

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: P194078

Luminaire Tested: **GAN-AF-10-LED-U-T4FT-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194078
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-10-LED-U-T4FT-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 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: 48365 lumens
Efficiency: N/A
Efficacy: 86.7 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): 558
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



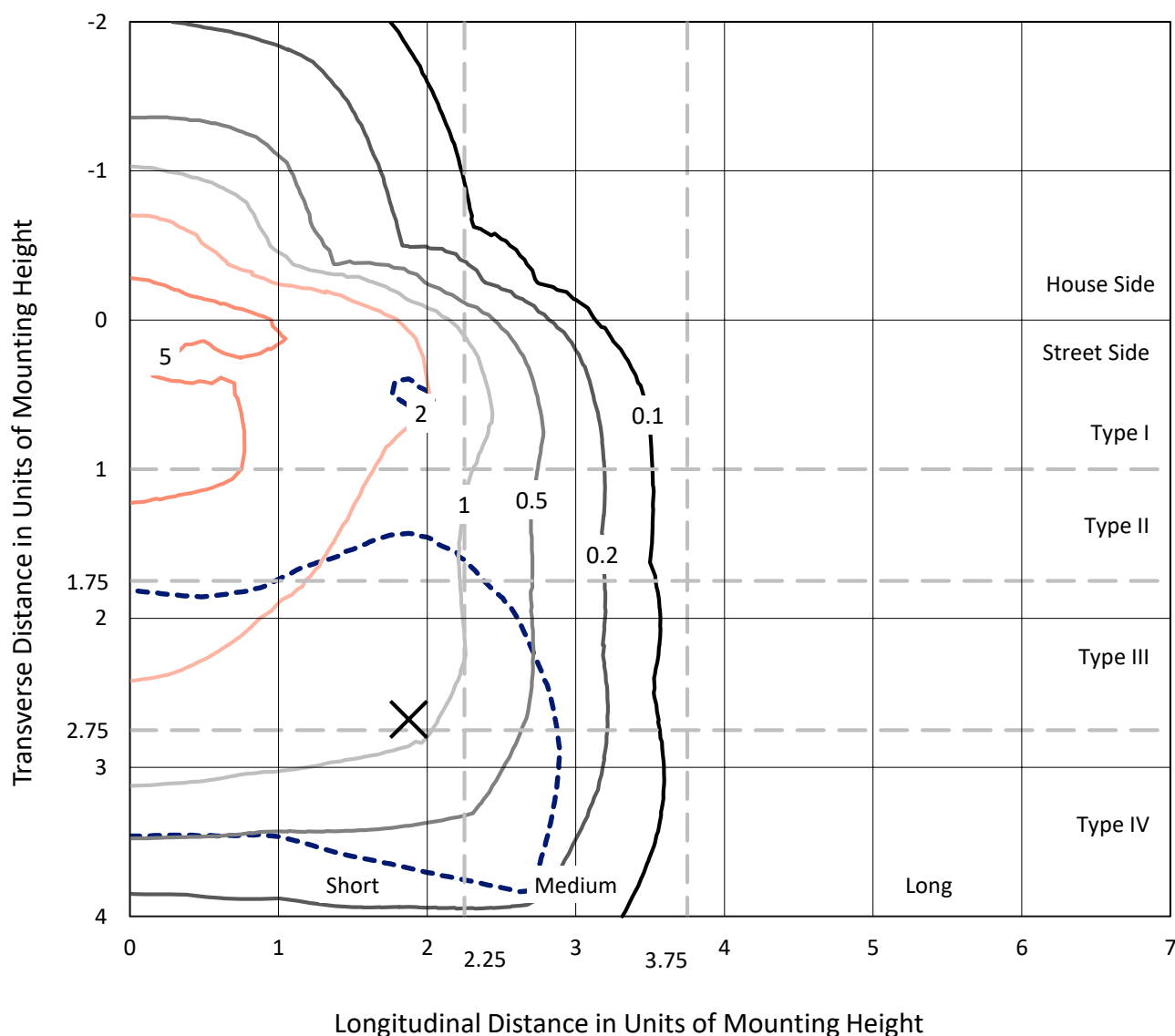
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

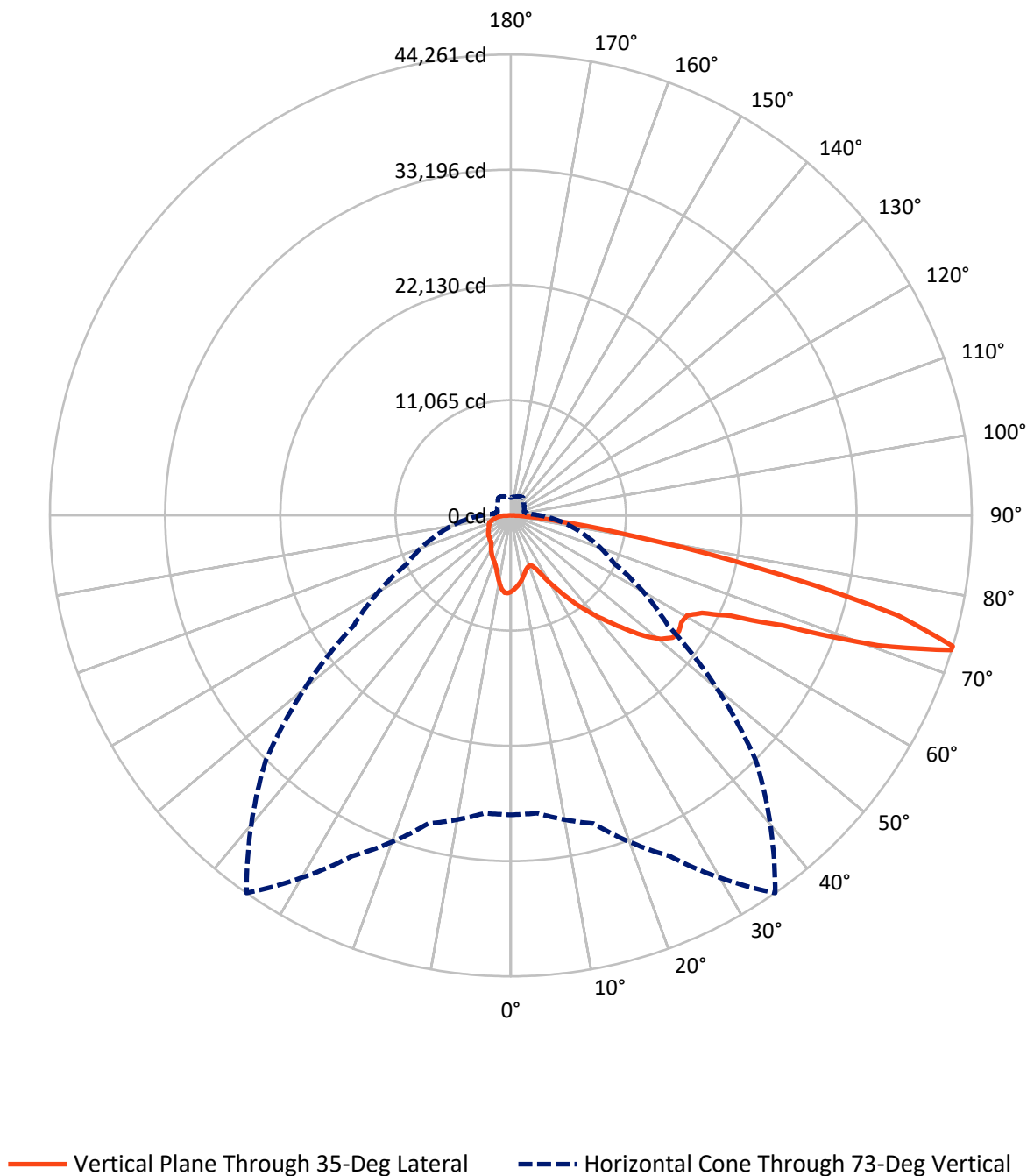


Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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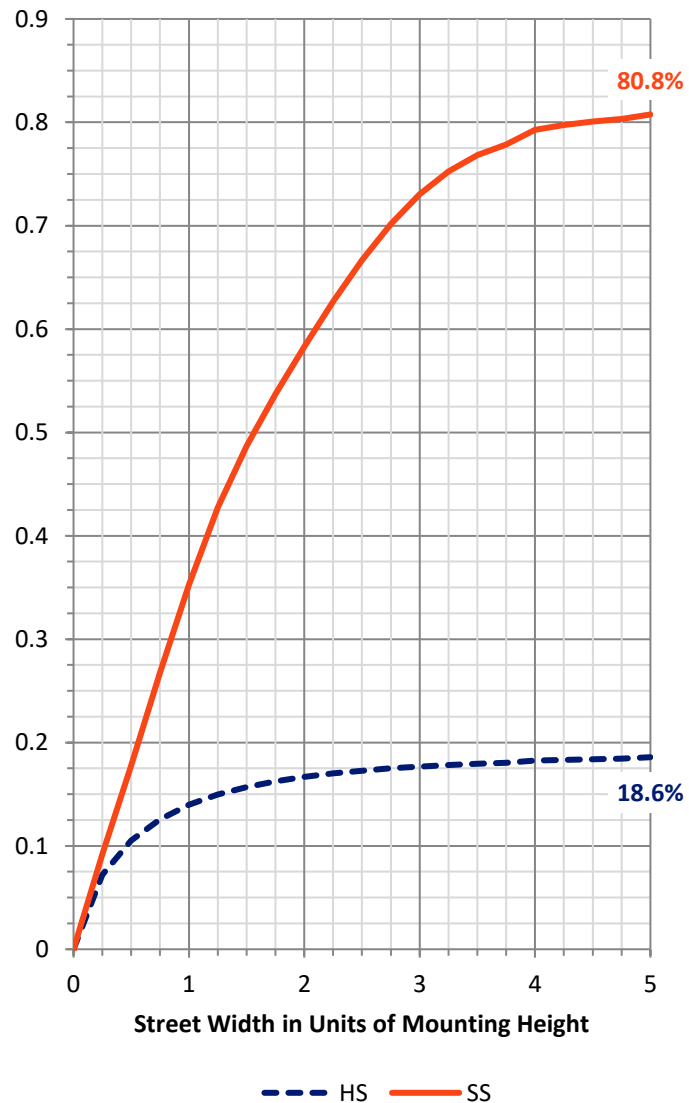
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9224.6	0.0	9224.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	39140.5	0.0	39140.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	48365.0	0.0	48365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.8	1.4
10°-20°	1649.3	3.4
20°-30°	2666.4	5.5
30°-40°	4471.2	9.2
40°-50°	6892.2	14.3
50°-60°	9246.6	19.1
60°-70°	12318.3	25.5
70°-80°	9395.2	19.4
80°-90°	1064.9	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°	48365.0	100.0
0°-180°	48365.0	100.0

Coefficient of Utilization



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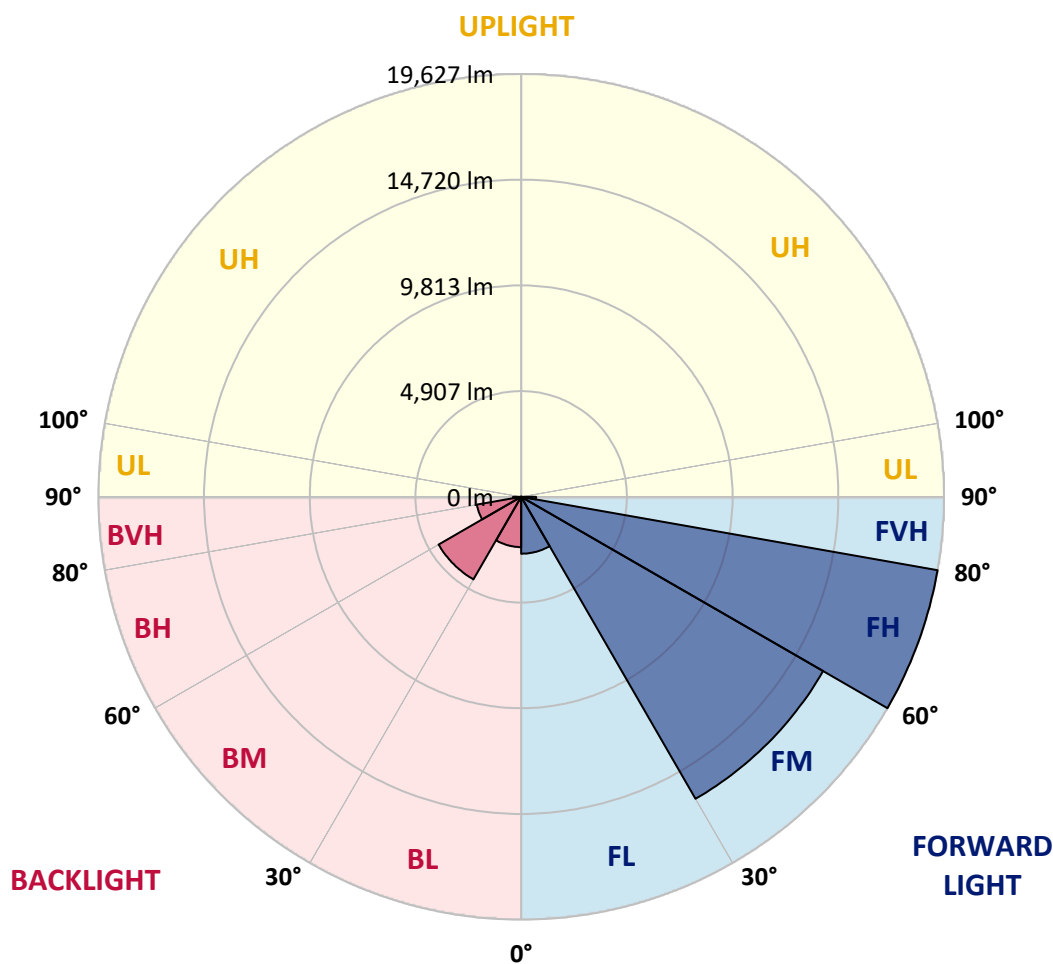
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2642.4	5.5			
FM	(30°-60°)	16183.2	33.5			
FH	(60°-80°)	19626.5	40.6			G5
FVH	(80°-90°)	688.4	1.4			G4/750
BL	(0°-30°)	2334.2	4.8	B3/2500		
BM	(30°-60°)	4426.8	9.2	B3/5000		
BH	(60°-80°)	2087.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	376.6	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°	7299.8	7299.8	7299.8	7299.8	7299.8	7299.8	7299.8	7299.8	7299.8	7299.8	7299.8
2.5°	7011.8	7025.7	7009.5	7030.4	7065.2	7102.4	7127.9	7165.1	7206.9	7264.9	7278.9
5°	6682.0	6702.9	6702.9	6740.0	6807.4	6867.8	6923.5	6983.9	7072.2	7172.0	7211.5
7.5°	6319.7	6331.3	6352.2	6407.9	6505.5	6591.4	6670.4	6767.9	6888.7	7021.1	7090.8
10°	5883.0	5899.3	5931.8	6010.8	6143.2	6261.6	6375.4	6510.1	6663.4	6828.3	6916.6
12.5°	5574.1	5569.5	5583.4	5641.5	5757.6	5901.6	6066.5	6238.4	6426.5	6619.3	6726.1
15°	5469.6	5444.1	5390.6	5376.7	5439.4	5583.4	5773.9	5985.2	6210.5	6442.8	6575.1
17.5°	5534.6	5490.5	5344.2	5237.4	5228.1	5337.2	5539.3	5776.2	6036.3	6319.7	6484.6
20°	5943.4	5838.9	5478.9	5230.4	5144.5	5197.9	5374.4	5625.2	5931.8	6308.1	6519.4
22.5°	6921.2	6767.9	6003.8	5541.6	5251.3	5186.3	5318.6	5585.7	5943.4	6452.0	6721.5
25°	8344.9	8126.6	6904.9	6317.3	5718.1	5372.1	5402.3	5676.3	6108.3	6786.5	7111.7
27.5°	9469.0	9327.4	8082.5	7411.3	6568.2	5873.7	5674.0	5903.9	6445.1	7334.6	7666.7
30°	10137.9	10052.0	9341.3	8651.5	7652.8	6672.7	6194.2	6331.3	6972.3	8094.1	8368.2
32.5°	10913.7	10862.6	10514.2	9880.1	8823.4	7722.5	7018.8	6970.0	7678.4	9006.9	9132.3
35°	11717.3	11701.0	11496.6	11041.4	10079.9	9106.7	8112.7	7782.9	8447.1	9954.5	9875.5
37.5°	12465.1	12437.3	12318.8	12054.0	11394.4	10593.2	9227.5	8616.7	9276.3	10860.3	10509.5
40°	13842.4	13624.1	13217.6	13017.9	12722.9	11845.0	10112.4	9394.7	10135.6	11724.2	11057.7
42.5°	15521.6	15166.3	14409.1	14135.1	14093.2	12832.1	10716.3	10149.6	11001.9	12581.3	11596.5
45°	16843.1	16508.7	15856.1	15510.0	15663.3	13726.3	11322.4	10955.5	11893.8	13480.1	12151.6
47.5°	18252.9	17728.0	16864.1	16968.6	17303.0	14571.7	11940.2	11821.8	12871.6	14485.8	12841.4
50°	18304.0	17902.2	17523.7	18148.4	18668.7	15349.7	12713.6	12729.9	14067.7	15751.5	13758.8
52.5°	17242.6	17156.7	17758.2	18740.7	19490.9	15965.2	13593.9	13668.2	15598.3	17205.5	14766.8
55°	16871.0	16773.5	17467.9	18534.0	19602.3	16473.9	14548.5	14683.2	17449.3	18738.3	15749.2
57.5°	17776.8	17560.8	17607.3	18436.4	19330.6	17031.3	15589.0	15860.7	19460.7	20078.5	16381.0
60°	20308.4	19846.2	18968.3	18947.4	19476.9	17867.4	16792.1	17124.2	21551.0	20719.5	16134.8
62.5°	23859.6	23397.4	21753.0	20682.3	20603.4	19247.0	18269.2	18357.5	22758.7	19850.9	14632.1
65°	27703.4	27290.0	25452.8	23940.9	23211.6	21532.4	19985.6	18907.9	22363.9	17460.9	12002.9
67.5°	32369.4	31925.8	30346.5	28950.6	28249.2	25220.6	21191.0	18380.7	19857.8	13526.5	8628.3
70°	35632.6	35179.7	34557.3	35688.3	37404.7	30541.6	21346.6	16237.0	14831.8	8990.6	5193.2
72.5°	31375.4	31164.0	32299.7	37063.3	44212.1	33769.9	19295.8	11821.8	8614.3	4772.8	3005.4
73°	28746.2	28699.8	30636.8	36099.4	44260.9	33272.9	18396.9	10988.0	7388.0	4222.4	2747.6
75°	12980.7	13354.7	17600.3	27573.3	38454.5	27417.7	12948.2	6303.4	4173.6	2917.1	2074.0
77.5°	3119.2	3249.3	5506.8	13094.5	24284.6	16339.2	5866.8	3116.9	2668.6	2060.1	1514.3
80°	1328.5	1372.6	2120.5	4837.9	11433.9	6579.8	2703.5	2088.0	1846.4	1437.7	1061.4
82.5°	738.6	785.0	1203.1	2194.8	4614.9	2243.6	1649.0	1453.9	1214.7	866.3	689.8
85°	418.1	443.6	703.7	1226.3	1955.6	901.2	987.1	966.2	685.2	445.9	339.1
87.5°	197.4	213.7	339.1	569.0	766.4	353.0	501.7	552.8	429.7	271.7	176.5
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°	7299.8	7299.8	7299.8	7299.8	7299.8	7299.8	7299.8	7299.8	7299.8	7299.8
2.5°	7295.1	7336.9	7385.7	7411.3	7434.5	7462.4	7490.2	7490.2	7494.9	7497.2
5°	7244.0	7330.0	7406.6	7439.1	7446.1	7446.1	7439.1	7402.0	7369.5	7383.4
7.5°	7137.2	7262.6	7327.7	7316.0	7227.8	7125.6	7039.7	6935.1	6881.7	6872.4
10°	6983.9	7127.9	7139.5	7023.4	6805.1	6586.8	6405.6	6229.1	6145.5	6124.6
12.5°	6814.4	6946.8	6872.4	6633.2	6282.5	5964.3	5734.4	5555.5	5476.6	5455.7
15°	6677.3	6767.9	6579.8	6203.5	5762.3	5425.5	5235.0	5102.6	5046.9	5030.6
17.5°	6605.3	6623.9	6280.2	5771.5	5302.4	5021.4	4902.9	4840.2	4819.3	4807.7
20°	6640.2	6510.1	5994.5	5369.7	4926.1	4728.7	4700.8	4684.6	4679.9	4673.0
22.5°	6814.4	6475.3	5732.1	4988.8	4596.3	4510.4	4533.6	4531.3	4526.7	4522.0
25°	7125.6	6505.5	5476.6	4626.5	4319.9	4301.4	4343.2	4343.2	4324.6	4324.6
27.5°	7536.7	6568.2	5190.9	4282.8	4069.1	4071.4	4103.9	4094.7	4073.8	4059.8
30°	8038.4	6607.7	4856.5	3973.9	3834.5	3825.2	3834.5	3795.0	3732.3	3727.7
32.5°	8551.6	6558.9	4468.6	3699.8	3586.0	3565.1	3558.1	3502.4	3430.4	3409.5
35°	9016.1	6380.1	4073.8	3481.5	3349.1	3302.7	3335.2	3316.6	3251.6	3235.3
37.5°	9355.2	6047.9	3718.4	3288.7	3179.6	3168.0	3188.9	3195.8	3119.2	3102.9
40°	9582.8	5597.4	3414.2	3126.2	3147.1	3102.9	3033.3	2984.5	2961.3	2954.3
42.5°	9766.3	5128.2	3158.7	3049.5	3154.0	3026.3	2875.3	2796.4	2838.2	2856.7
45°	9977.7	4670.7	2945.0	2954.3	3119.2	2938.0	2766.2	2689.5	2705.8	2710.4
47.5°	10268.0	4113.2	2715.1	2801.0	3003.1	2877.6	2698.8	2589.6	2513.0	2478.2
50°	10669.8	3453.6	2475.8	2629.1	2889.3	2833.5	2594.3	2478.2	2336.5	2304.0
52.5°	10948.5	2838.2	2278.4	2485.1	2787.1	2745.3	2510.7	2359.7	2211.1	2183.2
55°	10797.5	2357.4	2106.6	2324.9	2652.4	2636.1	2441.0	2238.9	2122.8	2099.6
57.5°	10042.7	2053.1	1974.2	2173.9	2487.5	2543.2	2348.1	2136.7	2053.1	2036.9
60°	8602.7	1862.7	1890.6	2071.7	2352.7	2450.3	2255.2	2081.0	2025.3	2013.7
62.5°	6675.0	1734.9	1827.8	1997.4	2248.2	2385.3	2204.1	2074.0	2053.1	2039.2
65°	4782.1	1632.8	1760.5	1923.1	2153.0	2324.9	2185.5	2064.7	2069.4	2057.8
67.5°	3249.3	1542.2	1679.2	1839.5	2060.1	2271.5	2160.0	2032.2	2090.3	2076.4
70°	2273.8	1453.9	1584.0	1732.6	1944.0	2197.1	2113.5	1983.5	1978.8	1923.1
72.5°	1774.4	1337.8	1453.9	1584.0	1795.3	2092.6	2020.6	1874.3	1797.7	1739.6
73°	1693.1	1309.9	1421.4	1551.5	1762.8	2067.1	1995.1	1844.1	1758.2	1704.8
75°	1400.5	1189.1	1291.3	1407.5	1623.5	1946.3	1869.7	1707.1	1597.9	1565.4
77.5°	1100.9	1017.3	1114.8	1219.3	1430.7	1769.8	1683.9	1528.2	1467.9	1440.0
80°	815.2	843.1	929.0	1021.9	1240.2	1581.7	1505.0	1349.4	1618.8	1551.5
82.5°	573.7	638.7	717.7	801.3	1040.5	1398.2	1305.3	1145.0	1184.5	984.8
85°	339.1	418.1	492.4	564.4	750.2	1159.0	1077.7	912.8	747.9	713.0
87.5°	197.4	232.3	253.2	327.5	515.6	873.3	759.5	675.9	387.9	262.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)