

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: P193327

Luminaire Tested: **GAN-AF-09-LED-U-T4W-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193327
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56064.2 lumens
Efficiency: N/A
Efficacy: 97.5 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): 575
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



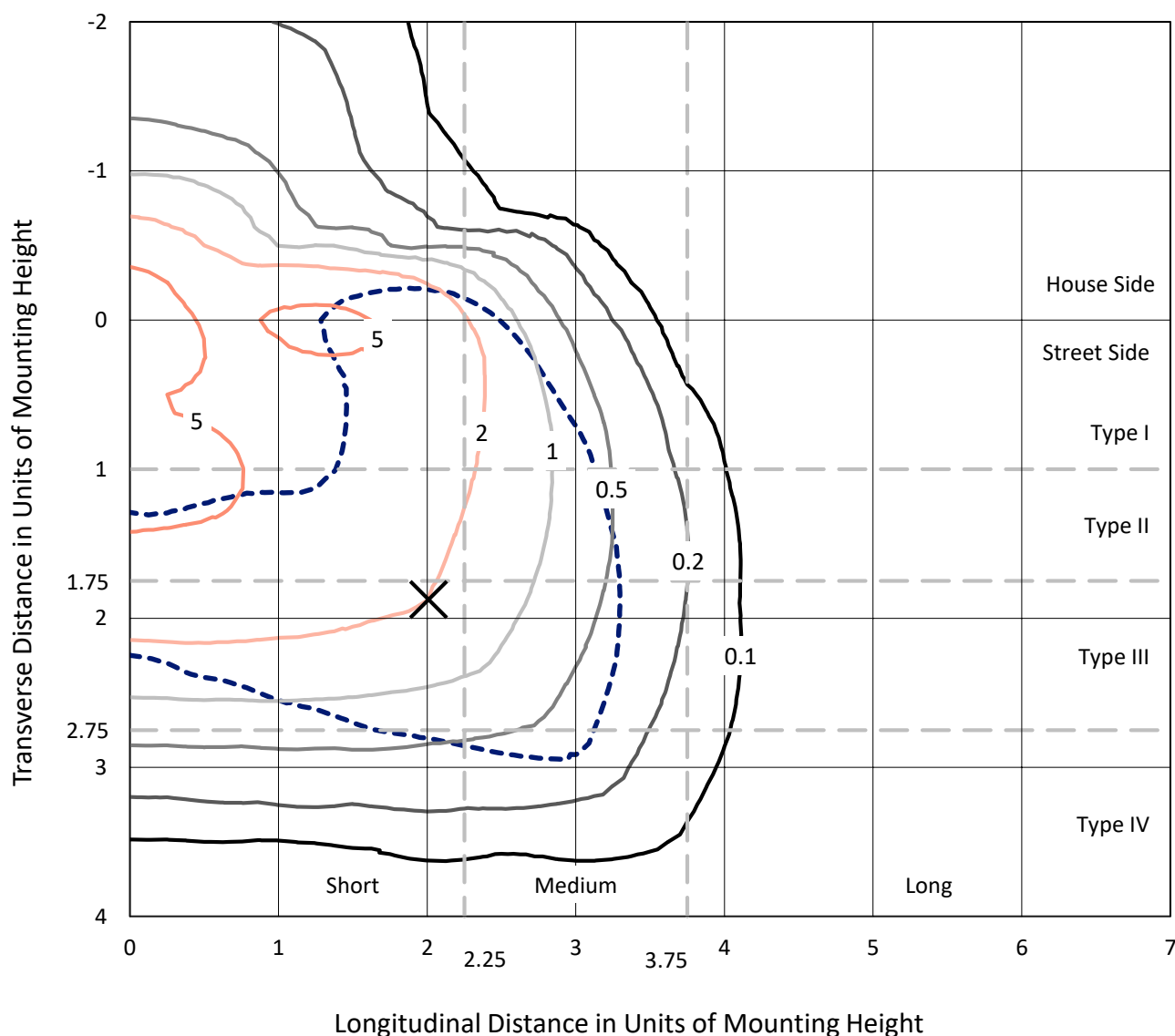
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

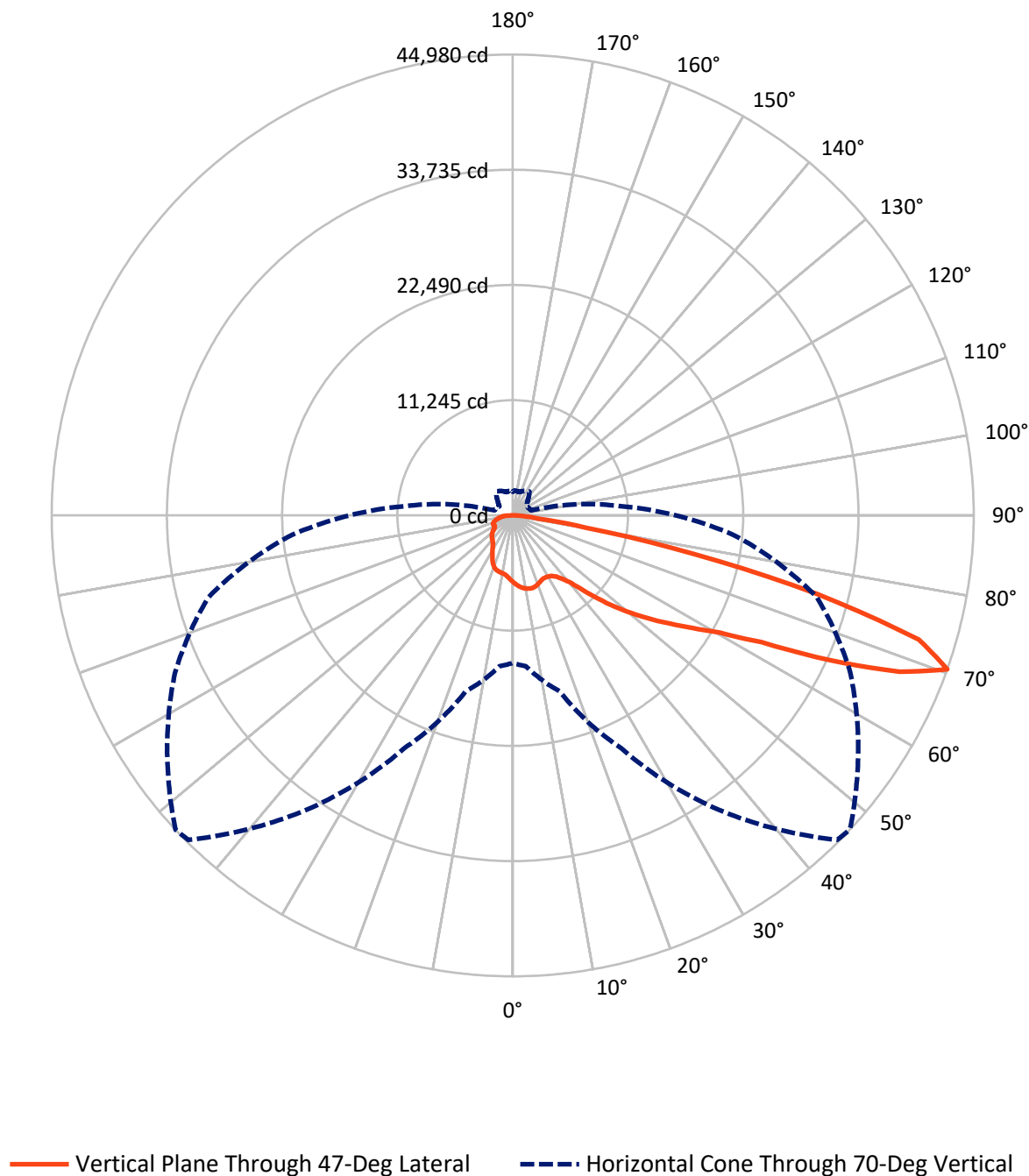


Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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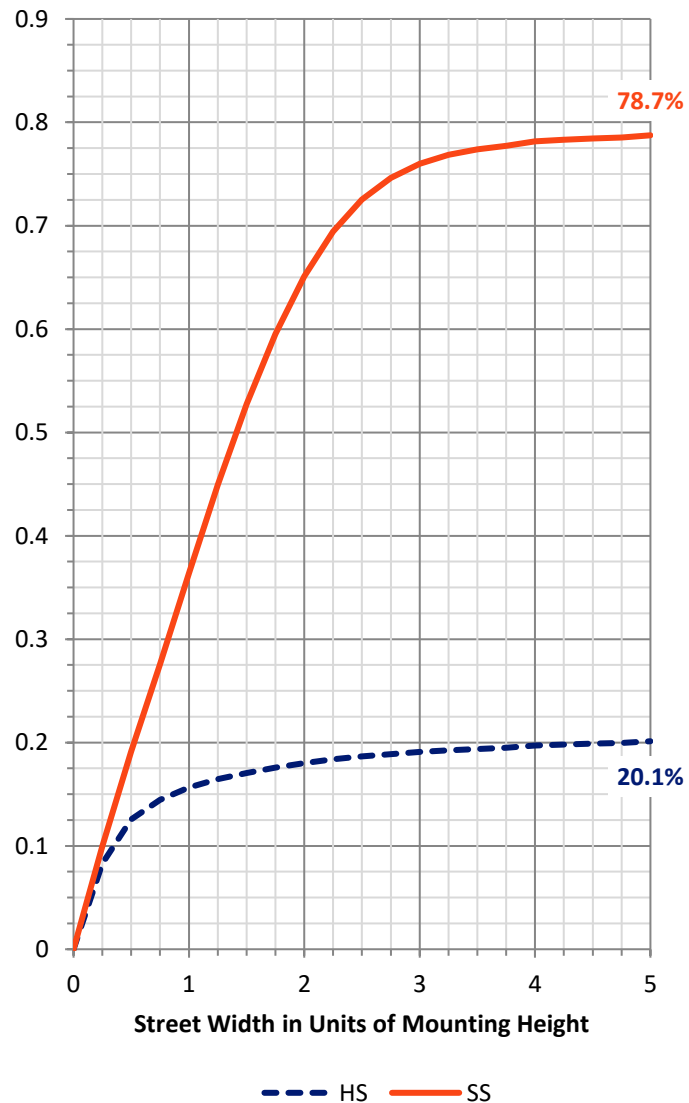
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11696.1	0.0	11696.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	44368.1	0.0	44368.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	56064.2	0.0	56064.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.3	1.1
10°-20°	1828.6	3.3
20°-30°	2700.4	4.8
30°-40°	3925.0	7.0
40°-50°	7063.5	12.6
50°-60°	12236.8	21.8
60°-70°	17465.5	31.2
70°-80°	8965.8	16.0
80°-90°	1255.2	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°	56064.2	100.0
0°-180°	56064.2	100.0

Coefficient of Utilization



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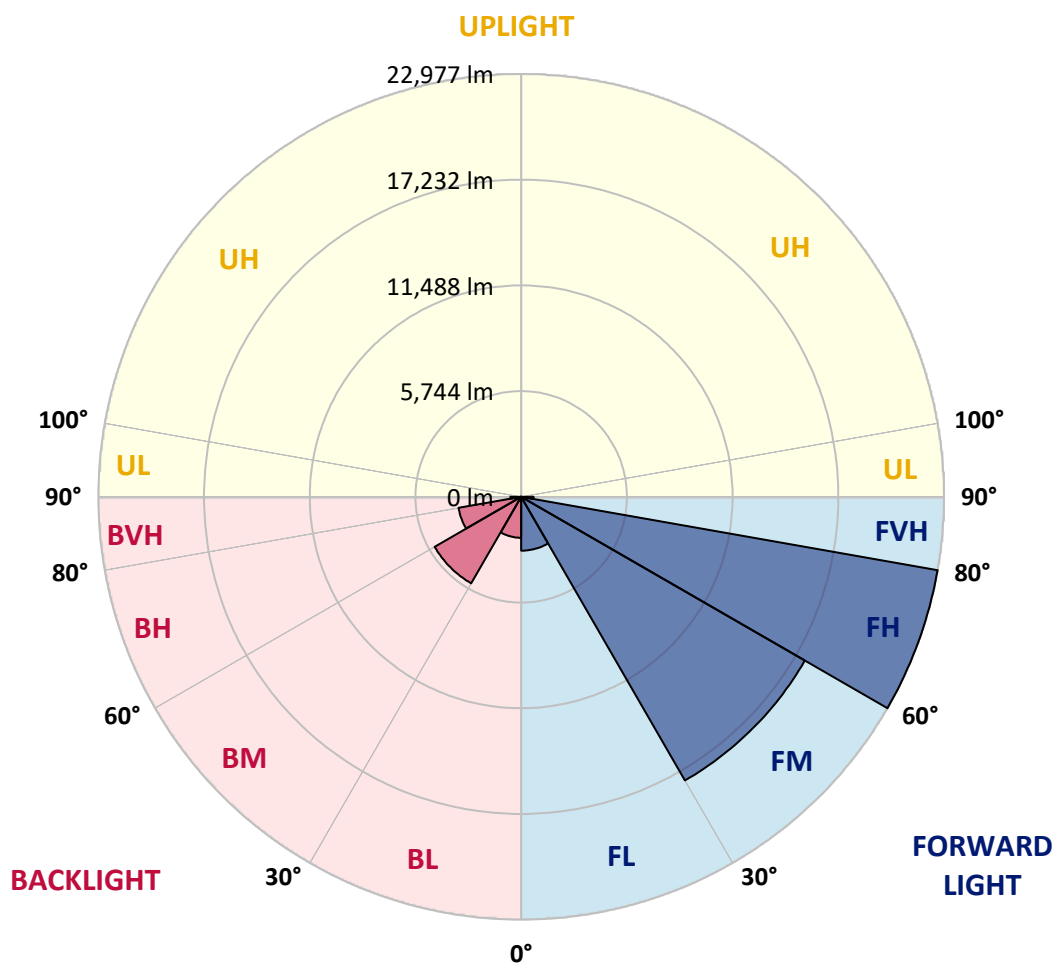
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2925.3	5.2			
FM	(30°-60°)	17796.3	31.7			
FH	(60°-80°)	22976.7	41.0			G5
FVH	(80°-90°)	669.8	1.2			G4/750
BL	(0°-30°)	2227.0	4.0	B3/2500		
BM	(30°-60°)	5429.0	9.7	B4/8500		
BH	(60°-80°)	3454.7	6.2	B4/5000		G4/5000
BVH	(80°-90°)	585.4	1.0			G4/750
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°	6505.2	6505.2	6505.2	6505.2	6505.2	6505.2	6505.2	6505.2	6505.2	6505.2	6505.2
2.5°	6887.0	6873.4	6867.9	6857.0	6843.5	6775.1	6761.6	6712.5	6644.3	6573.4	6499.8
5°	7339.8	7337.1	7307.0	7252.5	7165.2	7015.2	6979.8	6859.8	6698.8	6543.4	6388.0
7.5°	7738.1	7713.4	7656.3	7547.1	7394.3	7189.8	7140.7	6974.3	6753.5	6540.7	6330.6
10°	8029.9	8016.3	7890.8	7740.8	7541.6	7315.2	7258.0	7072.6	6829.8	6559.7	6297.9
12.5°	8196.3	8169.0	8024.4	7844.4	7607.0	7386.2	7328.9	7140.7	6867.9	6559.7	6251.5
15°	8185.3	8166.2	8021.7	7825.3	7585.4	7391.6	7339.8	7151.7	6859.8	6532.5	6191.5
17.5°	7967.1	7975.4	7852.6	7659.0	7462.5	7315.2	7268.9	7094.3	6805.2	6477.9	6120.6
20°	7585.4	7623.4	7541.6	7369.9	7260.8	7159.8	7129.8	6982.5	6720.6	6398.8	6044.2
22.5°	7203.5	7238.9	7206.2	7061.7	7045.2	6985.3	6968.9	6862.5	6647.0	6349.7	5997.9
25°	6922.5	6955.2	6949.8	6824.4	6873.4	6870.7	6857.0	6805.2	6630.6	6349.7	6006.1
27.5°	6846.1	6857.0	6846.1	6731.6	6799.7	6854.3	6843.5	6835.3	6679.8	6428.9	6109.7
30°	7108.0	7091.6	7007.1	6775.1	6838.0	6914.4	6903.4	6908.9	6827.1	6636.1	6341.5
32.5°	8152.6	8078.9	7811.7	7159.8	6993.4	7034.3	7039.8	7129.8	7143.5	6955.2	6701.5
35°	9715.6	9633.7	9287.2	8190.8	7476.2	7334.3	7334.3	7470.7	7552.5	7413.5	7260.8
37.5°	11371.1	11281.1	11095.6	9620.1	8490.9	7855.3	7841.6	7937.1	8054.5	8087.2	8125.4
40°	13253.1	13157.6	13209.5	11223.8	9906.4	8758.1	8564.5	8496.3	8812.8	9022.7	9328.2
42.5°	15312.4	15268.8	15287.9	13010.4	11518.4	10108.2	9832.8	9481.0	9862.9	10236.5	10877.5
45°	17219.0	17257.2	17238.1	14922.4	13313.1	11755.8	11463.9	10782.0	11155.7	11796.6	12841.2
47.5°	18888.2	18730.1	18975.5	17011.6	15323.4	13599.5	13239.5	12325.7	12704.8	13495.9	15263.3
50°	20914.9	20893.0	20533.0	19799.2	17753.5	15451.6	14979.7	13921.4	14510.5	15609.8	18315.4
52.5°	23045.1	22649.6	22319.5	21967.6	20331.1	17350.0	16771.7	15511.5	16632.5	18015.4	22035.9
55°	23481.5	23304.1	23713.3	24305.2	22815.9	19322.0	18648.3	17505.4	19021.9	20764.8	26326.2
57.5°	24414.2	24411.5	25257.0	26312.6	25374.4	21413.9	20734.7	19913.8	21708.5	23915.1	30881.2
60°	25044.3	25221.6	26792.7	28841.0	27886.5	23830.5	23205.9	22693.1	24763.4	27436.4	35125.3
62.5°	25374.4	25614.4	27758.2	29866.6	31437.7	27853.7	27229.0	26489.9	28805.5	31298.5	37607.4
65°	24002.4	24474.3	27608.1	30753.1	34547.1	34375.2	34094.4	32796.1	33859.8	34350.7	36710.0
67.5°	20205.7	20688.5	24337.8	29926.6	36767.3	40664.9	40725.0	38507.5	36969.2	34612.6	30864.8
70°	14396.0	14775.1	17794.5	25090.8	35076.3	44775.3	44980.0	41139.5	36350.0	30695.8	21564.0
72.5°	6835.3	7067.1	9925.5	16329.8	27834.6	41025.0	41420.5	37779.2	30908.6	22725.9	11764.0
75°	2512.1	2583.0	3355.0	6947.0	16144.3	30253.9	30720.3	27081.8	20489.3	11313.9	4481.4
77.5°	1505.6	1551.9	1882.0	2932.1	6349.7	17292.7	17982.7	14728.7	8954.6	4211.3	2203.9
80°	1052.8	1085.6	1350.1	1824.7	3000.3	6589.8	7203.5	6011.6	3567.7	2664.9	1603.8
82.5°	712.0	728.2	949.1	1232.9	1993.9	2353.9	2539.3	2673.0	2405.7	1982.9	1017.4
85°	466.4	482.8	643.6	812.8	1268.3	1216.5	1243.8	1573.8	1756.6	1347.3	564.7
87.5°	267.2	278.2	387.4	433.6	621.9	515.4	520.9	829.2	1123.7	908.3	343.6
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°	6505.2	6505.2	6505.2	6505.2	6505.2	6505.2	6505.2	6505.2	6505.2	6505.2	6505.2
2.5°	6480.6	6445.2	6366.1	6317.1	6270.6	6259.7	6240.7	6237.9	6235.2	6235.2	6227.0
5°	6336.1	6276.1	6153.4	6085.2	6027.9	6022.4	6019.6	6033.3	6038.8	6044.2	6036.0
7.5°	6243.4	6161.5	6008.8	5910.6	5842.4	5826.0	5853.3	5916.1	5957.0	5973.3	5965.1
10°	6186.0	6085.2	5907.8	5801.4	5744.2	5736.0	5771.5	5845.2	5929.7	5962.4	5959.6
12.5°	6120.6	6006.1	5817.8	5706.1	5673.3	5689.6	5736.0	5804.2	5891.5	5943.2	5946.0
15°	6055.1	5921.6	5727.8	5629.7	5616.0	5637.9	5681.5	5733.3	5801.4	5853.3	5858.8
17.5°	5976.1	5836.9	5643.2	5542.4	5531.5	5542.4	5545.1	5572.3	5616.0	5665.1	5678.8
20°	5891.5	5749.7	5547.8	5446.9	5397.9	5354.1	5305.1	5310.5	5324.2	5373.3	5384.2
22.5°	5831.5	5689.6	5474.2	5335.1	5204.1	5073.2	4975.0	4961.4	4966.8	5007.8	5021.4
25°	5836.9	5687.0	5455.1	5215.1	4928.6	4718.7	4587.7	4566.0	4563.2	4593.2	4612.3
27.5°	5943.2	5793.3	5526.0	5092.3	4628.7	4317.7	4178.6	4162.2	4140.4	4148.6	4170.4
30°	6180.6	6041.5	5697.9	4966.8	4304.0	3924.9	3780.4	3764.0	3734.1	3720.4	3736.7
32.5°	6567.9	6453.4	5948.7	4846.8	3979.4	3589.5	3442.2	3406.7	3387.6	3371.2	3384.9
35°	7211.6	7162.5	6284.3	4715.9	3693.1	3330.3	3196.7	3142.1	3114.9	3144.8	3166.7
37.5°	8220.7	8248.1	6723.4	4511.4	3472.2	3158.4	3046.7	2984.0	2943.0	2967.6	2992.1
40°	9650.1	9669.1	7208.9	4222.3	3281.3	3057.6	2937.6	2880.3	2823.0	2779.3	2776.6
42.5°	11526.7	11332.9	7686.2	3908.5	3060.4	2994.8	2861.2	2790.3	2703.0	2583.0	2558.5
45°	13752.3	13073.1	8049.0	3548.5	2812.2	2918.5	2776.6	2678.5	2542.0	2411.2	2397.4
47.5°	16316.1	14941.5	8226.2	3174.8	2580.2	2806.7	2673.0	2517.6	2345.7	2280.2	2272.0
50°	19447.4	17158.9	8310.8	2812.2	2378.5	2659.4	2523.1	2340.3	2195.7	2182.0	2173.8
52.5°	23012.3	19826.5	8338.1	2514.8	2212.1	2468.3	2400.2	2223.0	2108.3	2119.3	2119.3
55°	26743.6	22581.3	7967.1	2299.4	2059.3	2272.0	2318.4	2176.6	2081.2	2124.8	2141.2
57.5°	30169.3	25022.4	6799.7	2133.0	1914.8	2122.1	2288.4	2220.2	2154.8	2332.0	2342.9
60°	32798.7	26465.4	5078.7	1982.9	1808.4	2070.3	2367.5	2386.5	2402.9	2825.8	2883.1
62.5°	33349.6	25985.3	3491.3	1865.6	1759.3	2113.8	2512.1	2514.8	2495.7	2790.3	2825.8
65°	30821.3	22949.6	2539.3	1800.1	1718.3	2193.0	2634.8	2577.5	2452.1	2675.8	2610.3
67.5°	24477.1	17290.0	2113.8	1751.1	1658.3	2187.5	2765.7	2634.8	2427.5	2621.1	2514.8
70°	15887.9	10454.7	1882.0	1710.1	1587.4	2083.8	2842.1	2629.4	2356.6	2438.4	2312.9
72.5°	7751.7	4674.9	1726.6	1650.2	1513.8	1939.3	2839.3	2580.2	2283.0	2277.5	2209.3
75°	3033.0	2141.2	1584.7	1560.1	1388.3	1775.7	2762.9	2509.3	2195.7	2108.3	2083.8
77.5°	1775.7	1527.5	1404.6	1426.5	1238.4	1612.0	2651.1	2386.5	2075.7	1972.0	1944.7
80°	1292.9	1142.9	1197.4	1232.9	1058.2	1448.3	2501.2	2236.5	1942.0	1993.9	1955.6
82.5°	829.2	736.4	971.0	1006.5	880.9	1281.9	2337.5	2078.4	1753.8	1592.9	1554.6
85°	422.8	466.4	722.8	766.5	679.1	1052.8	2138.4	1868.4	1541.1	1325.6	1347.3
87.5°	237.3	319.1	461.0	515.4	480.0	810.0	1734.7	1541.1	1257.3	1022.7	900.1
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)