

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: P193308

Luminaire Tested: **GAN-AF-10-LED-U-T4W-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193308
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-10-LED-U-T4W-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 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: 45717.4 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 419
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

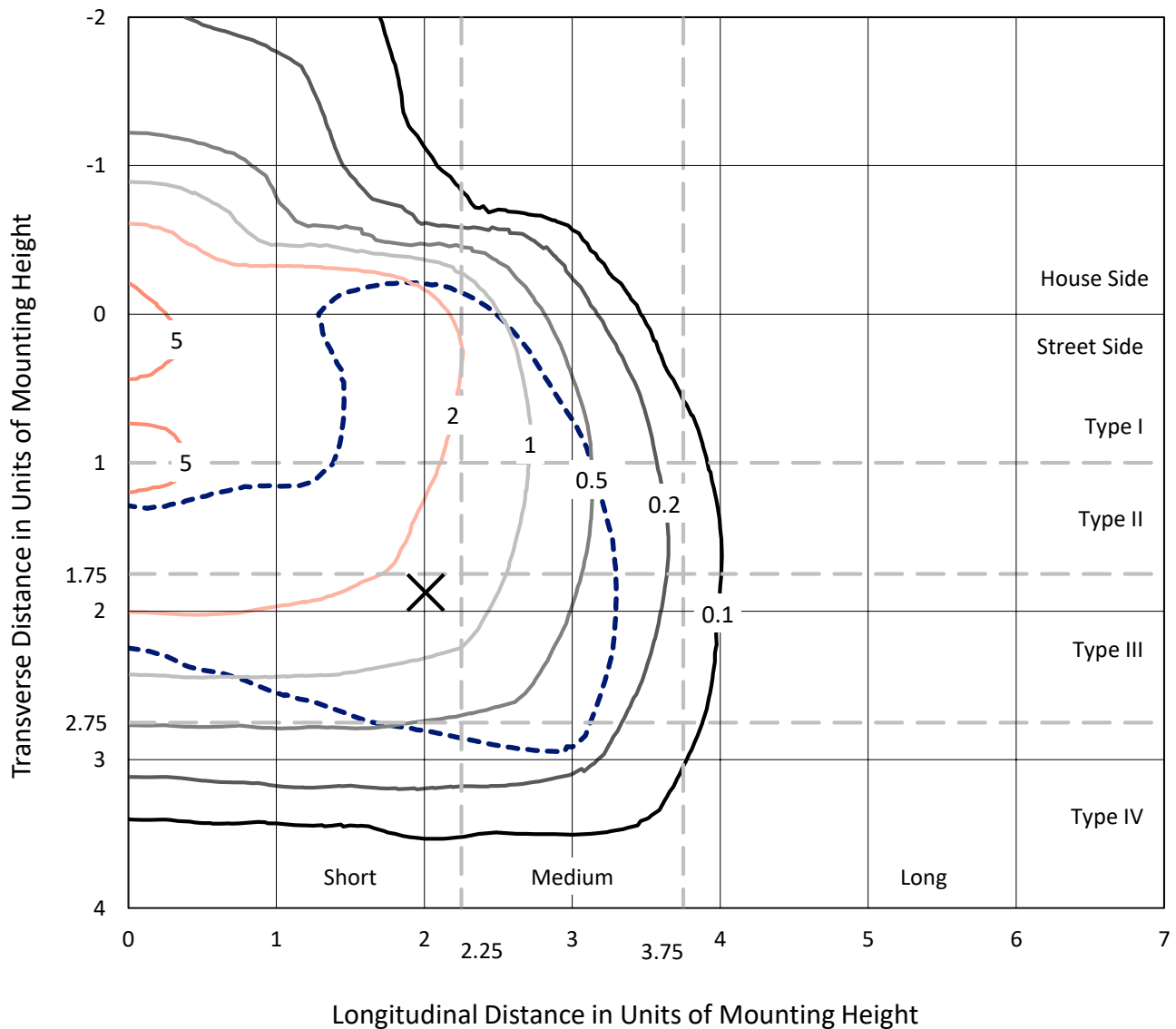


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

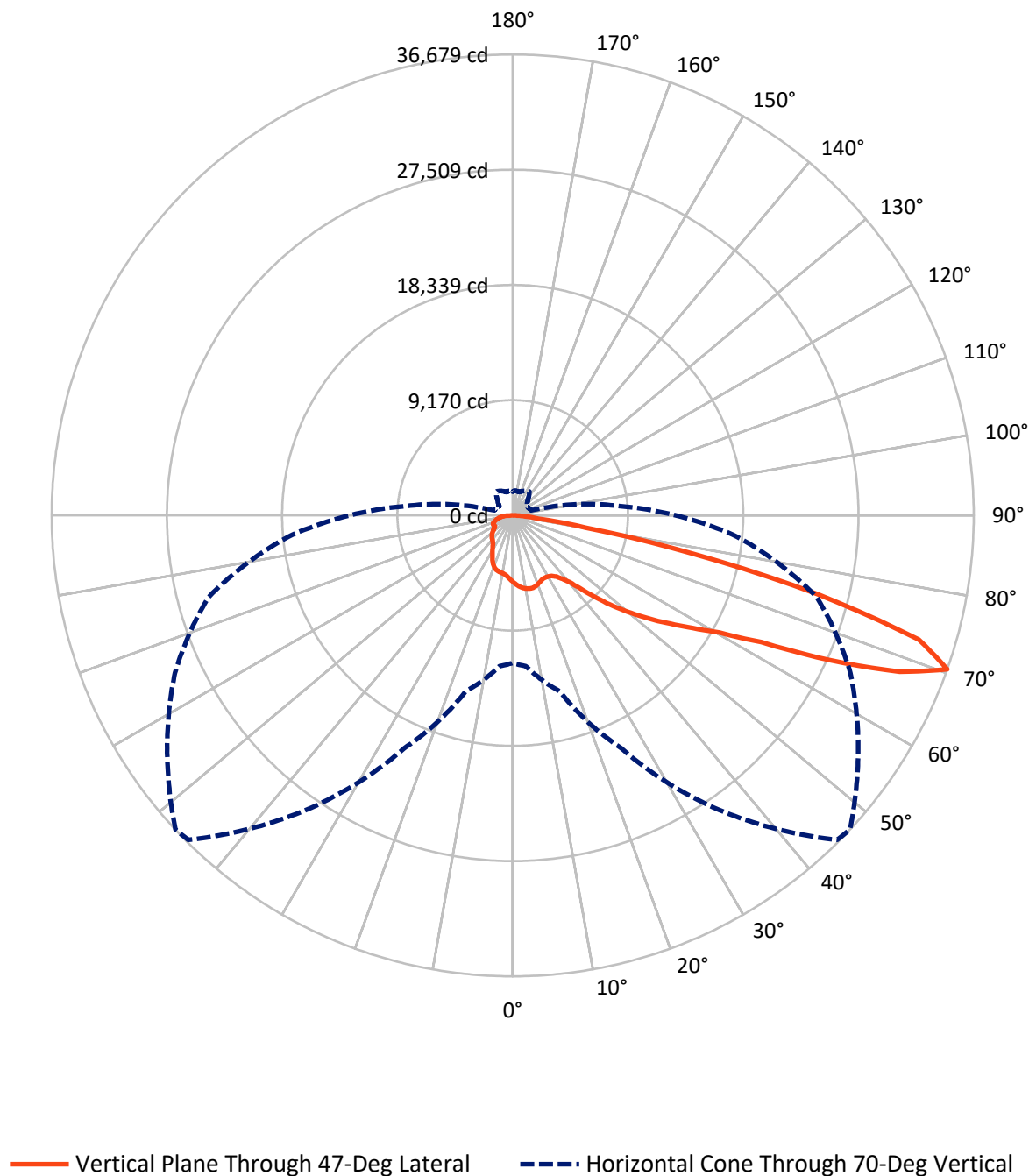


Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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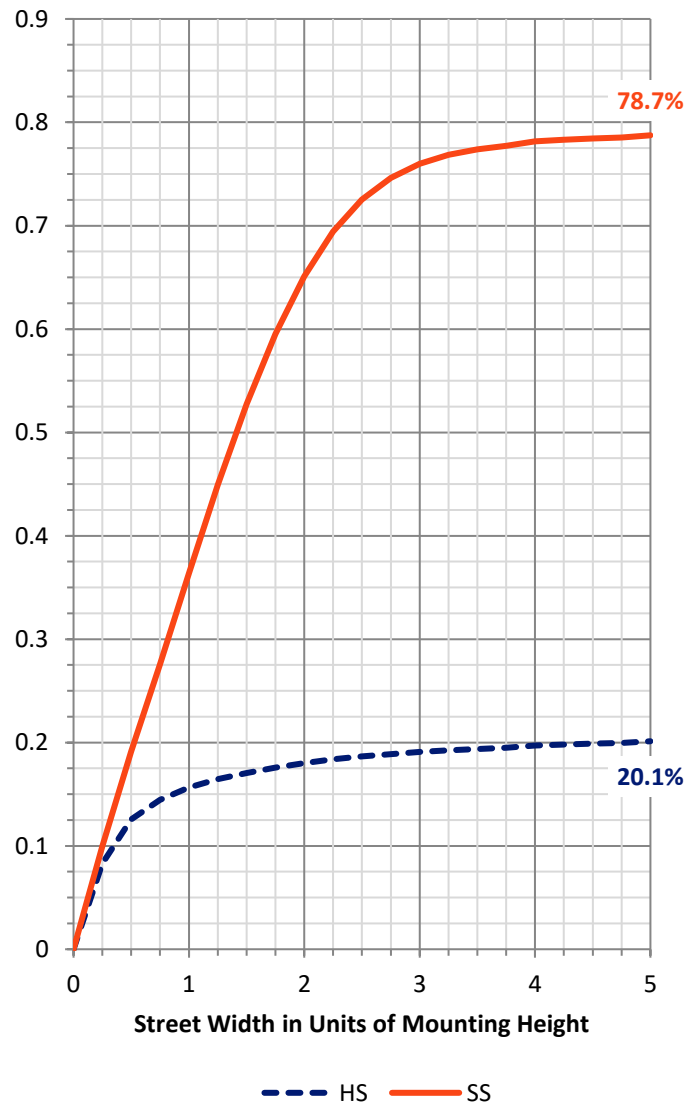
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9537.5	0.0	9537.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	36179.8	0.0	36179.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	45717.4	0.0	45717.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.3	1.1
10°-20°	1491.1	3.3
20°-30°	2202.0	4.8
30°-40°	3200.6	7.0
40°-50°	5759.9	12.6
50°-60°	9978.5	21.8
60°-70°	14242.2	31.2
70°-80°	7311.2	16.0
80°-90°	1023.6	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°	45717.4	100.0
0°-180°	45717.4	100.0

Coefficient of Utilization



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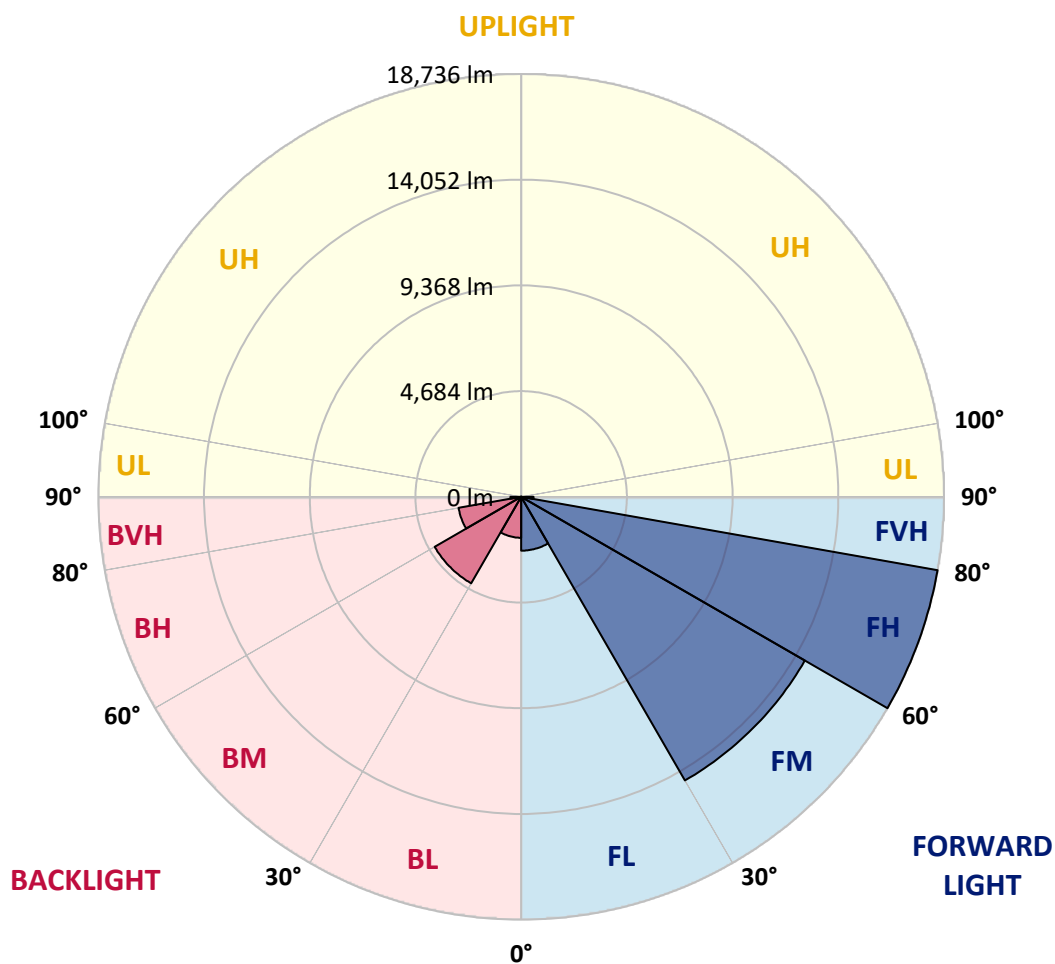
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2385.4	5.2			
FM	(30°-60°)	14512.0	31.7			
FH	(60°-80°)	18736.2	41.0			G5
FVH	(80°-90°)	546.2	1.2			G4/750
BL	(0°-30°)	1816.0	4.0	B3/2500		
BM	(30°-60°)	4427.0	9.7	B3/5000		
BH	(60°-80°)	2817.1	6.2	B4/5000		G4/5000
BVH	(80°-90°)	477.4	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5304.6	5304.6	5304.6	5304.6	5304.6	5304.6	5304.6	5304.6	5304.6	5304.6	5304.6
2.5°	5616.0	5604.9	5600.4	5591.6	5580.4	5524.8	5513.7	5473.7	5418.0	5360.3	5300.1
5°	5985.2	5983.0	5958.6	5914.1	5842.8	5720.6	5691.7	5593.7	5462.5	5335.7	5209.1
7.5°	6309.9	6289.9	6243.2	6154.2	6029.7	5862.9	5822.9	5687.2	5507.0	5333.6	5162.3
10°	6547.9	6536.9	6434.5	6312.2	6149.7	5965.2	5918.5	5767.2	5569.3	5349.2	5135.6
12.5°	6683.6	6661.4	6543.5	6396.7	6203.2	6023.0	5976.4	5822.9	5600.4	5349.2	5097.8
15°	6674.7	6659.2	6541.3	6381.2	6185.3	6027.5	5985.2	5831.7	5593.7	5326.8	5048.9
17.5°	6496.8	6503.4	6403.3	6245.5	6085.3	5965.2	5927.5	5785.1	5549.3	5282.3	4991.1
20°	6185.3	6216.6	6149.7	6009.7	5920.8	5838.5	5814.0	5693.8	5480.3	5217.9	4928.8
22.5°	5874.0	5902.9	5876.3	5758.4	5745.1	5696.1	5682.8	5596.0	5420.3	5177.9	4891.0
25°	5644.9	5671.6	5667.2	5564.9	5604.9	5602.7	5591.6	5549.3	5406.9	5177.9	4897.6
27.5°	5582.7	5591.6	5582.7	5489.3	5544.8	5589.3	5580.4	5573.8	5447.0	5242.4	4982.1
30°	5796.2	5782.9	5713.9	5524.8	5575.9	5638.3	5629.4	5633.9	5567.1	5411.4	5171.1
32.5°	6648.0	6588.0	6370.1	5838.5	5702.8	5736.1	5740.6	5814.0	5825.0	5671.6	5464.8
35°	7922.5	7855.7	7573.3	6679.1	6096.4	5980.8	5980.8	6092.0	6158.7	6045.4	5920.8
37.5°	9272.5	9199.2	9047.9	7844.6	6923.9	6405.7	6394.5	6472.3	6568.0	6594.7	6625.8
40°	10807.3	10729.4	10771.7	9152.4	8078.2	7141.8	6983.9	6928.2	7186.3	7357.5	7606.6
42.5°	12486.4	12450.8	12466.5	10609.3	9392.7	8242.7	8018.1	7731.1	8042.6	8347.3	8870.0
45°	14041.1	14072.3	14056.7	12168.4	10856.1	9586.2	9348.2	8792.1	9096.8	9619.5	10471.4
47.5°	15402.4	15273.4	15473.6	13872.1	12495.3	11089.7	10796.1	10051.0	10360.2	11005.1	12446.5
50°	17055.0	17037.2	16743.6	16145.2	14477.1	12599.9	12215.0	11352.1	11832.6	12728.9	14935.3
52.5°	18791.9	18469.5	18200.3	17913.4	16578.9	14147.9	13676.4	12648.8	13563.0	14690.6	17969.0
55°	19147.8	19003.3	19336.9	19819.5	18605.1	15756.0	15206.6	14274.7	15511.3	16932.6	21467.7
57.5°	19908.4	19906.3	20595.8	21456.6	20691.4	17462.0	16908.1	16238.6	17702.1	19501.4	25182.0
60°	20422.3	20566.9	21848.0	23518.4	22739.9	19432.6	18923.1	18505.0	20193.2	22372.9	28642.9
62.5°	20691.4	20887.1	22635.4	24354.7	25635.7	22713.2	22203.8	21601.1	23489.4	25522.3	30666.8
65°	19572.7	19957.4	22513.0	25077.5	28171.3	28031.1	27802.1	26743.4	27610.8	28011.2	29935.1
67.5°	16476.7	16870.2	19846.2	24403.6	29981.8	33160.0	33209.1	31400.8	30146.4	28224.6	25168.6
70°	11739.2	12048.3	14510.5	20460.1	28602.8	36511.9	36678.8	33547.1	29641.5	25030.7	17584.3
72.5°	5573.8	5762.8	8093.7	13316.1	22697.6	33453.6	33776.2	30807.0	25204.3	18531.8	9592.9
75°	2048.5	2106.3	2735.8	5665.0	13164.8	24670.4	25050.8	22083.7	16707.9	9225.9	3654.2
77.5°	1227.7	1265.5	1534.6	2391.0	5177.9	14101.2	14663.9	12010.6	7301.9	3434.1	1797.1
80°	858.6	885.2	1101.0	1488.0	2446.6	5373.6	5874.0	4902.0	2909.2	2173.0	1307.9
82.5°	580.5	593.9	774.0	1005.3	1625.9	1919.4	2070.7	2179.7	1961.7	1616.9	829.6
85°	380.3	393.7	524.9	662.7	1034.2	992.0	1014.3	1283.4	1432.4	1098.7	460.4
87.5°	218.0	226.8	315.9	353.7	507.1	420.3	424.8	676.1	916.3	740.7	280.2
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°	5304.6	5304.6	5304.6	5304.6	5304.6	5304.6	5304.6	5304.6	5304.6	5304.6	5304.6
2.5°	5284.7	5255.7	5191.2	5151.1	5113.4	5104.5	5088.9	5086.7	5084.5	5084.5	5077.9
5°	5166.8	5117.8	5017.7	4962.1	4915.3	4910.9	4908.7	4919.8	4924.4	4928.8	4922.1
7.5°	5091.2	5024.4	4899.8	4819.8	4764.1	4750.8	4773.1	4824.3	4857.5	4870.9	4864.2
10°	5044.4	4962.1	4817.6	4730.8	4684.1	4677.4	4706.4	4766.4	4835.4	4862.0	4859.9
12.5°	4991.1	4897.6	4744.1	4653.0	4626.2	4639.5	4677.4	4733.0	4804.2	4846.4	4848.7
15°	4937.7	4828.7	4670.8	4590.6	4579.6	4597.3	4632.9	4675.2	4730.8	4773.1	4777.5
17.5°	4873.2	4759.7	4601.8	4519.5	4510.7	4519.5	4521.7	4544.0	4579.6	4619.6	4630.7
20°	4804.2	4688.6	4524.0	4441.6	4401.6	4366.0	4326.0	4330.5	4341.5	4381.7	4390.5
22.5°	4755.3	4639.5	4463.9	4350.4	4243.7	4137.0	4056.9	4045.8	4050.2	4083.6	4094.7
25°	4759.7	4637.4	4448.4	4252.6	4019.1	3847.8	3741.0	3723.2	3721.1	3745.5	3761.0
27.5°	4846.4	4724.2	4506.2	4152.5	3774.4	3520.9	3407.5	3394.0	3376.3	3383.0	3400.8
30°	5039.9	4926.5	4646.2	4050.2	3509.7	3200.5	3082.6	3069.3	3044.8	3033.8	3047.1
32.5°	5355.8	5262.4	4850.9	3952.4	3245.1	2927.0	2806.9	2778.0	2762.4	2749.1	2760.2
35°	5880.7	5840.7	5124.5	3845.6	3011.5	2715.7	2606.7	2562.2	2540.0	2564.5	2582.3
37.5°	6703.6	6725.9	5482.5	3678.8	2831.4	2575.6	2484.4	2433.2	2399.9	2419.9	2439.9
40°	7869.1	7884.7	5878.4	3443.0	2675.6	2493.3	2395.4	2348.7	2302.0	2266.5	2264.2
42.5°	9399.3	9241.3	6267.6	3187.2	2495.5	2442.2	2333.1	2275.4	2204.2	2106.3	2086.3
45°	11214.3	10660.4	6563.5	2893.6	2293.2	2379.8	2264.2	2184.1	2072.9	1966.1	1955.0
47.5°	13304.9	12183.9	6708.1	2588.9	2104.2	2288.7	2179.7	2052.9	1912.8	1859.4	1852.7
50°	15858.3	13992.2	6777.1	2293.2	1939.5	2168.6	2057.4	1908.3	1790.4	1779.3	1772.6
52.5°	18765.3	16167.4	6799.3	2050.7	1803.8	2012.9	1957.3	1812.7	1719.3	1728.2	1728.2
55°	21807.9	18413.9	6496.8	1875.0	1679.2	1852.7	1890.5	1774.9	1697.1	1732.7	1746.0
57.5°	24601.5	20404.5	5544.8	1739.3	1561.4	1730.4	1866.0	1810.4	1757.1	1901.6	1910.5
60°	26745.6	21581.1	4141.4	1616.9	1474.7	1688.2	1930.6	1946.1	1959.4	2304.3	2350.9
62.5°	27194.8	21189.6	2847.0	1521.3	1434.6	1723.7	2048.5	2050.7	2035.1	2275.4	2304.3
65°	25133.1	18714.2	2070.7	1467.9	1401.2	1788.2	2148.6	2101.8	1999.6	2181.9	2128.5
67.5°	19959.7	14099.1	1723.7	1427.9	1352.3	1783.7	2255.3	2148.6	1979.6	2137.4	2050.7
70°	12955.8	8525.3	1534.6	1394.5	1294.5	1699.3	2317.6	2144.1	1921.7	1988.4	1886.2
72.5°	6321.0	3812.3	1408.0	1345.6	1234.4	1581.4	2315.3	2104.2	1861.7	1857.2	1801.5
75°	2473.3	1746.0	1292.2	1272.3	1132.2	1447.9	2253.0	2046.2	1790.4	1719.3	1699.3
77.5°	1447.9	1245.5	1145.5	1163.3	1009.8	1314.5	2161.9	1946.1	1692.7	1608.1	1585.8
80°	1054.3	931.9	976.4	1005.3	862.9	1181.0	2039.6	1823.9	1583.6	1625.9	1594.7
82.5°	676.1	600.5	791.8	820.7	718.4	1045.4	1906.1	1694.8	1430.1	1298.9	1267.7
85°	344.7	380.3	589.5	625.0	553.8	858.6	1743.8	1523.5	1256.7	1080.9	1098.7
87.5°	193.5	260.2	375.9	420.3	391.4	660.6	1414.6	1256.7	1025.3	834.0	734.0
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)