

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: P193277

Luminaire Tested: **GAN-AF-09-LED-U-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 51775.8 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 501
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

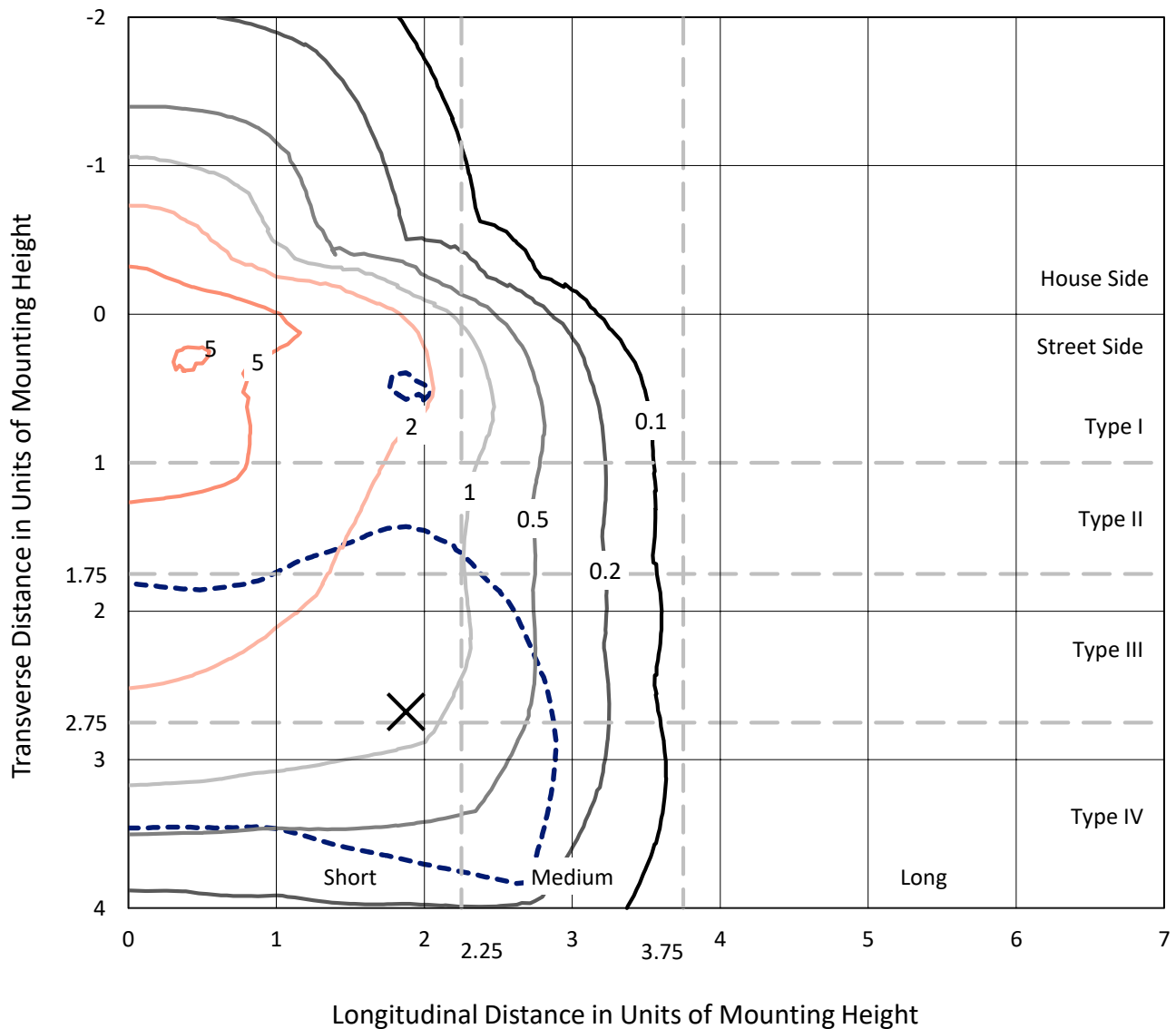


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

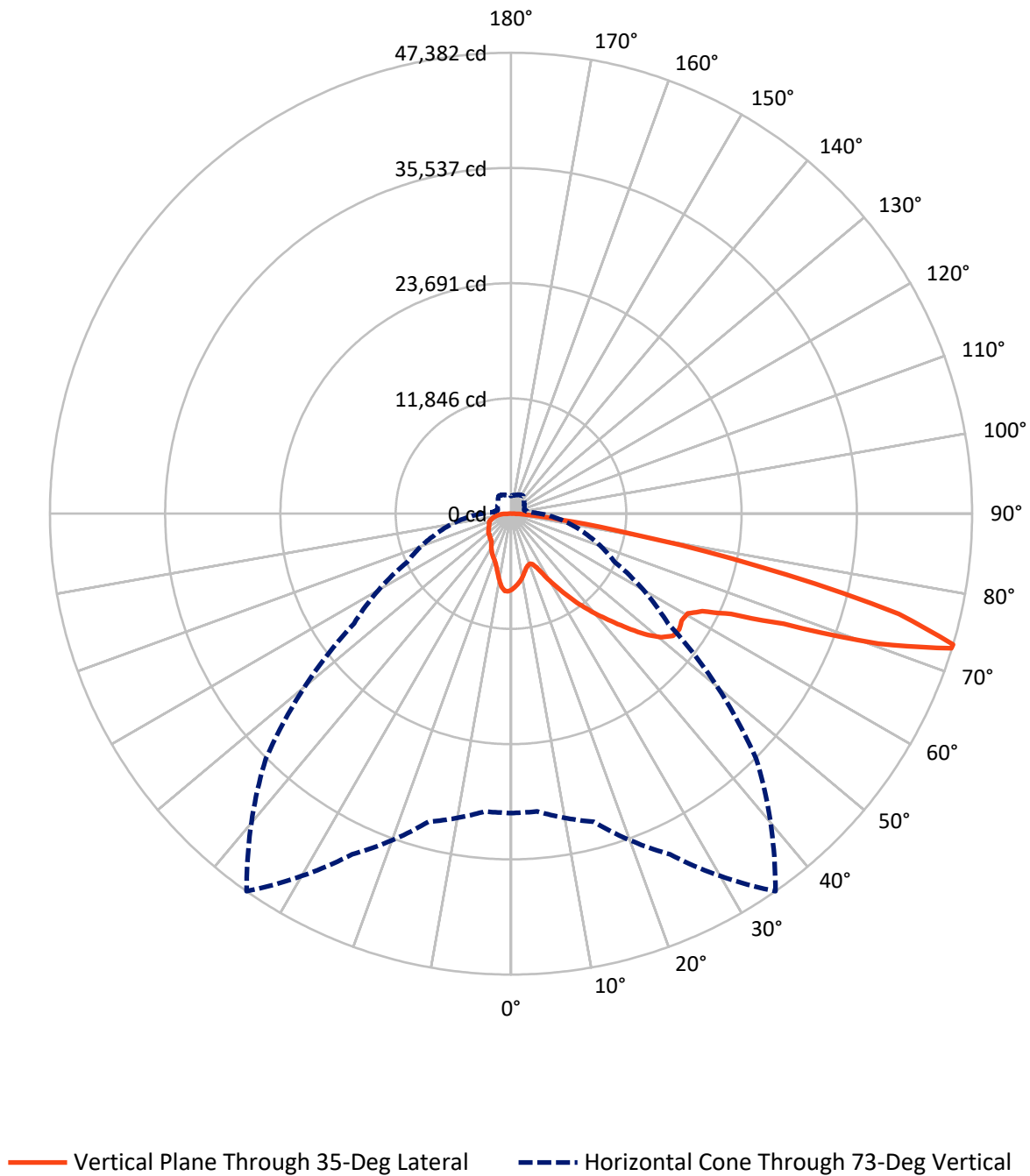


Based on 30 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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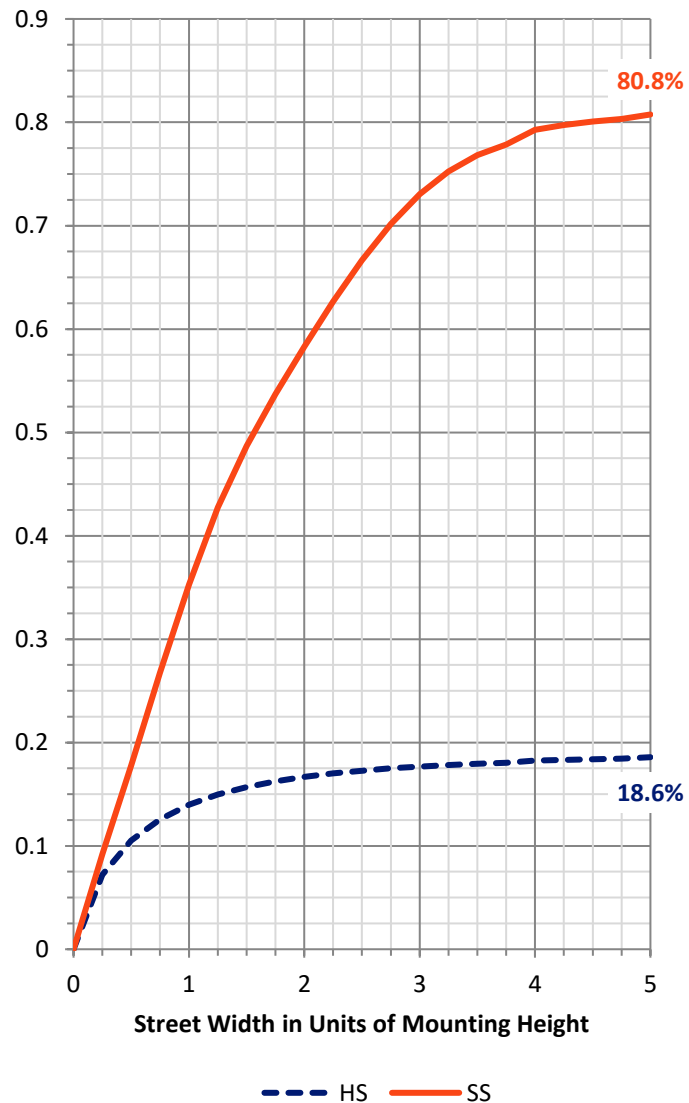
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9875.1	0.0	9875.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	41900.7	0.0	41900.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	51775.8	0.0	51775.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.4	1.4
10°-20°	1765.7	3.4
20°-30°	2854.5	5.5
30°-40°	4786.5	9.2
40°-50°	7378.2	14.3
50°-60°	9898.7	19.1
60°-70°	13187.1	25.5
70°-80°	10057.7	19.4
80°-90°	1140.0	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°	51775.8	100.0
0°-180°	51775.8	100.0

Coefficient of Utilization



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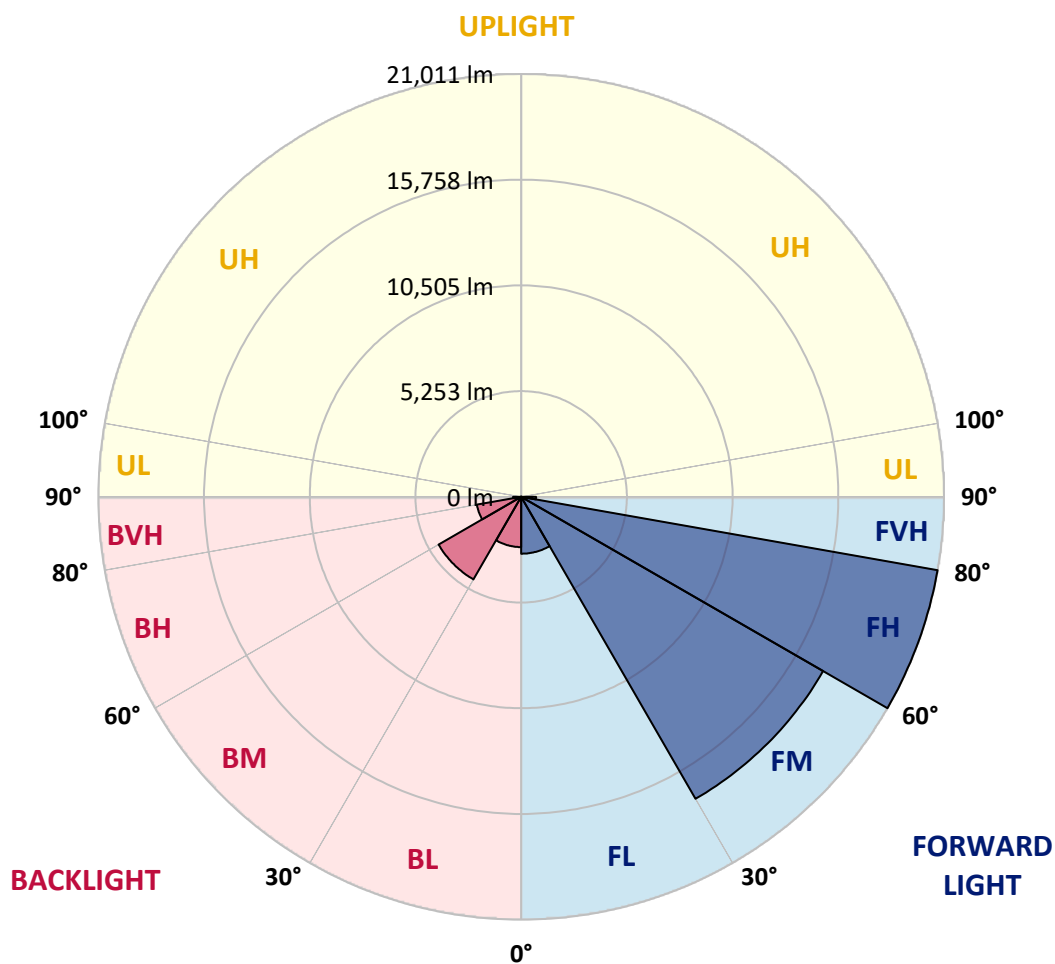
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2828.7	5.5			
FM	(30°-60°)	17324.5	33.5			
FH	(60°-80°)	21010.6	40.6			G5
FVH	(80°-90°)	736.9	1.4			G4/750
BL	(0°-30°)	2498.9	4.8	B3/2500		
BM	(30°-60°)	4738.9	9.2	B3/5000		
BH	(60°-80°)	2234.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	403.1	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°	35°	45°	55°	65°	75°	85°	90°
0°	7814.6	7814.6	7814.6	7814.6	7814.6	7814.6	7814.6	7814.6	7814.6	7814.6	7814.6
2.5°	7506.2	7521.2	7503.8	7526.1	7563.5	7603.3	7630.5	7670.3	7715.2	7777.3	7792.2
5°	7153.2	7175.6	7175.6	7215.4	7287.5	7352.2	7411.8	7476.4	7570.9	7677.8	7720.0
7.5°	6765.4	6777.8	6800.2	6859.9	6964.3	7056.3	7140.7	7245.2	7374.5	7516.2	7590.8
10°	6297.9	6315.3	6350.1	6434.6	6576.5	6703.2	6825.0	6969.2	7133.3	7309.9	7404.3
12.5°	5967.2	5962.3	5977.1	6039.3	6163.7	6317.8	6494.4	6678.4	6879.7	7086.1	7200.4
15°	5855.3	5828.0	5770.7	5755.9	5823.0	5977.1	6181.1	6407.3	6648.4	6897.1	7038.8
17.5°	5924.9	5877.7	5721.1	5606.7	5596.8	5713.6	5929.9	6183.5	6462.0	6765.4	6941.9
20°	6362.6	6250.6	5865.2	5599.2	5507.2	5564.5	5753.4	6022.0	6350.1	6752.9	6979.2
22.5°	7409.3	7245.2	6427.1	5932.4	5621.6	5552.0	5693.7	5979.6	6362.6	6907.1	7195.5
25°	8933.5	8699.7	7391.9	6762.8	6121.4	5750.9	5783.2	6076.7	6539.0	7265.0	7613.1
27.5°	10136.8	9985.2	8652.5	7934.0	7031.4	6288.0	6074.2	6320.3	6899.6	7851.9	8207.4
30°	10852.8	10760.8	10000.1	9261.6	8192.5	7143.3	6631.1	6777.8	7464.0	8665.0	8958.2
32.5°	11683.3	11628.6	11255.7	10577.0	9445.6	8267.1	7513.8	7461.6	8219.8	9642.0	9776.3
35°	12543.6	12526.1	12307.4	11820.1	10790.8	9748.9	8684.8	8331.8	9042.9	10656.5	10571.9
37.5°	13344.2	13314.4	13187.6	12904.1	12198.0	11340.2	9878.2	9224.3	9930.5	11626.2	11250.7
40°	14818.7	14584.9	14149.7	13935.9	13620.1	12680.3	10825.5	10057.2	10850.4	12551.0	11837.4
42.5°	16616.2	16235.8	15425.2	15131.9	15087.2	13737.0	11472.0	10865.3	11777.8	13468.5	12414.2
45°	18030.9	17672.9	16974.3	16603.8	16767.9	14694.3	12120.9	11728.1	12732.5	14430.8	13008.5
47.5°	19540.2	18978.3	18053.4	18165.2	18523.3	15599.3	12782.2	12655.5	13779.3	15507.2	13747.0
50°	19594.9	19164.7	18759.5	19428.3	19985.2	16432.3	13610.2	13627.7	15059.7	16862.4	14729.1
52.5°	18458.6	18366.6	19010.6	20062.3	20865.4	17091.1	14552.6	14632.1	16698.3	18418.8	15808.1
55°	18060.8	17956.3	18699.8	19841.1	20984.8	17635.6	15574.5	15718.7	18679.8	20059.8	16859.9
57.5°	19030.4	18799.2	18849.0	19736.6	20693.8	18232.3	16688.4	16979.2	20833.0	21494.5	17536.2
60°	21740.6	21245.8	20306.0	20283.6	20850.5	19127.5	17976.2	18331.8	23070.7	22180.6	17272.6
62.5°	25542.2	25047.3	23287.1	22140.9	22056.3	20604.3	19557.5	19652.0	24363.6	21250.8	15664.0
65°	29657.2	29214.5	27247.8	25629.2	24848.5	23050.9	21394.9	20241.3	23941.0	18692.3	12849.4
67.5°	34652.1	34177.3	32486.5	30992.3	30241.5	26999.2	22685.4	19676.9	21258.2	14480.4	9236.8
70°	38145.4	37660.6	36994.3	38205.1	40042.5	32695.4	22852.0	17382.0	15877.8	9624.6	5559.4
72.5°	33588.1	33361.8	34577.6	39677.1	47330.0	36151.3	20656.5	12655.5	9221.8	5109.4	3217.3
73°	30773.4	30723.7	32797.3	38645.2	47382.3	35619.3	19694.3	11762.9	7909.1	4520.2	2941.4
75°	13896.1	14296.5	18841.5	29517.8	41166.3	29351.3	13861.4	6748.0	4467.9	3122.8	2220.2
77.5°	3339.2	3478.4	5895.1	14018.0	25997.1	17491.5	6280.6	3336.7	2856.8	2205.4	1621.1
80°	1422.2	1469.4	2270.1	5179.0	12240.4	7043.8	2894.1	2235.2	1976.6	1539.0	1136.3
82.5°	790.7	840.4	1287.9	2349.6	4940.3	2401.8	1765.3	1556.4	1300.4	927.4	738.5
85°	447.5	474.8	753.4	1312.8	2093.5	964.6	1056.6	1034.3	733.4	477.4	363.0
87.5°	211.3	228.8	363.0	609.1	820.5	377.9	537.0	591.7	460.0	290.8	188.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7814.6	7814.6	7814.6	7814.6	7814.6	7814.6	7814.6	7814.6	7814.6	7814.6
2.5°	7809.7	7854.3	7906.5	7934.0	7958.8	7988.6	8018.4	8018.4	8023.5	8025.9
5°	7754.9	7846.9	7929.0	7963.8	7971.2	7971.2	7963.8	7923.9	7889.2	7904.1
7.5°	7640.5	7774.8	7844.4	7832.0	7737.5	7628.1	7536.1	7424.1	7367.1	7357.1
10°	7476.4	7630.5	7643.0	7518.6	7285.0	7051.3	6857.3	6668.4	6578.8	6556.4
12.5°	7294.9	7436.6	7357.1	7101.0	6725.6	6384.9	6138.7	5947.3	5862.8	5840.5
15°	7148.3	7245.2	7043.8	6641.0	6168.7	5808.1	5604.2	5462.5	5402.9	5385.4
17.5°	7071.2	7091.0	6723.0	6178.6	5676.3	5375.4	5248.7	5181.5	5159.1	5146.7
20°	7108.4	6969.2	6417.3	5748.4	5273.5	5062.2	5032.4	5015.0	5010.0	5002.6
22.5°	7294.9	6932.0	6136.3	5340.7	4920.5	4828.5	4853.3	4850.9	4845.8	4840.9
25°	7628.1	6964.3	5862.8	4952.8	4624.6	4604.7	4649.4	4649.4	4629.6	4629.6
27.5°	8068.1	7031.4	5556.9	4584.8	4356.0	4358.6	4393.4	4383.4	4361.1	4346.2
30°	8605.3	7073.7	5199.0	4254.1	4105.0	4095.0	4105.0	4062.7	3995.5	3990.5
32.5°	9154.8	7021.4	4783.7	3960.7	3839.0	3816.5	3809.1	3749.4	3672.3	3650.0
35°	9652.0	6830.1	4361.1	3727.1	3585.4	3535.6	3570.4	3550.5	3480.9	3463.5
37.5°	10015.0	6474.4	3980.7	3520.7	3403.8	3391.4	3413.7	3421.2	3339.2	3321.7
40°	10258.7	5992.1	3654.9	3346.6	3369.0	3321.7	3247.1	3195.0	3170.0	3162.6
42.5°	10455.0	5489.8	3381.5	3264.5	3376.4	3239.7	3078.1	2993.6	3038.3	3058.1
45°	10681.3	5000.0	3152.6	3162.6	3339.2	3145.2	2961.3	2879.2	2896.6	2901.6
47.5°	10992.1	4403.2	2906.6	2998.5	3214.9	3080.6	2889.2	2772.2	2690.2	2653.0
50°	11422.3	3697.3	2650.4	2814.5	3093.0	3033.4	2777.3	2653.0	2501.3	2466.4
52.5°	11720.6	3038.3	2439.1	2660.4	2983.7	2938.8	2687.8	2526.1	2367.0	2337.2
55°	11559.0	2523.7	2255.1	2488.8	2839.4	2821.9	2613.2	2396.8	2272.5	2247.7
57.5°	10750.9	2198.0	2113.4	2327.2	2662.8	2722.5	2513.7	2287.5	2198.0	2180.5
60°	9209.5	1994.1	2023.9	2217.9	2518.7	2623.1	2414.2	2227.8	2168.1	2155.6
62.5°	7145.8	1857.3	1956.8	2138.2	2406.8	2553.5	2359.6	2220.2	2198.0	2183.0
65°	5119.4	1747.9	1884.6	2058.7	2304.9	2488.8	2339.7	2210.4	2215.3	2202.8
67.5°	3478.4	1650.9	1797.7	1969.2	2205.4	2431.7	2312.3	2175.6	2237.7	2222.8
70°	2434.1	1556.4	1695.7	1854.7	2081.1	2352.2	2262.5	2123.4	2118.3	2058.7
72.5°	1899.6	1432.2	1556.4	1695.7	1922.0	2240.2	2163.2	2006.4	1924.4	1862.4
73°	1812.5	1402.4	1521.7	1660.8	1887.1	2212.8	2135.8	1974.2	1882.2	1824.9
75°	1499.2	1273.0	1382.4	1506.6	1738.0	2083.6	2001.5	1827.5	1710.6	1675.8
77.5°	1178.6	1089.0	1193.4	1305.3	1531.6	1894.5	1802.6	1636.0	1571.3	1541.5
80°	872.7	902.6	994.6	1094.0	1327.7	1693.2	1611.1	1444.5	1733.0	1660.8
82.5°	614.1	683.8	768.3	857.8	1113.9	1496.8	1397.3	1225.8	1268.1	1054.3
85°	363.0	447.5	527.0	604.2	803.0	1240.6	1153.7	977.1	800.7	763.2
87.5°	211.3	248.7	271.0	350.6	552.0	934.8	813.0	723.6	415.1	280.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)