

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: P194062

Luminaire Tested: **GAN-AF-04-LED-U-T4FT-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194062
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-04-LED-U-T4FT-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA 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: 15925 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 171
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



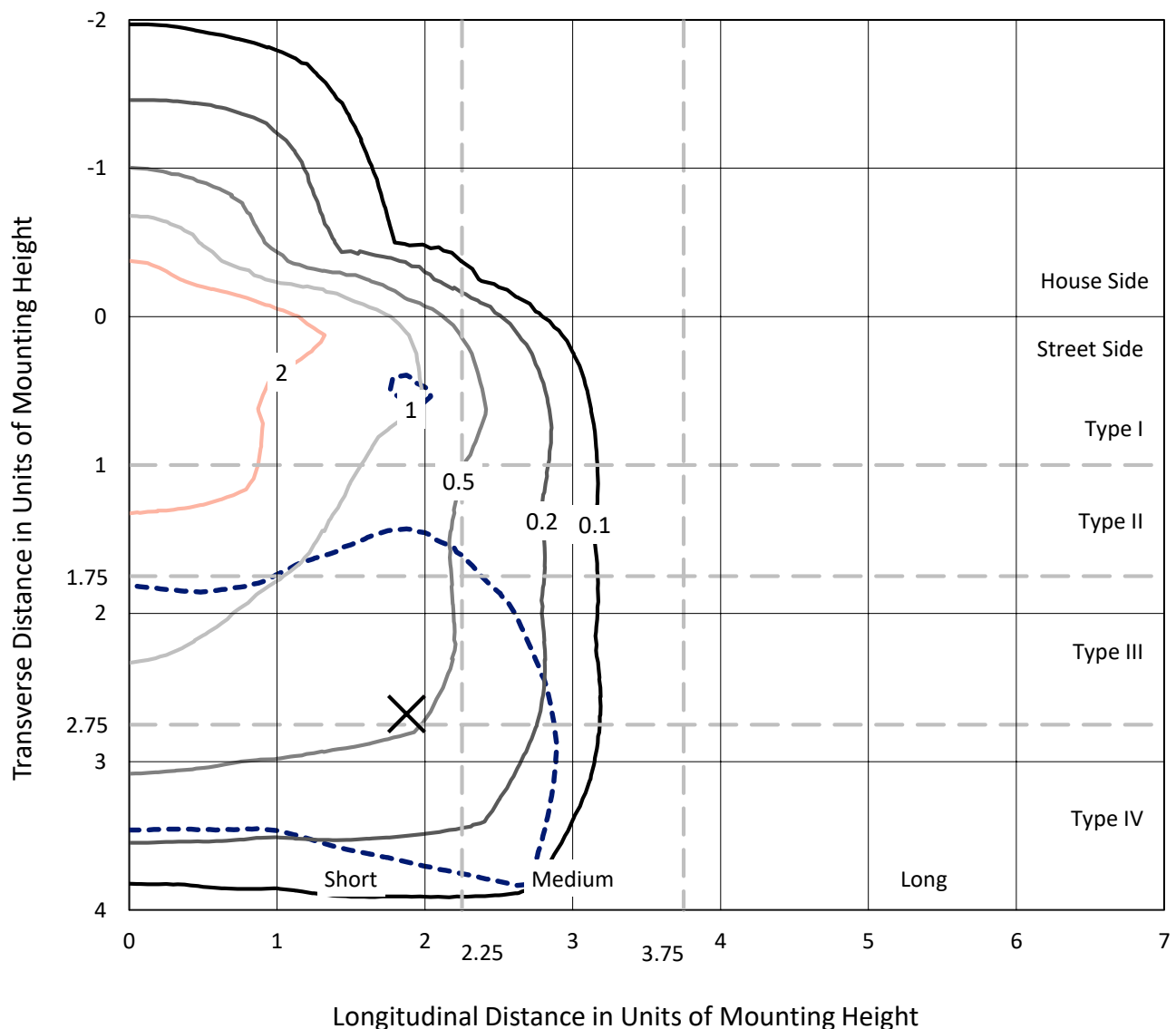
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



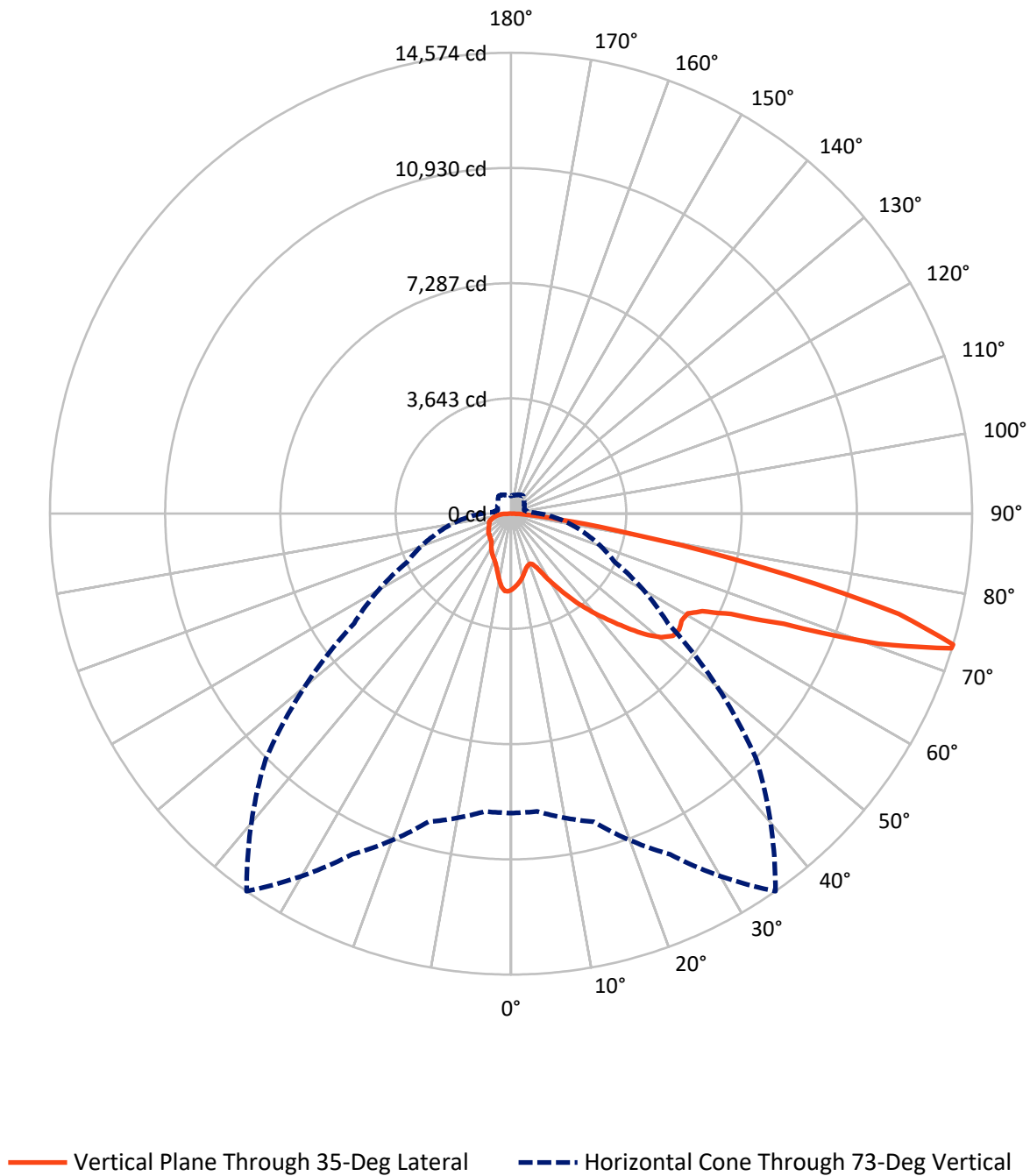
Based on 25 foot mounting height. Maximum calculated value = 3.8 fc

Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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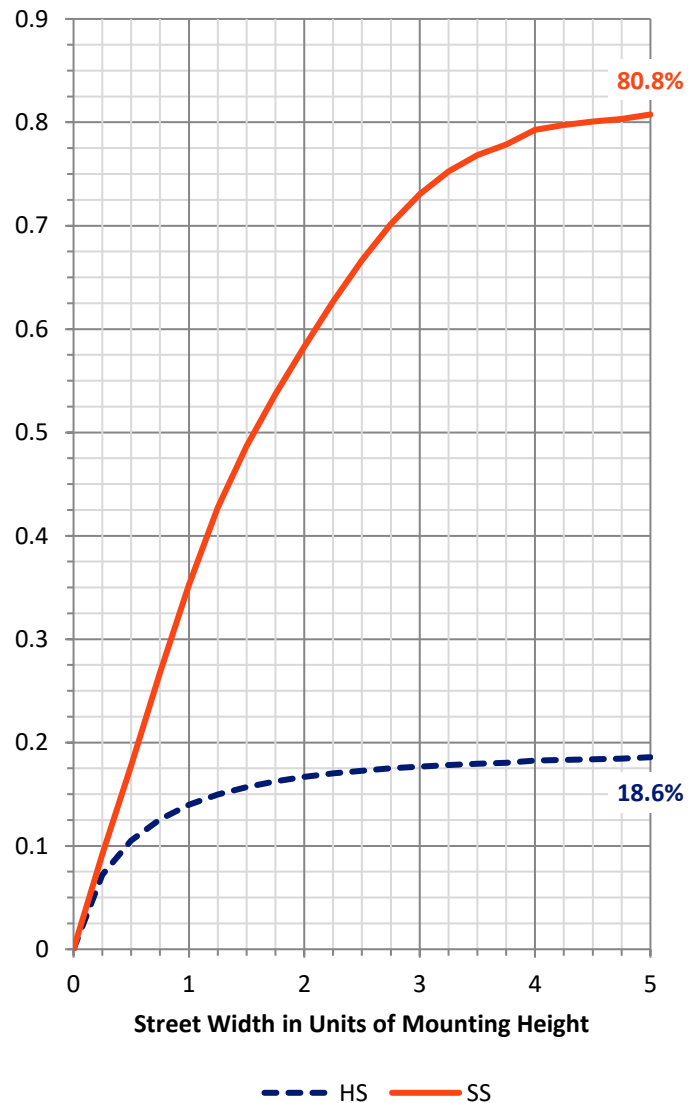
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3037.3	0.0	3037.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	12887.7	0.0	12887.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	15925.0	0.0	15925.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.6	1.4
10°-20°	543.1	3.4
20°-30°	878.0	5.5
30°-40°	1472.2	9.2
40°-50°	2269.4	14.3
50°-60°	3044.6	19.1
60°-70°	4056.0	25.5
70°-80°	3093.5	19.4
80°-90°	350.6	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°	15925.0	100.0
0°-180°	15925.0	100.0

Coefficient of Utilization



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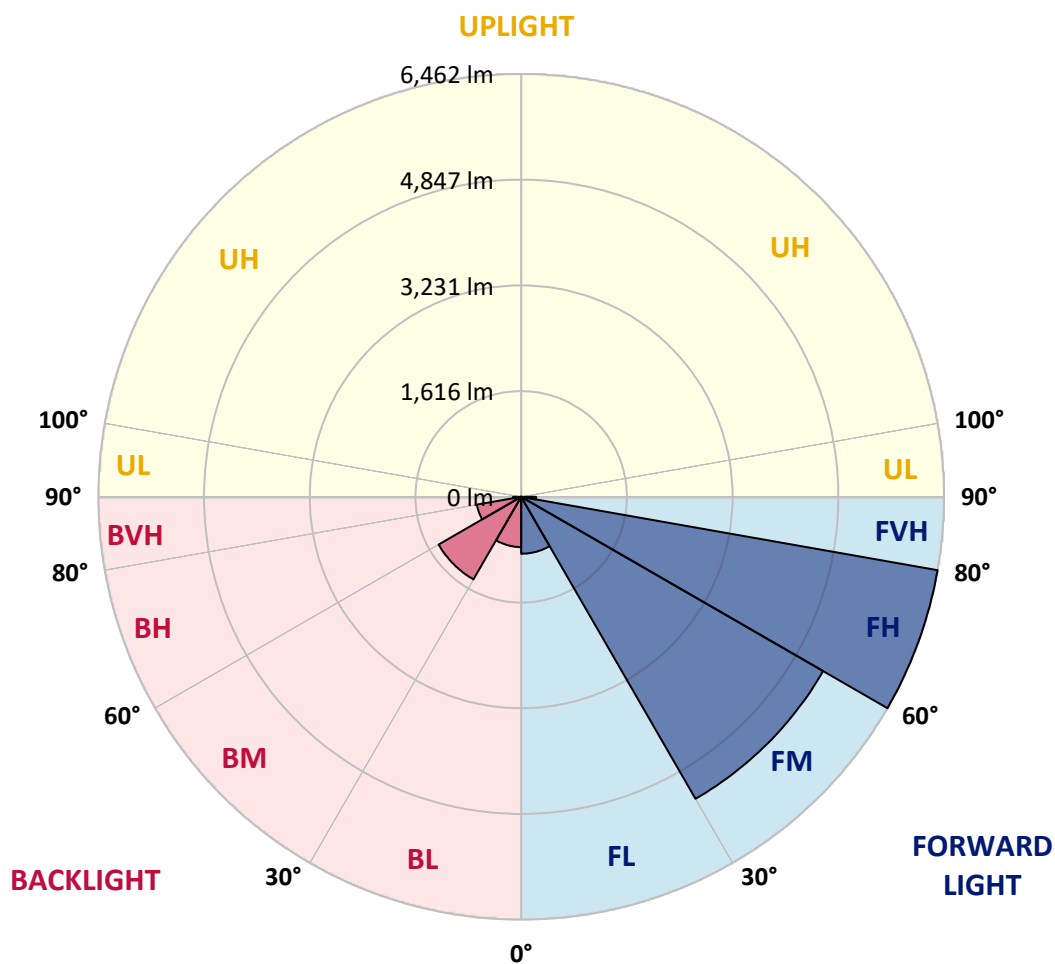
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	870.0	5.5			
FM	(30°-60°)	5328.6	33.5			
FH	(60°-80°)	6462.4	40.6			G3/7500
FVH	(80°-90°)	226.7	1.4			G3/500
BL	(0°-30°)	768.6	4.8	B2/1000		
BM	(30°-60°)	1457.6	9.2	B2/2500		
BH	(60°-80°)	687.2	4.3	B2/1000		G2/1000
BVH	(80°-90°)	124.0	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6
2.5°	2308.7	2313.3	2308.0	2314.9	2326.3	2338.6	2347.0	2359.2	2373.0	2392.1	2396.7
5°	2200.2	2207.0	2207.0	2219.3	2241.5	2261.3	2279.7	2299.6	2328.6	2361.5	2374.5
7.5°	2080.9	2084.7	2091.6	2109.9	2142.0	2170.3	2196.3	2228.5	2268.2	2311.8	2334.8
10°	1937.1	1942.4	1953.1	1979.1	2022.7	2061.7	2099.2	2143.6	2194.0	2248.3	2277.4
12.5°	1835.4	1833.8	1838.4	1857.6	1895.8	1943.2	1997.5	2054.1	2116.0	2179.5	2214.7
15°	1801.0	1792.6	1775.0	1770.4	1791.0	1838.4	1901.1	1970.7	2044.9	2121.4	2165.0
17.5°	1822.4	1807.8	1759.7	1724.5	1721.4	1757.4	1823.9	1901.9	1987.6	2080.9	2135.2
20°	1957.0	1922.6	1804.0	1722.2	1693.9	1711.5	1769.6	1852.2	1953.1	2077.0	2146.6
22.5°	2278.9	2228.5	1976.9	1824.7	1729.1	1707.7	1751.3	1839.2	1957.0	2124.4	2213.2
25°	2747.7	2675.8	2273.6	2080.1	1882.8	1768.8	1778.8	1869.0	2011.3	2234.6	2341.6
27.5°	3117.8	3071.2	2661.3	2440.3	2162.7	1934.0	1868.3	1944.0	2122.2	2415.0	2524.4
30°	3338.1	3309.8	3075.8	2848.7	2519.8	2197.1	2039.6	2084.7	2295.7	2665.1	2755.4
32.5°	3593.5	3576.7	3462.0	3253.2	2905.2	2542.8	2311.0	2295.0	2528.2	2965.7	3007.0
35°	3858.1	3852.8	3785.5	3635.6	3319.0	2998.5	2671.2	2562.6	2781.4	3277.7	3251.7
37.5°	4104.4	4095.2	4056.2	3969.0	3751.8	3488.0	3038.3	2837.2	3054.4	3575.9	3460.4
40°	4557.8	4486.0	4352.1	4286.4	4189.2	3900.2	3329.7	3093.4	3337.3	3860.4	3640.9
42.5°	5110.8	4993.8	4744.4	4654.2	4640.4	4225.2	3528.5	3341.9	3622.6	4142.6	3818.3
45°	5545.9	5435.8	5220.9	5106.9	5157.4	4519.6	3728.1	3607.3	3916.2	4438.5	4001.1
47.5°	6010.1	5837.3	5552.8	5587.2	5697.3	4798.0	3931.5	3892.5	4238.2	4769.7	4228.2
50°	6026.9	5894.6	5770.0	5975.7	6147.0	5054.2	4186.2	4191.5	4632.0	5186.5	4530.3
52.5°	5677.4	5649.1	5847.2	6170.7	6417.7	5256.8	4476.0	4500.5	5136.0	5665.2	4862.2
55°	5555.1	5523.0	5751.6	6102.6	6454.4	5424.3	4790.3	4834.7	5745.5	6169.9	5185.7
57.5°	5853.3	5782.2	5797.5	6070.5	6364.9	5607.8	5132.9	5222.4	6407.8	6611.2	5393.7
60°	6686.9	6534.7	6245.6	6238.7	6413.1	5883.1	5529.1	5638.4	7096.0	6822.2	5312.6
62.5°	7856.2	7704.0	7162.6	6810.0	6784.0	6337.4	6015.4	6044.5	7493.7	6536.2	4817.9
65°	9121.8	8985.7	8380.8	7882.9	7642.8	7089.9	6580.6	6225.7	7363.7	5749.3	3952.2
67.5°	10658.2	10512.1	9992.1	9532.5	9301.5	8304.3	6977.5	6052.2	6538.5	4453.8	2841.0
70°	11732.6	11583.5	11378.6	11751.0	12316.1	10056.3	7028.7	5346.3	4883.6	2960.3	1710.0
72.5°	10330.9	10261.3	10635.2	12203.7	14557.6	11119.3	6353.5	3892.5	2836.4	1571.5	989.6
73°	9465.2	9449.9	10087.7	11886.4	14573.6	10955.7	6057.5	3618.0	2432.6	1390.3	904.7
75°	4274.1	4397.3	5795.2	9079.0	12661.8	9027.8	4263.4	2075.5	1374.2	960.5	682.9
77.5°	1027.0	1069.9	1813.2	4311.6	7996.1	5379.9	1931.7	1026.3	878.7	678.3	498.6
80°	437.4	452.0	698.2	1593.0	3764.8	2166.5	890.2	687.5	608.0	473.4	349.5
82.5°	243.2	258.5	396.1	722.7	1519.5	738.7	543.0	478.7	400.0	285.2	227.1
85°	137.7	146.1	231.7	403.8	643.9	296.7	325.0	318.1	225.6	146.8	111.7
87.5°	65.0	70.4	111.7	187.4	252.4	116.2	165.2	182.0	141.5	89.5	58.1
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°	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6	2403.6
2.5°	2402.0	2415.8	2431.9	2440.3	2447.9	2457.1	2466.3	2466.3	2467.8	2468.6
5°	2385.2	2413.5	2438.8	2449.5	2451.8	2451.8	2449.5	2437.2	2426.5	2431.1
7.5°	2350.0	2391.3	2412.8	2408.9	2379.9	2346.2	2317.9	2283.5	2265.9	2262.9
10°	2299.6	2347.0	2350.8	2312.6	2240.7	2168.8	2109.2	2051.0	2023.5	2016.6
12.5°	2243.7	2287.3	2262.9	2184.1	2068.6	1963.9	1888.1	1829.3	1803.3	1796.4
15°	2198.6	2228.5	2166.5	2042.6	1897.3	1786.4	1723.7	1680.1	1661.8	1656.4
17.5°	2174.9	2181.0	2067.9	1900.4	1745.9	1653.4	1614.4	1593.7	1586.8	1583.0
20°	2186.4	2143.6	1973.8	1768.1	1622.0	1557.0	1547.8	1542.5	1541.0	1538.7
22.5°	2243.7	2132.1	1887.4	1642.7	1513.4	1485.1	1492.8	1492.0	1490.5	1488.9
25°	2346.2	2142.0	1803.3	1523.4	1422.4	1416.3	1430.1	1430.1	1423.9	1423.9
27.5°	2481.6	2162.7	1709.2	1410.2	1339.8	1340.6	1351.3	1348.2	1341.4	1336.8
30°	2646.8	2175.7	1599.1	1308.5	1262.6	1259.5	1262.6	1249.6	1228.9	1227.4
32.5°	2815.8	2159.6	1471.4	1218.2	1180.8	1173.9	1171.6	1153.2	1129.5	1122.6
35°	2968.7	2100.7	1341.4	1146.3	1102.8	1087.5	1098.2	1092.0	1070.6	1065.3
37.5°	3080.4	1991.4	1224.3	1082.9	1046.9	1043.1	1050.0	1052.3	1027.0	1021.7
40°	3155.3	1843.0	1124.2	1029.3	1036.2	1021.7	998.8	982.7	975.0	972.7
42.5°	3215.7	1688.5	1040.0	1004.1	1038.5	996.5	946.7	920.7	934.5	940.6
45°	3285.3	1537.9	969.7	972.7	1027.0	967.4	910.8	885.6	890.9	892.5
47.5°	3380.9	1354.4	894.0	922.3	988.8	947.5	888.6	852.7	827.4	816.0
50°	3513.2	1137.2	815.2	865.7	951.3	933.0	854.2	816.0	769.3	758.6
52.5°	3605.0	934.5	750.2	818.3	917.7	903.9	826.7	777.0	728.0	718.9
55°	3555.3	776.2	693.6	765.5	873.3	868.0	803.7	737.2	699.0	691.3
57.5°	3306.7	676.0	650.0	715.8	819.0	837.4	773.2	703.6	676.0	670.7
60°	2832.6	613.3	622.5	682.1	774.7	806.8	742.6	685.2	666.9	663.0
62.5°	2197.9	571.3	601.9	657.7	740.3	785.4	725.7	682.9	676.0	671.4
65°	1574.6	537.6	579.7	633.2	708.9	765.5	719.6	679.9	681.4	677.6
67.5°	1069.9	507.8	552.9	605.7	678.3	747.9	711.2	669.1	688.3	683.7
70°	748.7	478.7	521.6	570.5	640.1	723.4	695.9	653.1	651.6	633.2
72.5°	584.3	440.5	478.7	521.6	591.1	689.0	665.3	617.1	591.9	572.8
73°	557.5	431.3	468.0	510.8	580.4	680.6	656.9	607.2	578.9	561.3
75°	461.1	391.5	425.2	463.4	534.6	640.9	615.6	562.1	526.1	515.4
77.5°	362.5	335.0	367.1	401.5	471.1	582.7	554.4	503.2	483.3	474.1
80°	268.4	277.6	305.9	336.5	408.4	520.8	495.6	444.3	533.0	510.8
82.5°	188.9	210.3	236.3	263.8	342.6	460.4	429.8	377.0	390.0	324.2
85°	111.7	137.7	162.1	185.8	247.0	381.6	354.8	300.5	246.2	234.8
87.5°	65.0	76.5	83.4	107.8	169.8	287.5	250.1	222.5	127.7	86.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)