

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: McGRAW-EDISON

Report Number: P158358

Luminaire Tested: **VTS-E07-LED-E1-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158358
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-E07-LED-E1-SL3-8030
Description: VENTUS LED SITE LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (147) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17823.5 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

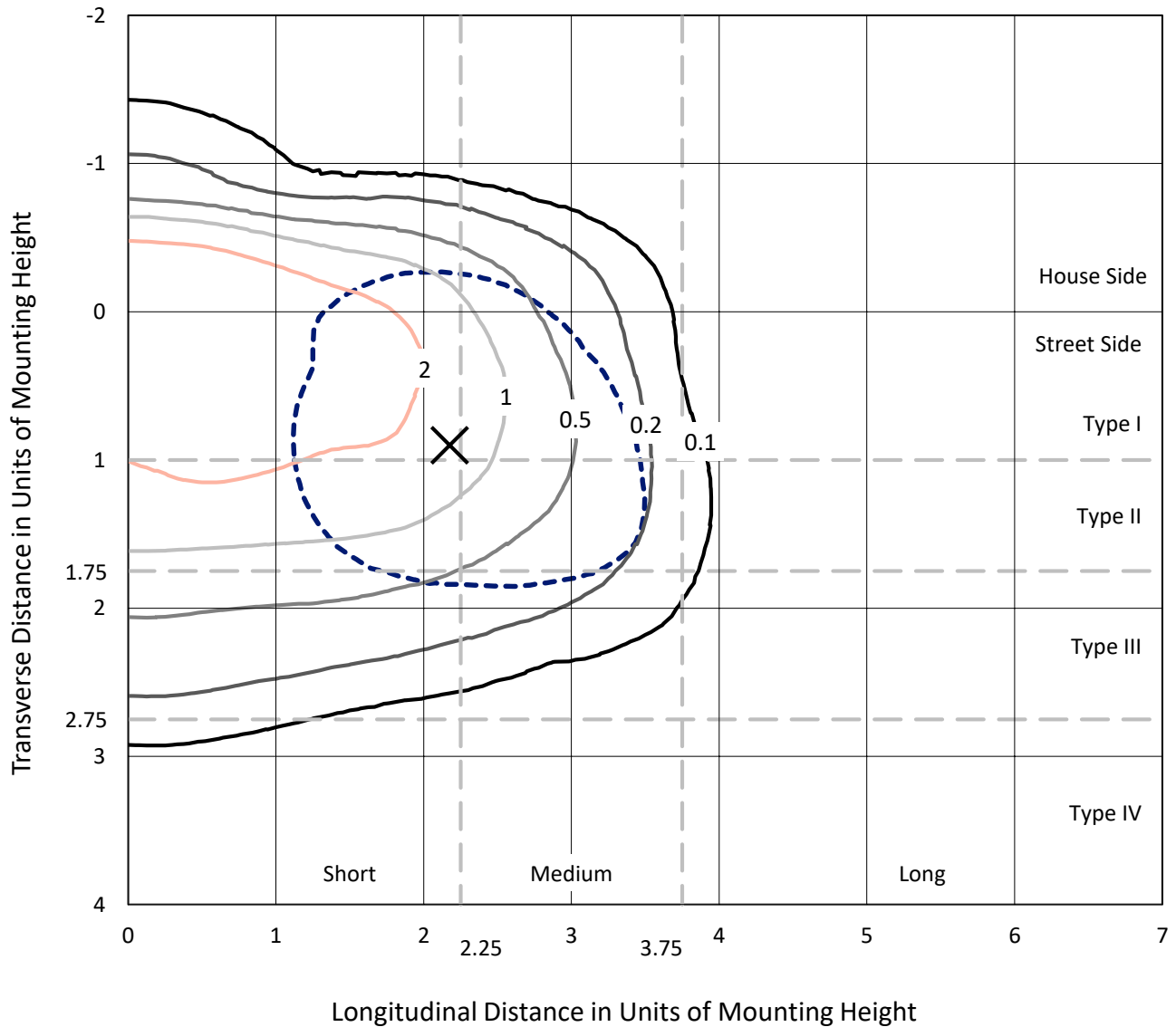
Input Watts (W): 172.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

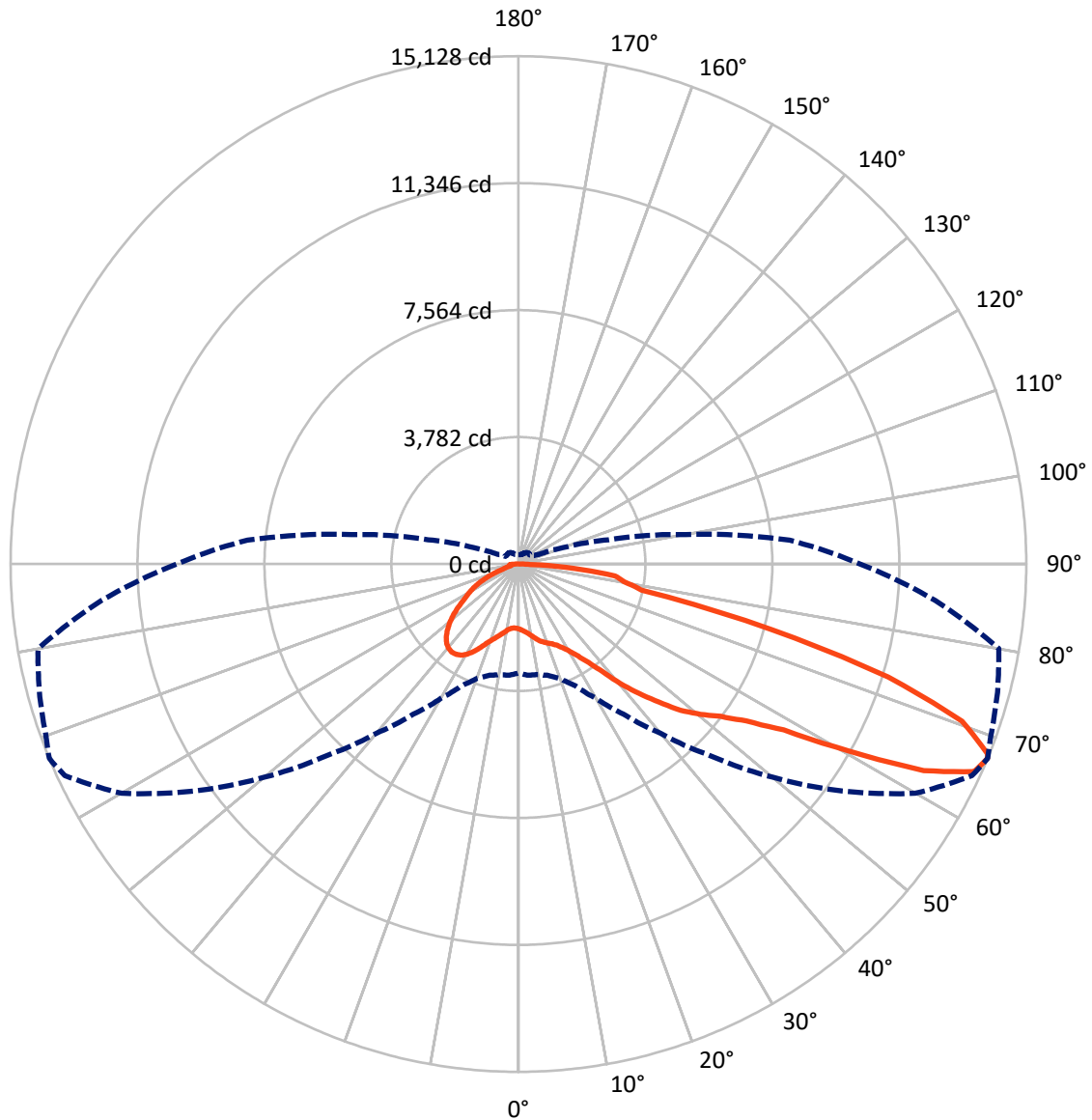
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4275.9	0.0	4275.9
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	13547.6	0.0	13547.6
	% Fixture	76.0	0.0	76.0
Total	Lumens	17823.5	0.0	17823.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	1.1
10°-20°	654.2	3.7
20°-30°	1167.9	6.6
30°-40°	1711.6	9.6
40°-50°	2644.7	14.8
50°-60°	3851.1	21.6
60°-70°	5016.7	28.1
70°-80°	2245.6	12.6
80°-90°	339.6	1.9
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°	17823.5	100.0
0°-180°	17823.5	100.0



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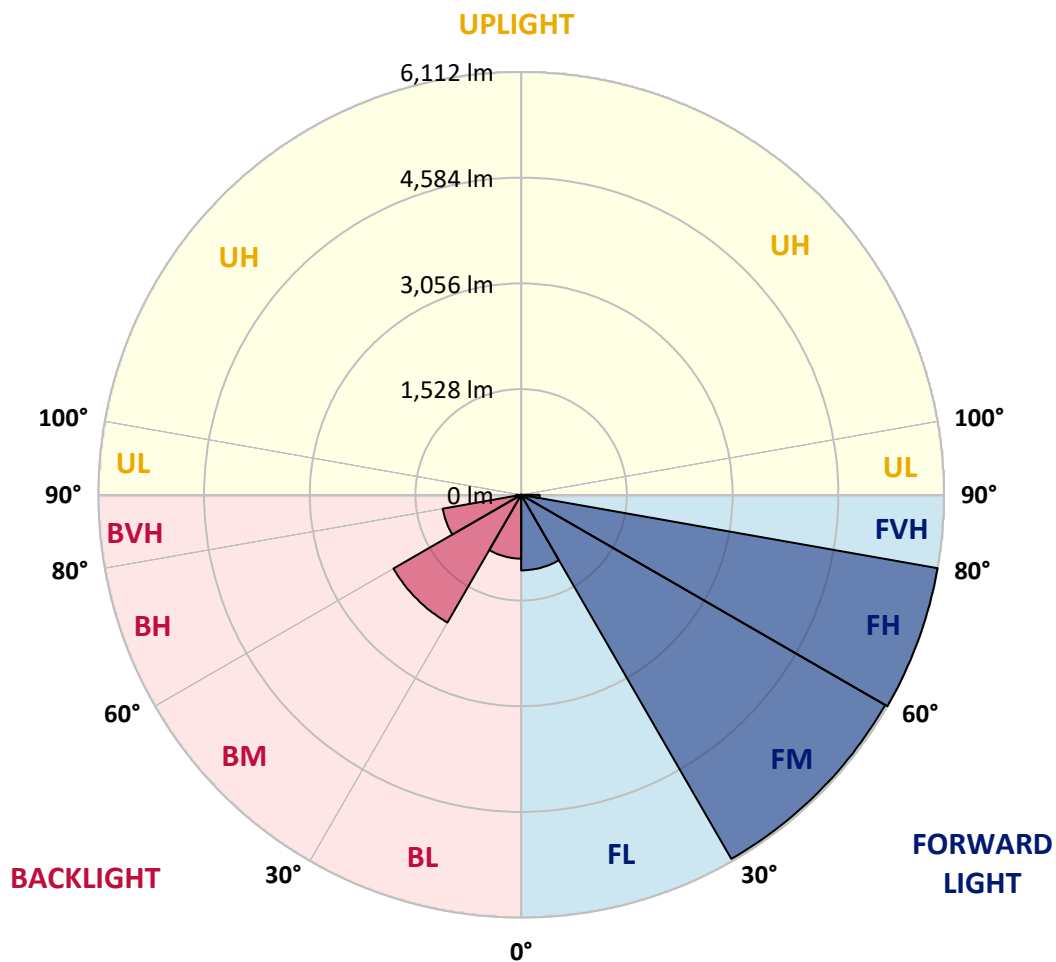
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1092.0	6.1			
FM	(30°-60°)	6076.9	34.1			
FH	(60°-80°)	6112.0	34.3			G3/7500
FVH	(80°-90°)	266.6	1.5			G3/500
BL	(0°-30°)	922.0	5.2	B2/1000		
BM	(30°-60°)	2130.6	12.0	B2/2500		
BH	(60°-80°)	1150.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	72.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9
2.5°	2007.5	2012.2	2013.4	2012.2	2013.4	2008.7	2007.5	2000.4	2004.0	1994.5	1992.2
5°	2116.2	2119.8	2122.1	2112.7	2115.0	2110.3	2104.4	2097.3	2087.9	2074.9	2066.6
7.5°	2222.6	2228.5	2227.3	2223.7	2215.5	2210.7	2198.9	2188.3	2171.8	2156.4	2145.8
10°	2365.5	2364.4	2364.4	2344.3	2332.5	2321.8	2300.6	2284.0	2267.5	2245.0	2233.2
12.5°	2531.0	2522.7	2519.1	2505.0	2480.2	2461.2	2430.5	2398.6	2369.1	2345.5	2326.5
15°	2690.5	2690.5	2681.0	2658.6	2634.9	2610.1	2566.4	2520.3	2471.9	2434.1	2415.2
17.5°	2835.8	2822.8	2814.5	2785.0	2760.2	2720.0	2671.6	2621.9	2561.7	2508.5	2471.9
20°	2942.2	2931.5	2913.8	2877.2	2834.6	2787.4	2730.6	2672.8	2607.8	2549.9	2508.5
22.5°	3003.6	2990.6	2963.4	2915.0	2857.1	2790.9	2724.7	2670.4	2611.3	2567.6	2533.3
25°	3035.5	3022.5	2985.9	2922.1	2844.1	2756.6	2681.0	2627.9	2593.6	2582.9	2578.2
27.5°	3034.3	3023.7	2984.7	2911.4	2811.0	2710.6	2629.0	2584.1	2580.6	2621.9	2652.7
30°	3003.6	2996.5	2961.1	2887.8	2782.6	2677.5	2601.9	2578.2	2614.9	2702.3	2777.9
32.5°	2972.9	2969.3	2944.5	2878.3	2788.5	2699.9	2647.9	2650.3	2725.9	2860.6	2982.3
35°	2976.4	2981.1	2977.6	2942.2	2885.4	2839.4	2814.5	2866.5	2984.7	3147.7	3310.8
37.5°	3007.1	3024.9	3047.3	3050.9	3052.0	3045.0	3096.9	3206.8	3379.3	3592.0	3847.2
40°	3074.5	3094.6	3159.6	3216.3	3289.5	3377.0	3482.1	3634.6	3848.4	4110.7	4423.9
42.5°	3283.6	3312.0	3392.3	3497.5	3632.2	3769.3	3926.4	4134.4	4396.7	4673.2	5001.7
45°	3556.6	3615.7	3704.3	3821.3	4023.3	4215.9	4419.1	4651.9	4930.8	5277.0	5607.8
47.5°	3896.9	3956.0	4084.7	4210.0	4448.7	4688.5	4910.7	5154.1	5456.6	5811.0	6177.3
50°	4194.6	4262.0	4376.6	4545.6	4822.1	5116.3	5362.0	5625.5	5879.6	6253.0	6622.8
52.5°	4428.6	4477.0	4586.9	4741.7	5050.1	5372.7	5683.4	5976.5	6277.8	6651.2	6993.8
55°	4458.1	4503.0	4610.6	4787.8	5100.9	5458.9	5817.0	6164.3	6590.9	6998.5	7452.3
57.5°	4330.5	4367.1	4475.9	4634.2	4939.0	5346.7	5799.2	6244.7	6790.6	7341.2	7895.4
60°	4149.7	4186.4	4271.4	4397.9	4673.2	5112.7	5640.9	6250.6	6976.1	7771.3	8586.6
62.5°	3951.2	3983.1	4051.7	4141.5	4383.7	4789.0	5393.9	6211.6	7127.3	8199.0	9456.2
65°	3616.8	3693.6	3723.2	3815.3	4057.6	4440.4	5056.0	5948.1	7065.9	8389.3	10002.1
67°	3247.0	3325.0	3340.3	3433.7	3627.5	3994.9	4621.2	5460.1	6579.1	8060.8	9881.6
67.5°	3128.8	3195.0	3218.6	3312.0	3495.1	3841.3	4435.7	5284.1	6430.2	7881.2	9736.3
70°	2300.6	2373.8	2399.8	2438.8	2570.0	2858.3	3251.7	3987.9	5126.9	6431.4	8213.2
72.5°	1231.2	1290.3	1315.1	1373.0	1440.4	1597.5	1898.8	2427.0	3146.6	4303.3	5842.9
75°	833.0	856.7	874.4	914.5	984.3	1109.5	1241.8	1427.4	1862.2	2428.2	3325.0
77.5°	475.0	485.6	488.0	495.1	550.6	670.0	887.4	1201.7	1540.8	1759.4	2126.9
80°	205.6	226.9	243.4	232.8	229.2	254.0	317.8	473.8	928.7	1474.6	1749.9
82.5°	111.1	120.5	134.7	135.9	143.0	151.2	164.2	195.0	274.1	553.0	1206.4
85°	57.9	60.3	80.3	92.2	98.1	102.8	105.2	117.0	134.7	171.3	300.1
87.5°	8.3	11.8	14.2	18.9	21.3	22.5	26.0	33.1	39.0	47.3	80.3
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9
2.5°	1981.5	1979.2	1972.1	1967.3	1962.6	1957.9	1952.0	1947.3	1939.0	1933.1	1926.0
5°	2054.8	2040.6	2031.1	2018.2	2015.8	2000.4	1985.1	1978.0	1963.8	1952.0	1937.8
7.5°	2129.2	2112.7	2097.3	2086.7	2080.8	2059.5	2044.1	2026.4	2009.9	1994.5	1978.0
10°	2216.7	2200.1	2183.6	2176.5	2165.8	2145.8	2132.8	2110.3	2093.8	2074.9	2052.4
12.5°	2307.6	2295.8	2284.0	2274.6	2269.8	2260.4	2241.5	2222.6	2200.1	2181.2	2155.2
15°	2388.0	2379.7	2375.0	2372.6	2372.6	2366.7	2349.0	2331.3	2307.6	2286.4	2258.0
17.5°	2444.7	2441.2	2444.7	2448.2	2453.0	2448.2	2444.7	2424.6	2409.3	2383.3	2354.9
20°	2477.8	2484.9	2502.6	2514.4	2525.1	2533.3	2536.9	2520.3	2500.2	2481.3	2462.4
22.5°	2513.2	2533.3	2564.0	2581.8	2599.5	2629.0	2636.1	2624.3	2608.9	2597.1	2577.0
25°	2572.3	2601.9	2655.0	2683.4	2708.2	2751.9	2757.8	2760.2	2756.6	2747.2	2722.4
27.5°	2664.5	2722.4	2793.3	2829.9	2857.1	2913.8	2936.2	2936.2	2926.8	2937.4	2937.4
30°	2825.2	2902.0	2994.1	3015.4	3057.9	3107.6	3144.2	3148.9	3150.1	3172.6	3205.6
32.5°	3072.1	3145.4	3248.2	3271.8	3308.4	3355.7	3397.1	3392.3	3403.0	3451.4	3495.1
35°	3431.3	3505.8	3573.1	3605.0	3621.6	3664.1	3679.5	3705.5	3737.4	3797.6	3791.7
37.5°	3963.0	4029.2	4038.7	4058.8	4038.7	4046.9	4058.8	4089.5	4174.5	4228.9	4141.5
40°	4603.5	4713.4	4702.7	4679.1	4634.2	4573.9	4595.2	4642.5	4734.6	4687.4	4452.2
42.5°	5207.3	5320.7	5299.4	5272.2	5173.0	5150.5	5148.2	5187.2	5236.8	5102.1	4695.6
45°	5801.6	5917.4	5880.8	5865.4	5799.2	5750.8	5791.0	5793.3	5780.3	5492.0	4908.3
47.5°	6414.8	6521.2	6497.5	6510.5	6442.0	6410.1	6413.7	6397.1	6275.4	5822.9	5073.7
50°	6909.9	7052.9	7067.1	7037.5	7000.9	6952.5	7076.5	7031.6	6761.0	6144.3	5233.3
52.5°	7295.1	7487.7	7561.0	7542.1	7512.5	7518.4	7751.2	7802.0	7354.2	6549.5	5409.3
55°	7751.2	8054.9	8174.2	8245.1	8214.4	8332.6	8865.4	8891.4	8178.9	7078.9	5638.5
57.5°	8409.4	8844.2	9221.1	9321.5	9418.4	9802.4	10667.4	10403.9	9249.5	7880.0	5929.2
60°	9410.2	10362.5	10974.6	11296.0	11522.8	12059.3	12881.7	12214.1	10583.5	8833.5	6294.3
62.5°	10811.5	12203.4	13226.7	13549.3	13642.6	13951.0	14546.5	13269.2	11310.2	9261.3	6326.2
65°	11854.9	13524.4	14749.8	14915.2	14804.1	14810.0	14966.0	13213.7	11039.6	8887.9	5778.0
67°	11786.3	13655.6	14910.5	15127.9	14974.3	14772.2	14528.8	12461.0	10169.9	8105.7	5059.6
67.5°	11681.2	13529.2	14840.7	15070.0	14929.4	14698.9	14343.3	12169.2	9899.3	7862.3	4913.0
70°	10097.8	11932.9	13699.3	14021.9	14081.0	13870.7	12872.2	10260.9	8037.2	6395.9	3815.3
72.5°	7859.9	9494.1	11241.6	11521.7	11748.5	11142.4	9368.8	7087.2	5858.3	4609.4	2762.6
75°	5189.5	6852.0	7733.5	7774.8	7485.4	6362.8	4577.5	3549.5	3267.1	2709.4	1709.8
77.5°	2776.7	4029.2	4054.0	3753.9	3616.8	2696.4	1094.1	603.8	672.3	763.3	680.6
80°	2071.3	2566.4	2974.1	3197.4	3263.5	2312.4	566.0	320.2	280.0	255.2	251.7
82.5°	1868.1	2479.0	2779.1	2900.8	2870.1	1902.4	317.8	215.0	178.4	193.8	221.0
85°	732.6	1323.4	1740.5	1684.9	1415.5	709.0	173.7	115.8	115.8	167.8	217.4
87.5°	150.1	271.8	368.7	352.1	316.7	137.1	85.1	69.7	70.9	135.9	205.6
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9	1931.9
2.5°	1918.9	1911.8	1907.1	1902.4	1897.6	1895.3	1891.7	1891.7	1884.6	1882.3	1879.9
5°	1927.2	1915.4	1907.1	1896.4	1888.2	1881.1	1871.6	1869.3	1861.0	1855.1	1852.7
7.5°	1962.6	1944.9	1927.2	1914.2	1902.4	1887.0	1876.4	1866.9	1858.6	1852.7	1845.6
10°	2030.0	2011.1	1986.2	1962.6	1947.3	1923.6	1907.1	1890.5	1881.1	1874.0	1864.5
12.5°	2129.2	2102.0	2072.5	2044.1	2018.2	1987.4	1970.9	1950.8	1939.0	1933.1	1926.0
15°	2230.8	2201.3	2164.7	2137.5	2108.0	2084.3	2069.0	2051.2	2041.8	2034.7	2030.0
17.5°	2334.8	2300.6	2274.6	2247.4	2233.2	2215.5	2195.4	2172.9	2145.8	2129.2	2106.8
20°	2441.2	2415.2	2399.8	2384.4	2367.9	2343.1	2302.9	2256.8	2206.0	2157.6	2111.5
22.5°	2565.2	2549.9	2547.5	2533.3	2499.1	2440.0	2365.5	2279.3	2193.0	2112.7	2050.1
25°	2740.1	2740.1	2728.3	2670.4	2590.0	2483.7	2358.4	2234.4	2119.8	2009.9	1927.2
27.5°	2959.9	2951.6	2893.7	2774.4	2630.2	2464.8	2297.0	2139.9	1993.3	1872.8	1766.5
30°	3202.1	3144.2	3020.1	2832.3	2616.0	2403.3	2197.8	2015.8	1843.3	1695.6	1570.3
32.5°	3453.8	3313.2	3089.9	2832.3	2566.4	2311.2	2073.7	1850.4	1653.0	1487.6	1338.7
35°	3681.8	3425.4	3106.4	2786.2	2469.5	2175.3	1900.0	1647.1	1410.8	1232.4	1069.3
37.5°	3888.6	3499.9	3088.7	2696.4	2328.9	1983.9	1661.3	1382.5	1115.4	942.9	803.5
40°	4023.3	3515.2	3015.4	2555.8	2128.0	1725.1	1368.3	1056.3	844.8	687.7	594.3
42.5°	4107.2	3485.7	2897.3	2363.2	1857.5	1400.2	1026.8	757.4	600.2	512.8	477.4
45°	4154.5	3408.9	2722.4	2099.7	1530.2	1064.6	729.0	547.1	462.0	431.3	419.5
47.5°	4152.1	3284.8	2503.8	1794.8	1168.6	742.0	516.4	426.6	402.9	393.5	391.1
50°	4127.3	3132.4	2247.4	1464.0	843.7	517.5	408.8	382.8	376.9	371.0	368.7
52.5°	4093.0	2943.3	1963.8	1141.4	599.1	413.6	371.0	363.9	359.2	353.3	350.9
55°	4029.2	2710.6	1656.6	859.0	469.1	373.4	358.0	355.7	349.7	341.5	336.8
57.5°	3951.2	2474.2	1362.4	671.1	414.7	363.9	355.7	352.1	343.8	334.4	324.9
60°	3922.9	2279.3	1132.0	566.0	401.7	367.5	361.6	356.8	345.0	330.8	320.2
62.5°	3745.6	2059.5	966.5	524.6	408.8	382.8	380.5	373.4	355.7	339.1	322.6
65°	3287.2	1741.7	818.8	496.3	423.0	408.8	411.2	400.6	382.8	360.4	330.8
67°	2780.3	1420.3	681.8	469.1	433.6	436.0	444.3	436.0	413.6	381.7	341.5
67.5°	2645.6	1338.7	647.5	460.8	436.0	443.1	452.5	446.6	424.2	387.6	346.2
70°	1966.2	942.9	483.3	417.1	436.0	464.4	485.6	491.5	466.7	415.9	355.7
72.5°	1384.8	608.5	371.0	361.6	395.8	433.6	473.8	493.9	465.5	410.0	342.7
75°	831.8	380.5	301.3	307.2	333.2	372.2	404.1	412.4	376.9	341.5	296.6
77.5°	385.2	252.9	236.3	244.6	269.4	287.1	287.1	270.6	243.4	222.1	212.7
80°	226.9	206.8	205.6	221.0	237.5	224.5	204.4	182.0	167.8	160.7	157.2
82.5°	212.7	221.0	235.1	238.7	225.7	193.8	169.0	146.5	139.4	135.9	132.3
85°	250.5	268.2	244.6	225.7	199.7	163.1	132.3	113.4	109.9	106.3	101.6
87.5°	231.6	221.0	192.6	165.4	137.1	99.3	72.1	65.0	69.7	68.5	66.2
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):

	160°	165°	170°	175°	180°
0°	1931.9	1931.9	1931.9	1931.9	1931.9
2.5°	1881.1	1881.1	1876.4	1874.0	1879.9
5°	1848.0	1849.2	1845.6	1844.5	1845.6
7.5°	1840.9	1839.7	1837.4	1835.0	1837.4
10°	1862.2	1861.0	1857.5	1859.8	1856.3
12.5°	1926.0	1933.1	1931.9	1934.3	1939.0
15°	2030.0	2028.8	2025.2	2027.6	2031.1
17.5°	2089.0	2079.6	2071.3	2067.8	2067.8
20°	2074.9	2047.7	2033.5	2025.2	2022.9
22.5°	1991.0	1952.0	1922.4	1915.4	1909.4
25°	1853.9	1805.5	1767.7	1759.4	1744.0
27.5°	1694.4	1629.4	1584.5	1575.1	1566.8
30°	1485.3	1410.8	1358.8	1325.7	1336.4
32.5°	1230.0	1159.1	1098.9	1045.7	1037.4
35°	950.0	872.0	818.8	795.2	779.8
37.5°	709.0	644.0	608.5	586.1	587.2
40°	542.3	508.1	489.2	473.8	475.0
42.5°	452.5	437.2	432.5	425.4	421.8
45°	410.0	405.3	406.5	399.4	397.0
47.5°	386.4	382.8	384.0	379.3	378.1
50°	367.5	365.1	366.3	362.7	361.6
52.5°	348.6	349.7	348.6	346.2	346.2
55°	332.0	330.8	333.2	329.7	329.7
57.5°	319.0	317.8	317.8	316.7	316.7
60°	311.9	307.2	306.0	306.0	307.2
62.5°	308.4	300.1	298.9	298.9	300.1
65°	309.6	296.6	291.9	290.7	289.5
67°	310.8	291.9	282.4	277.7	276.5
67.5°	311.9	289.5	278.9	274.1	271.8
70°	304.8	272.9	257.6	249.3	247.0
72.5°	287.1	252.9	234.0	223.3	221.0
75°	255.2	229.2	212.7	200.9	196.1
77.5°	197.3	185.5	179.6	172.5	170.1
80°	153.6	147.7	145.3	140.6	139.4
82.5°	127.6	121.7	118.2	112.3	108.7
85°	99.3	92.2	89.8	85.1	82.7
87.5°	65.0	61.4	60.3	54.4	52.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)