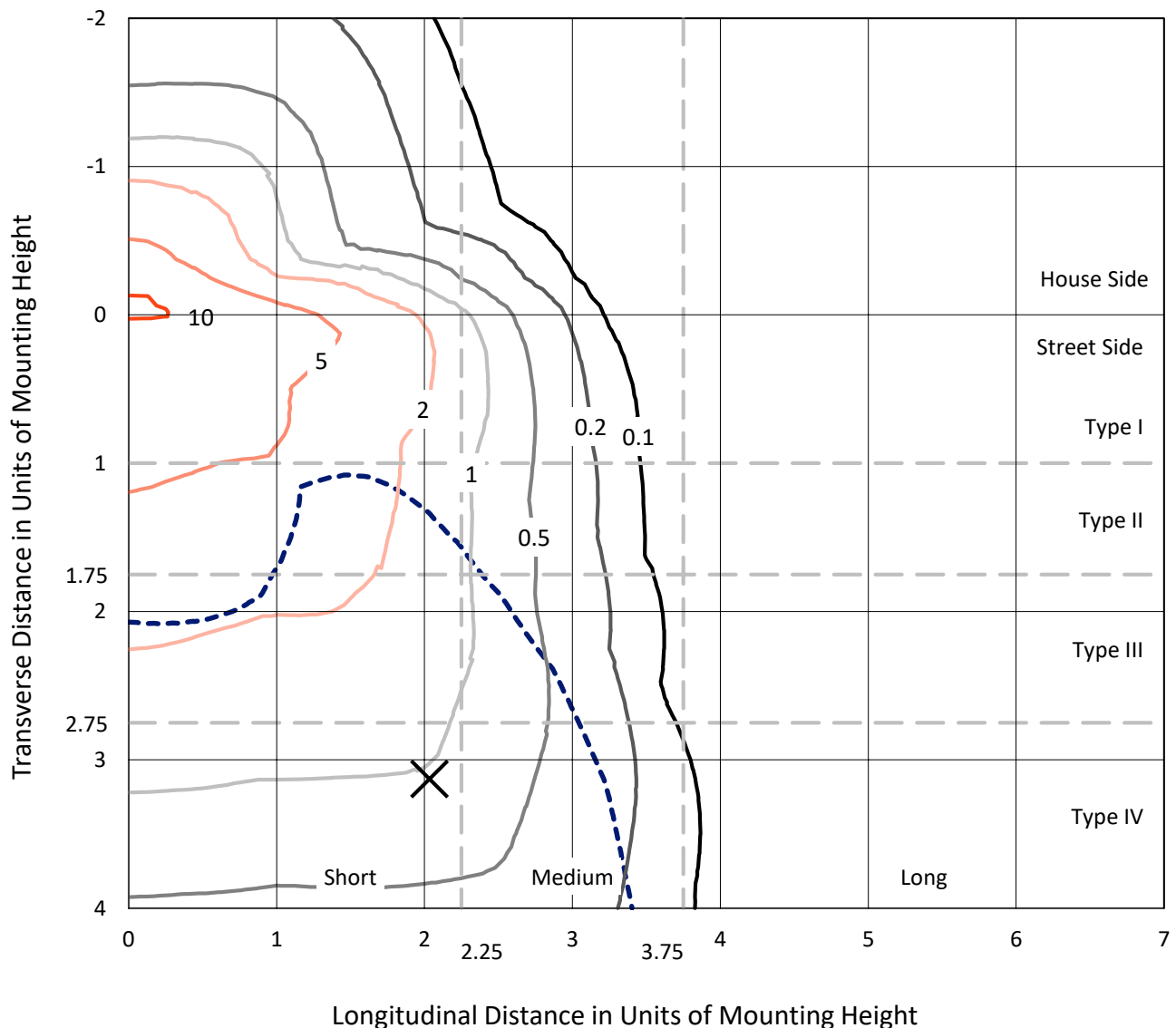
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

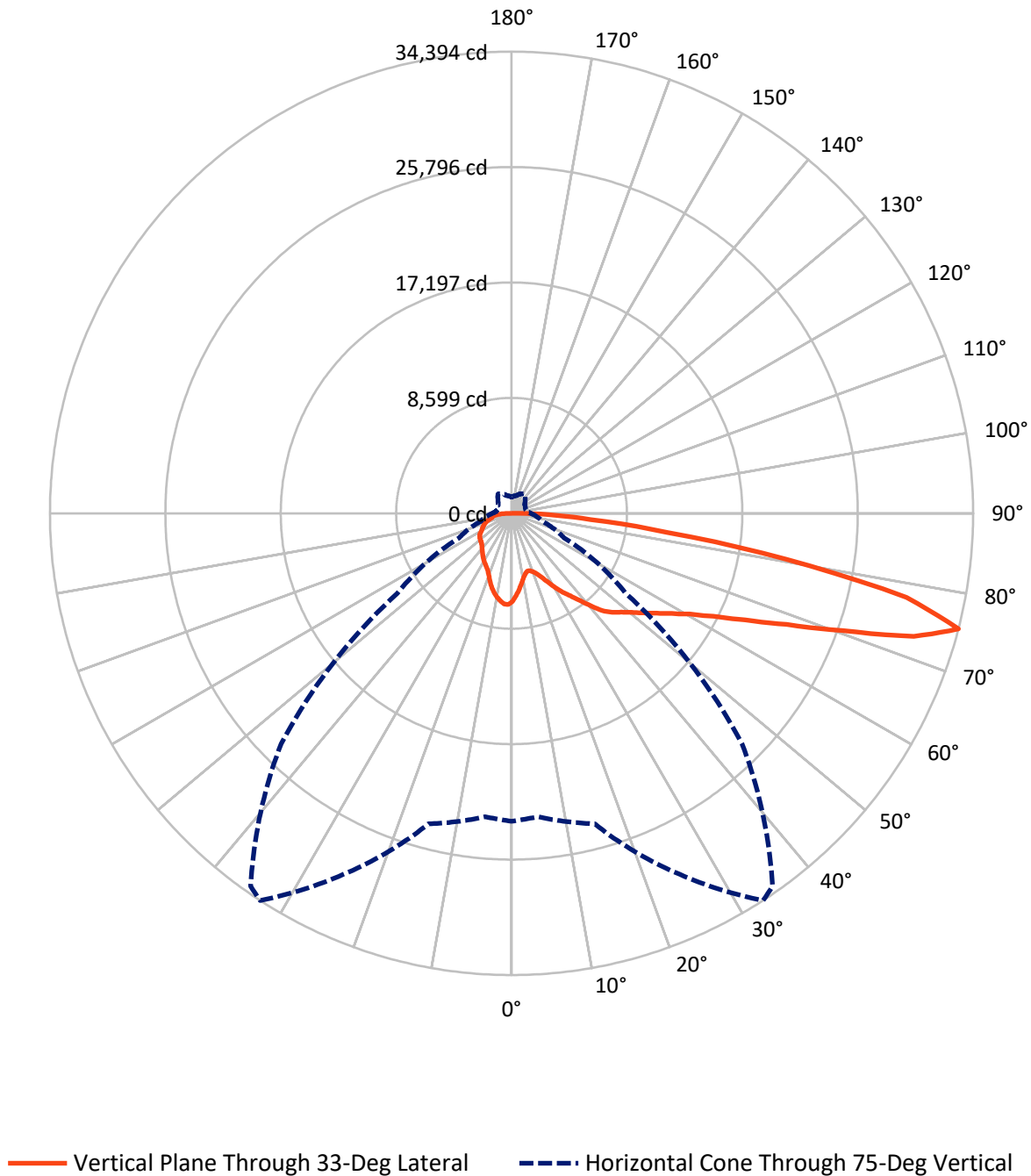
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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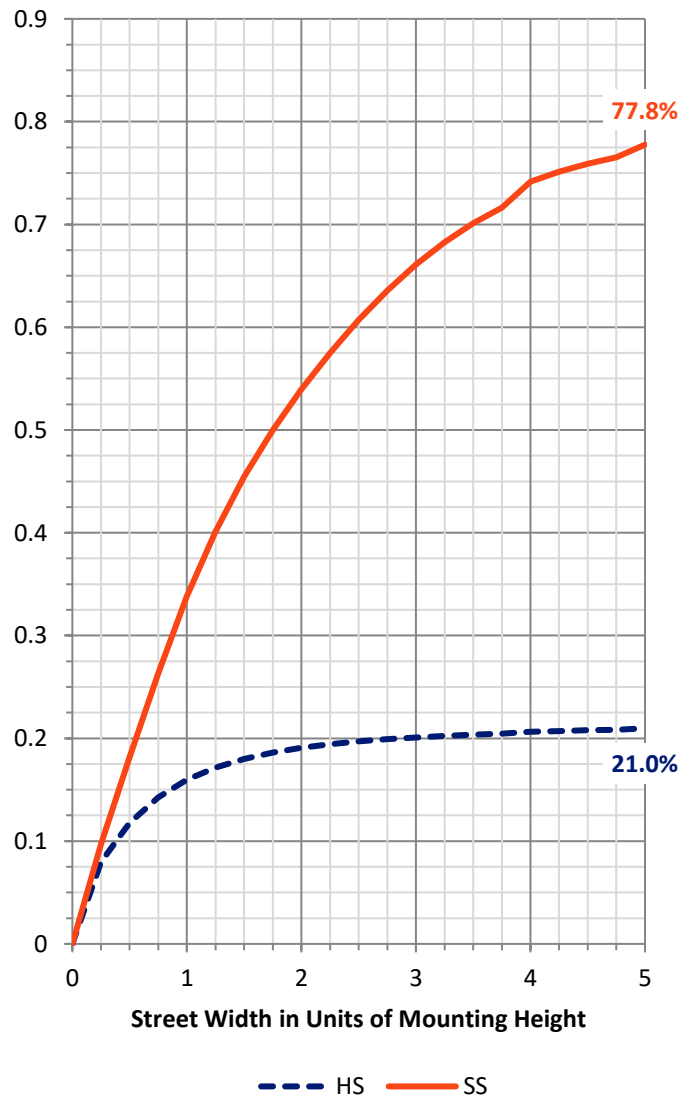
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9038.0	0.0	9038.0
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	33053.0	0.0	33053.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	42091.0	0.0	42091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.0	1.4
10°-20°	1611.5	3.8
20°-30°	2631.8	6.3
30°-40°	3919.4	9.3
40°-50°	5621.4	13.4
50°-60°	7717.4	18.3
60°-70°	9661.8	23.0
70°-80°	8740.6	20.8
80°-90°	1592.1	3.8
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°	42091.0	100.0
0°-180°	42091.0	100.0

Coefficient of Utilization



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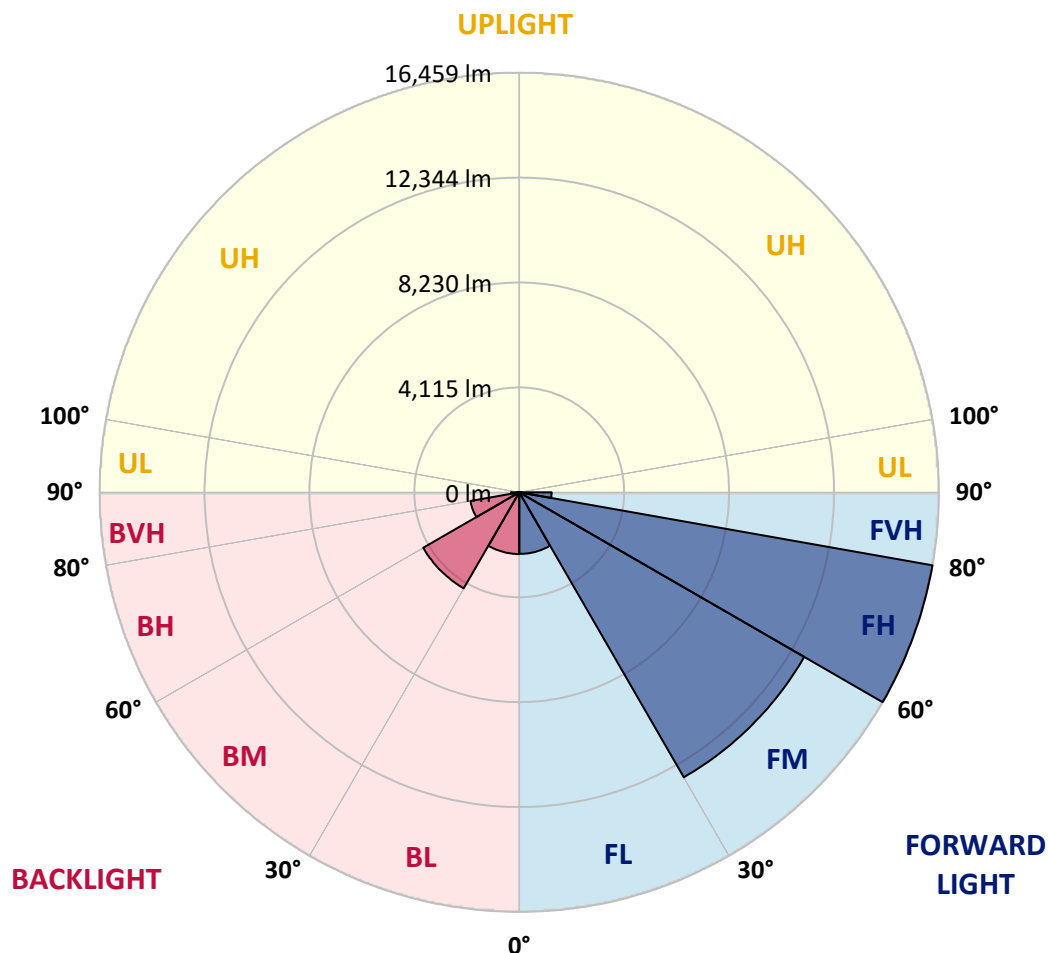
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2417.5	5.7			
FM	(30°-60°)	12908.4	30.7			
FH	(60°-80°)	16459.0	39.1			G5
FVH	(80°-90°)	1268.0	3.0			G5
BL	(0°-30°)	2420.8	5.8	B3/2500		
BM	(30°-60°)	4349.8	10.3	B3/5000		
BH	(60°-80°)	1943.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	324.1	0.8			G3/500
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°	33°	35°	45°	55°	65°	75°	85°
0°	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1
2.5°	6109.4	6086.2	6129.8	6135.6	6173.4	6188.0	6240.3	6321.7	6388.6	6465.7	6535.4
5°	5555.5	5539.5	5600.6	5644.2	5727.1	5761.9	5885.5	6058.6	6212.7	6387.1	6545.6
7.5°	5029.2	5020.4	5088.8	5187.6	5283.6	5331.6	5545.3	5796.8	6054.2	6336.3	6579.1
10°	4585.7	4582.8	4648.2	4745.6	4886.7	4940.5	5216.7	5548.2	5908.8	6297.0	6635.8
12.5°	4337.1	4347.3	4377.8	4459.2	4590.1	4643.9	4950.7	5340.3	5786.7	6283.9	6718.6
15°	4398.2	4414.1	4361.8	4358.9	4452.0	4494.1	4782.0	5192.0	5699.4	6305.7	6839.3
17.5°	4658.4	4661.3	4523.2	4436.0	4492.7	4514.5	4729.7	5107.7	5648.5	6355.2	6990.5
20°	5024.8	5017.5	4773.3	4627.9	4658.4	4664.2	4803.8	5109.1	5644.2	6440.9	7186.8
22.5°	5510.4	5456.6	5128.0	4930.3	4923.0	4914.3	4994.3	5216.7	5708.2	6580.5	7420.9
25°	6144.3	6093.4	5641.3	5370.8	5312.7	5290.9	5302.5	5446.4	5834.6	6730.3	7682.6
27.5°	6849.5	6760.8	6324.6	5942.2	5821.6	5791.0	5721.2	5770.7	5972.8	6874.2	7993.7
30°	7439.8	7391.8	7010.9	6557.3	6414.8	6371.1	6188.0	6134.2	6172.0	7070.5	8386.3
32.5°	7769.8	7737.8	7506.7	7140.3	7008.0	6946.9	6688.1	6580.5	6491.8	7380.2	8918.4
35°	8169.7	8149.3	8009.7	7743.7	7547.4	7483.4	7282.8	7170.8	6942.5	7806.2	9606.2
37.5°	8678.5	8656.7	8659.6	8444.5	8210.4	8150.8	8018.5	7900.7	7527.0	8365.9	10353.5
40°	9254.3	9212.1	9196.1	9186.0	9037.7	9004.2	8934.4	8774.5	8259.8	9034.8	11090.6
42.5°	10120.8	9971.1	9651.2	9771.9	9918.7	9901.3	9958.0	9728.3	9074.0	9825.7	11810.3
45°	10956.9	10711.1	10158.6	10184.8	10506.1	10603.6	11028.1	10865.3	9956.6	10692.2	12554.7
47.5°	11337.8	11151.7	10682.1	10683.5	11001.9	11204.0	12134.5	12018.2	10884.2	11676.6	13463.4
50°	11763.8	11577.7	11156.0	11314.5	11592.2	11807.4	13203.2	13143.6	11766.7	12753.9	14552.4
52.5°	12229.1	11913.5	11646.0	11929.5	12319.2	12569.3	14273.3	14110.4	12576.5	13838.6	15804.3
55°	12234.9	12149.1	12352.6	12560.6	13143.6	13450.4	15394.3	14963.9	13236.6	14904.3	16823.5
57.5°	12931.3	12791.7	13223.5	13319.5	14081.4	14427.4	16509.4	15706.9	13908.3	15721.4	17373.1
60°	13853.1	13733.9	14087.2	14340.2	15241.6	15704.0	17700.2	16470.2	14436.1	16337.9	17346.9
62.5°	15445.2	15309.9	15305.6	15660.3	16874.4	17412.3	19036.4	17219.0	14645.5	16460.0	16606.9
65°	17775.8	17560.6	17155.0	17323.6	19129.4	19665.9	20529.6	17761.3	14369.2	15805.7	14700.7
67.5°	20044.0	20036.7	19538.0	19884.0	22107.1	22537.5	22230.7	17815.1	13507.1	13527.4	11318.9
70°	22304.8	22333.9	22249.6	23453.4	26130.1	26577.9	24042.3	17092.5	11569.0	9769.0	6781.2
72.5°	24096.1	24088.8	24513.4	27617.5	31351.2	31250.9	25568.9	14902.8	8306.3	5273.4	3240.8
75°	22935.8	22682.9	23947.8	29679.2	34394.3	33904.3	24270.5	10395.6	4310.9	2400.4	1744.7
77.5°	14959.5	15199.4	17056.1	24517.7	30084.8	29488.7	17806.4	4850.3	2031.1	1574.6	1264.9
80°	5417.4	5670.3	7986.5	13888.0	20727.3	20629.9	8768.7	1993.3	1374.0	1189.3	921.8
82.5°	1863.9	1957.0	3150.7	6167.6	11702.7	12138.9	3299.0	1132.6	998.9	843.3	631.0
85°	731.3	837.5	1440.9	2967.5	5903.0	5946.6	1336.2	677.5	695.0	552.5	346.0
87.5°	277.7	337.3	689.2	1378.3	2695.6	2476.1	478.3	322.8	395.5	328.6	164.3
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°	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1	6579.1
2.5°	6589.2	6619.8	6683.7	6727.4	6773.9	6787.0	6792.8	6804.4	6816.1	6811.7	6813.1
5°	6629.9	6689.6	6792.8	6836.4	6856.8	6833.5	6788.4	6752.1	6725.9	6711.4	6707.0
7.5°	6696.8	6781.2	6891.7	6884.4	6837.9	6734.6	6618.3	6531.1	6458.4	6432.2	6417.7
10°	6785.5	6884.4	6961.4	6878.6	6743.4	6564.5	6390.0	6254.8	6145.8	6103.6	6096.4
12.5°	6898.9	6999.2	7013.8	6837.9	6614.0	6369.7	6132.7	5953.9	5791.0	5738.7	5727.1
15°	7045.8	7140.3	7050.1	6766.6	6454.0	6125.4	5818.7	5575.8	5404.3	5340.3	5317.0
17.5°	7199.9	7290.0	7057.4	6648.8	6244.7	5836.1	5450.8	5202.2	5005.9	4931.8	4923.0
20°	7384.5	7425.2	7026.9	6480.2	5956.8	5461.0	5055.3	4821.3	4716.6	4664.2	4658.4
22.5°	7612.8	7569.2	6957.1	6251.9	5591.8	5027.7	4697.7	4588.6	4562.5	4550.8	4555.2
25°	7854.2	7720.4	6853.9	5953.9	5130.9	4594.4	4436.0	4466.5	4501.4	4497.0	4497.0
27.5°	8120.2	7874.5	6695.4	5558.4	4620.6	4239.7	4258.6	4370.5	4422.9	4421.4	4420.0
30°	8461.9	8049.0	6493.3	5083.0	4143.7	3989.6	4104.5	4241.1	4312.4	4309.5	4310.9
32.5°	8882.1	8240.9	6218.5	4552.3	3799.1	3804.9	3937.3	4072.5	4155.3	4148.1	4149.5
35°	9373.5	8456.1	5846.3	4028.9	3570.9	3658.1	3762.8	3857.3	3935.8	3925.6	3915.4
37.5°	9908.6	8666.9	5351.9	3560.7	3384.8	3521.4	3608.7	3624.7	3661.0	3634.8	3615.9
40°	10417.4	8828.3	4715.1	3176.8	3197.2	3405.1	3461.8	3397.8	3332.4	3323.7	3297.5
42.5°	10860.9	8882.1	4071.0	2870.1	2999.5	3283.0	3317.9	3184.1	3066.4	3011.1	2987.8
45°	11329.1	8901.0	3470.5	2612.7	2809.0	3173.9	3211.7	3032.9	2867.2	2747.9	2708.7
47.5°	11941.2	9037.7	3003.8	2422.3	2663.6	3101.2	3155.0	2912.2	2697.1	2526.9	2490.6
50°	12742.3	9308.1	2624.4	2276.9	2569.1	3053.3	3114.3	2794.5	2557.5	2352.5	2316.1
52.5°	13632.1	9556.7	2317.6	2159.1	2477.5	2968.9	3062.0	2710.1	2426.6	2191.1	2151.8
55°	14254.4	9366.3	2070.4	2037.0	2358.3	2848.3	2989.3	2638.9	2239.1	2034.1	1999.2
57.5°	14373.6	8714.9	1882.8	1910.5	2214.3	2697.1	2877.3	2480.4	2137.3	1965.7	1929.4
60°	14047.9	7807.6	1743.3	1794.2	2060.2	2506.6	2668.0	2368.5	2039.9	1893.0	1862.5
62.5°	13229.4	6878.6	1640.0	1689.5	1916.3	2313.2	2537.1	2250.7	1941.0	1810.2	1779.6
65°	11576.2	5775.0	1541.2	1596.4	1782.5	2146.0	2419.3	2141.6	1843.6	1743.3	1714.2
67.5°	8738.2	4325.5	1448.1	1497.6	1663.3	2000.6	2291.4	2034.1	1749.1	1685.1	1650.2
70°	5145.5	2708.7	1342.0	1394.3	1538.3	1849.4	2154.7	1916.3	1631.3	1602.2	1557.2
72.5°	2394.6	1629.9	1221.3	1272.2	1381.2	1647.3	1978.8	1762.2	1491.7	1427.8	1366.7
75°	1429.2	1192.2	1078.8	1123.9	1201.0	1432.1	1757.8	1605.1	1359.4	1275.1	1211.1
77.5°	1068.6	911.6	921.8	969.8	1032.3	1253.3	1557.2	1481.6	1257.7	1192.2	1148.6
80°	769.1	692.1	751.7	804.0	869.5	1139.9	1491.7	1369.6	1137.0	1049.7	1009.0
82.5°	513.2	497.2	565.6	619.4	683.3	997.4	1401.6	1199.5	971.2	860.7	770.6
85°	283.5	299.5	380.9	404.2	459.4	702.3	1148.6	964.0	731.3	588.8	562.7
87.5°	117.8	138.1	205.0	197.7	244.3	418.7	756.0	581.6	465.3	347.5	270.4
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)