

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: P194107

Luminaire Tested: **GAN-AF-09-LED-U-T4W-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-T4W-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34838 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
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: 28.75 FT



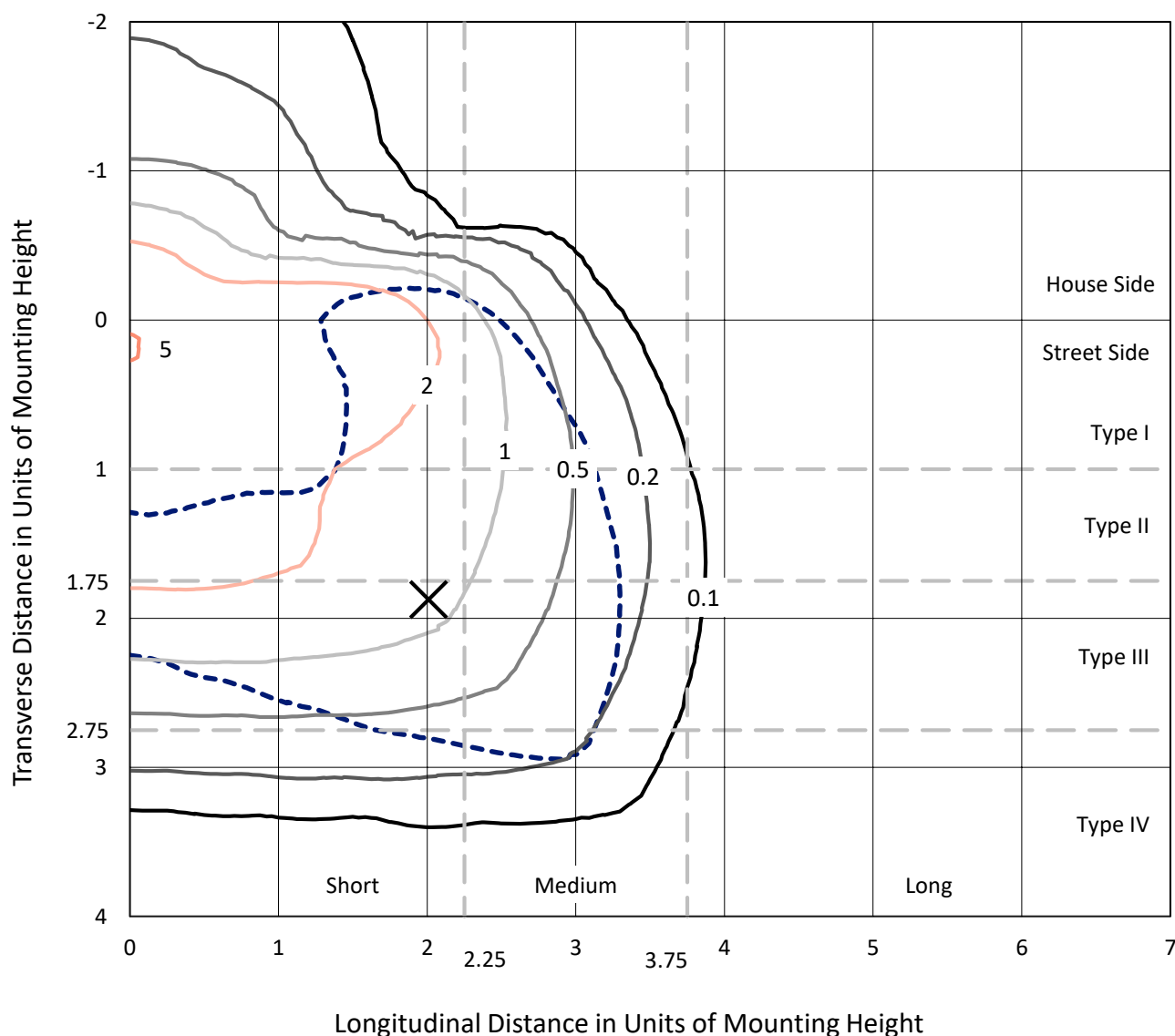
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

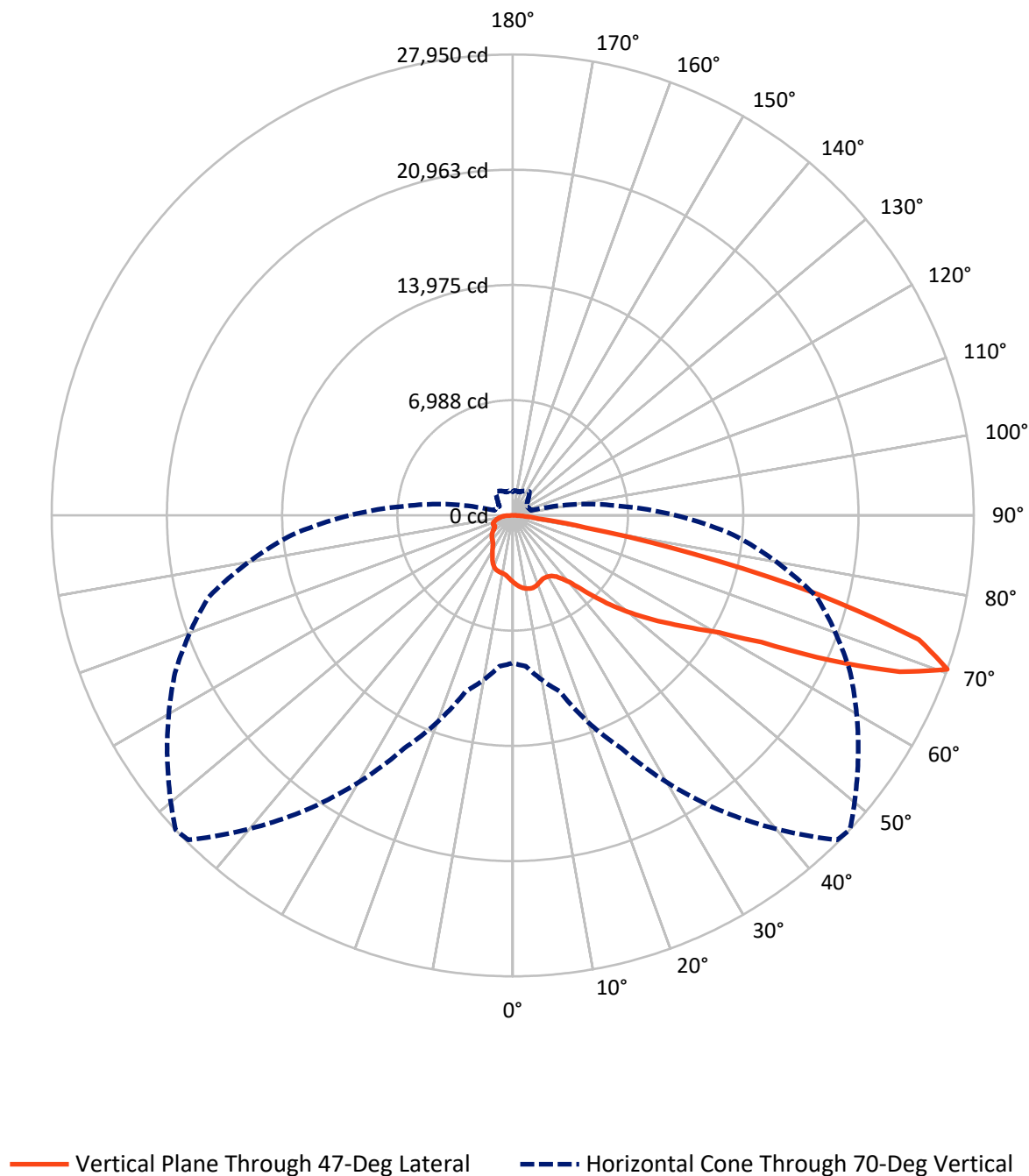


Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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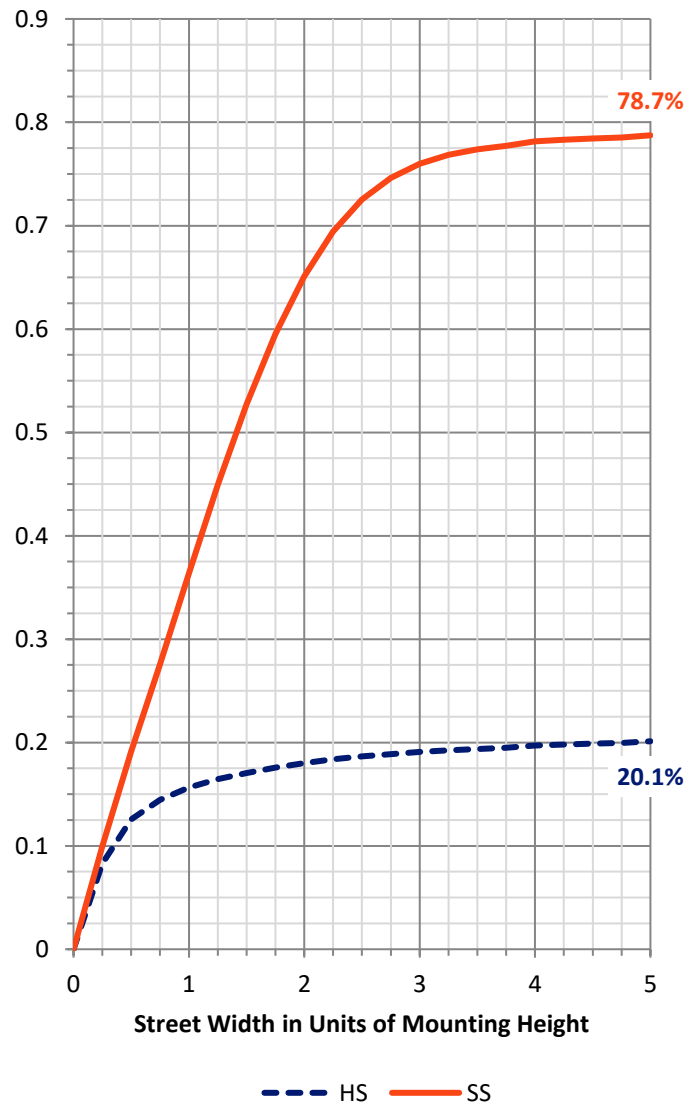
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7267.9	0.0	7267.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	27570.1	0.0	27570.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	34838.0	0.0	34838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.3	1.1
10°-20°	1136.3	3.3
20°-30°	1678.0	4.8
30°-40°	2438.9	7.0
40°-50°	4389.3	12.6
50°-60°	7603.9	21.8
60°-70°	10853.0	31.2
70°-80°	5571.3	16.0
80°-90°	780.0	2.2
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°	34838.0	100.0
0°-180°	34838.0	100.0

Coefficient of Utilization



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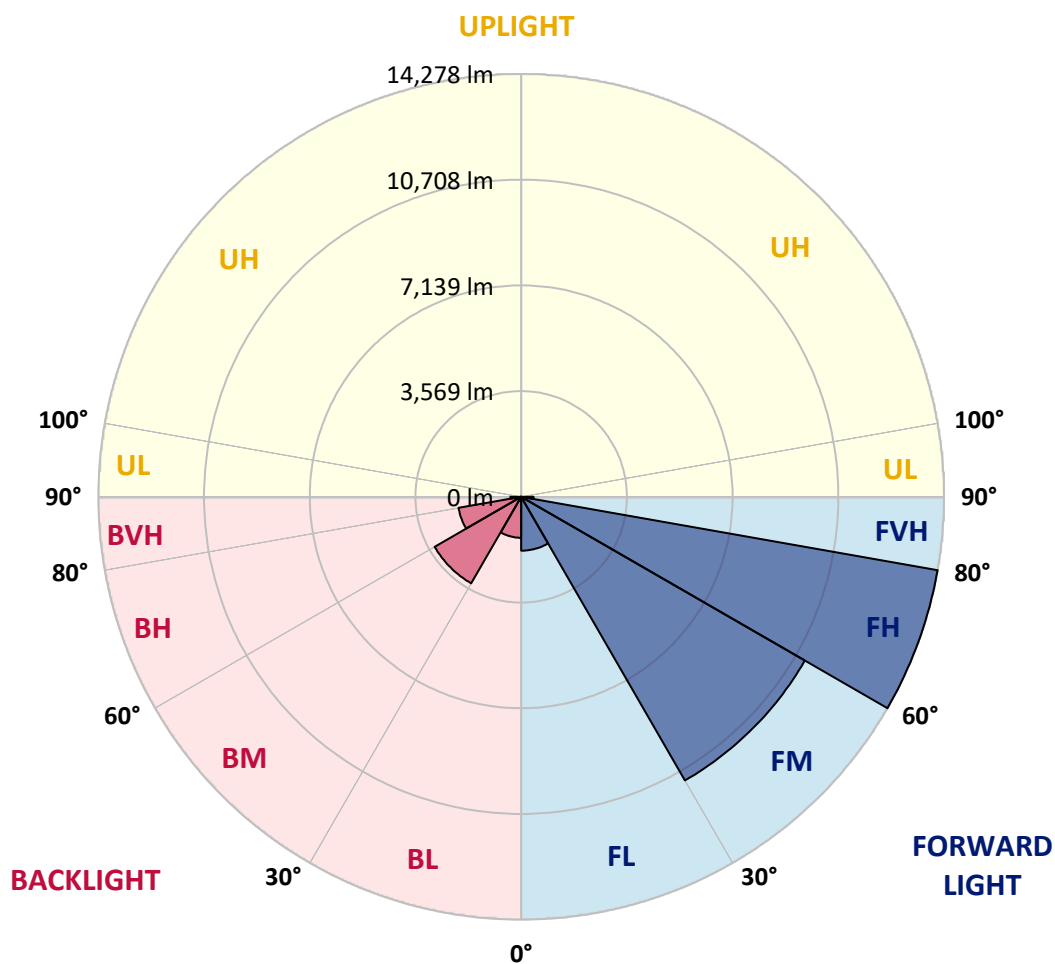
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1817.8	5.2			
FM	(30°-60°)	11058.6	31.7			
FH	(60°-80°)	14277.6	41.0			G5
FVH	(80°-90°)	416.2	1.2			G3/500
BL	(0°-30°)	1383.8	4.0	B3/2500		
BM	(30°-60°)	3373.5	9.7	B3/5000		
BH	(60°-80°)	2146.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	363.8	1.0			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°	35°	45°	47°	55°	65°	75°	85°
0°	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3
2.5°	4279.6	4271.1	4267.7	4260.9	4252.5	4210.1	4201.6	4171.1	4128.7	4084.7	4038.9
5°	4560.9	4559.2	4540.6	4506.7	4452.5	4359.2	4337.2	4262.6	4162.6	4066.0	3969.4
7.5°	4808.4	4793.1	4757.5	4689.7	4594.8	4467.7	4437.2	4333.8	4196.5	4064.3	3933.8
10°	4989.7	4981.3	4903.3	4810.1	4686.3	4545.7	4510.1	4394.8	4244.0	4076.2	3913.5
12.5°	5093.1	5076.2	4986.3	4874.5	4727.0	4589.7	4554.1	4437.2	4267.7	4076.2	3884.7
15°	5086.3	5074.5	4984.6	4862.6	4713.5	4593.1	4560.9	4444.0	4262.6	4059.2	3847.4
17.5°	4950.7	4955.8	4879.6	4759.2	4637.2	4545.7	4516.9	4408.4	4228.7	4025.3	3803.3
20°	4713.5	4737.2	4686.3	4579.6	4511.8	4449.1	4430.4	4338.9	4176.2	3976.2	3755.9
22.5°	4476.2	4498.2	4477.9	4388.0	4377.9	4340.6	4330.4	4264.3	4130.4	3945.7	3727.0
25°	4301.6	4321.9	4318.6	4240.6	4271.1	4269.4	4260.9	4228.7	4120.3	3945.7	3732.1
27.5°	4254.2	4260.9	4254.2	4183.0	4225.3	4259.2	4252.5	4247.4	4150.8	3994.8	3796.5
30°	4416.9	4406.7	4354.2	4210.1	4249.1	4296.5	4289.7	4293.1	4242.3	4123.6	3940.6
32.5°	5066.0	5020.2	4854.1	4449.1	4345.7	4371.1	4374.5	4430.4	4438.9	4321.9	4164.3
35°	6037.2	5986.3	5771.1	5089.7	4645.7	4557.5	4557.5	4642.3	4693.1	4606.7	4511.8
37.5°	7066.0	7010.0	6894.8	5977.8	5276.2	4881.3	4872.8	4932.1	5005.0	5025.3	5049.1
40°	8235.4	8176.1	8208.3	6974.4	6155.8	5442.3	5321.9	5279.6	5476.2	5606.7	5796.5
42.5°	9515.1	9487.9	9499.8	8084.6	7157.5	6281.2	6110.0	5891.4	6128.7	6360.9	6759.2
45°	10699.8	10723.5	10711.7	9272.7	8272.7	7304.9	7123.6	6699.9	6932.1	7330.4	7979.5
47.5°	11737.1	11638.8	11791.3	10571.0	9521.8	8450.7	8227.0	7659.2	7894.8	8386.3	9484.6
50°	12996.4	12982.8	12759.1	12303.1	11032.0	9601.5	9308.3	8650.7	9016.8	9699.8	11381.1
52.5°	14320.1	14074.3	13869.2	13650.6	12633.6	10781.1	10421.8	9638.8	10335.4	11194.7	13692.9
55°	14591.2	14481.1	14735.3	15103.1	14177.7	12006.5	11587.9	10877.7	11820.1	12903.1	16359.0
57.5°	15170.9	15169.2	15694.6	16350.5	15767.5	13306.5	12884.5	12374.3	13489.6	14860.7	19189.4
60°	15562.4	15672.6	16648.8	17921.7	17328.5	14808.2	14420.1	14101.4	15387.8	17048.8	21826.7
62.5°	15767.5	15916.6	17248.8	18559.0	19535.2	17308.1	16920.0	16460.7	17899.6	19448.8	23369.0
65°	14915.0	15208.2	17155.6	19109.8	21467.4	21360.6	21186.0	20379.3	21040.3	21345.3	22811.4
67.5°	12555.7	12855.7	15123.4	18596.2	22847.0	25269.0	25306.3	23928.3	22972.4	21508.0	19179.3
70°	8945.6	9181.2	11057.4	15591.2	21796.2	27823.2	27950.3	25563.9	22587.7	19074.2	13399.7
72.5°	4247.4	4391.4	6167.7	10147.3	17296.3	25492.7	25738.5	23475.8	19206.4	14121.8	7310.0
75°	1561.0	1605.1	2084.7	4316.9	10032.0	18799.6	19089.5	16828.5	12732.0	7030.4	2784.7
77.5°	935.6	964.4	1169.5	1822.0	3945.7	10745.5	11174.4	9152.4	5564.3	2616.9	1369.5
80°	654.2	674.6	839.0	1133.9	1864.4	4094.8	4476.2	3735.5	2216.9	1655.9	996.6
82.5°	442.4	452.5	589.8	766.1	1239.0	1462.7	1577.9	1661.0	1494.9	1232.2	632.2
85°	289.8	300.0	400.0	505.1	788.1	755.9	772.9	977.9	1091.5	837.3	350.8
87.5°	166.1	172.9	240.7	269.5	386.4	320.3	323.7	515.2	698.3	564.4	213.6
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°	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3
2.5°	4027.0	4005.0	3955.9	3925.3	3896.5	3889.8	3877.9	3876.2	3874.5	3874.5	3869.4
5°	3937.2	3899.9	3823.7	3781.3	3745.7	3742.3	3740.6	3749.1	3752.5	3755.9	3750.8
7.5°	3879.6	3828.7	3733.8	3672.8	3630.4	3620.3	3637.2	3676.2	3701.6	3711.8	3706.7
10°	3844.0	3781.3	3671.1	3605.0	3569.4	3564.3	3586.4	3632.1	3684.7	3705.0	3703.3
12.5°	3803.3	3732.1	3615.2	3545.7	3525.4	3535.5	3564.3	3606.7	3660.9	3693.1	3694.8
15°	3762.6	3679.6	3559.3	3498.2	3489.8	3503.3	3530.4	3562.6	3605.0	3637.2	3640.6
17.5°	3713.5	3627.0	3506.7	3444.0	3437.2	3444.0	3445.7	3462.6	3489.8	3520.3	3528.7
20°	3660.9	3572.8	3447.4	3384.7	3354.2	3327.1	3296.5	3299.9	3308.4	3338.9	3345.7
22.5°	3623.7	3535.5	3401.6	3315.2	3233.8	3152.5	3091.5	3083.0	3086.4	3111.8	3120.3
25°	3627.0	3533.8	3389.8	3240.6	3062.7	2932.1	2850.8	2837.2	2835.5	2854.2	2866.0
27.5°	3693.1	3599.9	3433.8	3164.3	2876.2	2683.0	2596.6	2586.4	2572.8	2577.9	2591.5
30°	3840.6	3754.2	3540.6	3086.4	2674.5	2438.9	2349.1	2338.9	2320.3	2311.8	2322.0
32.5°	4081.3	4010.1	3696.5	3011.8	2472.8	2230.5	2138.9	2116.9	2105.0	2094.9	2103.3
35°	4481.3	4450.8	3905.0	2930.5	2294.9	2069.5	1986.4	1952.5	1935.6	1954.2	1967.8
37.5°	5108.4	5125.3	4177.9	2803.3	2157.6	1962.7	1893.2	1854.2	1828.8	1844.0	1859.3
40°	5996.5	6008.4	4479.6	2623.7	2038.9	1900.0	1825.4	1789.8	1754.2	1727.1	1725.4
42.5°	7162.6	7042.2	4776.2	2428.8	1901.7	1861.0	1777.9	1733.9	1679.6	1605.1	1589.8
45°	8545.6	8123.6	5001.6	2205.0	1747.4	1813.5	1725.4	1664.4	1579.6	1498.3	1489.8
47.5°	10138.8	9284.6	5111.8	1972.8	1603.4	1744.0	1661.0	1564.4	1457.6	1416.9	1411.8
50°	12084.5	10662.5	5164.3	1747.4	1477.9	1652.5	1567.8	1454.2	1364.4	1355.9	1350.8
52.5°	14299.7	12320.1	5181.3	1562.7	1374.5	1533.9	1491.5	1381.3	1310.1	1316.9	1316.9
55°	16618.3	14031.9	4950.7	1428.8	1279.6	1411.8	1440.6	1352.5	1293.2	1320.3	1330.5
57.5°	18747.1	15548.8	4225.3	1325.4	1189.8	1318.6	1422.0	1379.6	1339.0	1449.1	1455.9
60°	20381.0	16445.4	3155.9	1232.2	1123.7	1286.4	1471.2	1483.0	1493.2	1755.9	1791.5
62.5°	20723.3	16147.1	2169.4	1159.3	1093.2	1313.5	1561.0	1562.7	1550.8	1733.9	1755.9
65°	19152.2	14260.7	1577.9	1118.6	1067.8	1362.7	1637.3	1601.7	1523.7	1662.7	1622.0
67.5°	15209.9	10743.9	1313.5	1088.1	1030.5	1359.3	1718.6	1637.3	1508.4	1628.8	1562.7
70°	9872.7	6496.5	1169.5	1062.7	986.4	1294.9	1766.1	1633.9	1464.4	1515.2	1437.3
72.5°	4816.9	2905.0	1072.9	1025.4	940.7	1205.1	1764.4	1603.4	1418.6	1415.2	1372.9
75°	1884.7	1330.5	984.7	969.5	862.7	1103.4	1716.9	1559.3	1364.4	1310.1	1294.9
77.5°	1103.4	949.1	872.9	886.4	769.5	1001.7	1647.4	1483.0	1289.8	1225.4	1208.5
80°	803.4	710.2	744.1	766.1	657.6	900.0	1554.2	1389.8	1206.8	1239.0	1215.2
82.5°	515.2	457.6	603.4	625.4	547.4	796.6	1452.5	1291.5	1089.8	989.8	966.1
85°	262.7	289.8	449.1	476.3	422.0	654.2	1328.8	1161.0	957.6	823.7	837.3
87.5°	147.5	198.3	286.4	320.3	298.3	503.4	1077.9	957.6	781.3	635.6	559.3
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)