

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: P149086

Luminaire Tested: **TMU-F04-LED-E-U-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149086
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-F04-LED-E-U-RW-7050
Description: TALON MEDIUM LED AREA LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (28) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10584.8 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 102.2
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

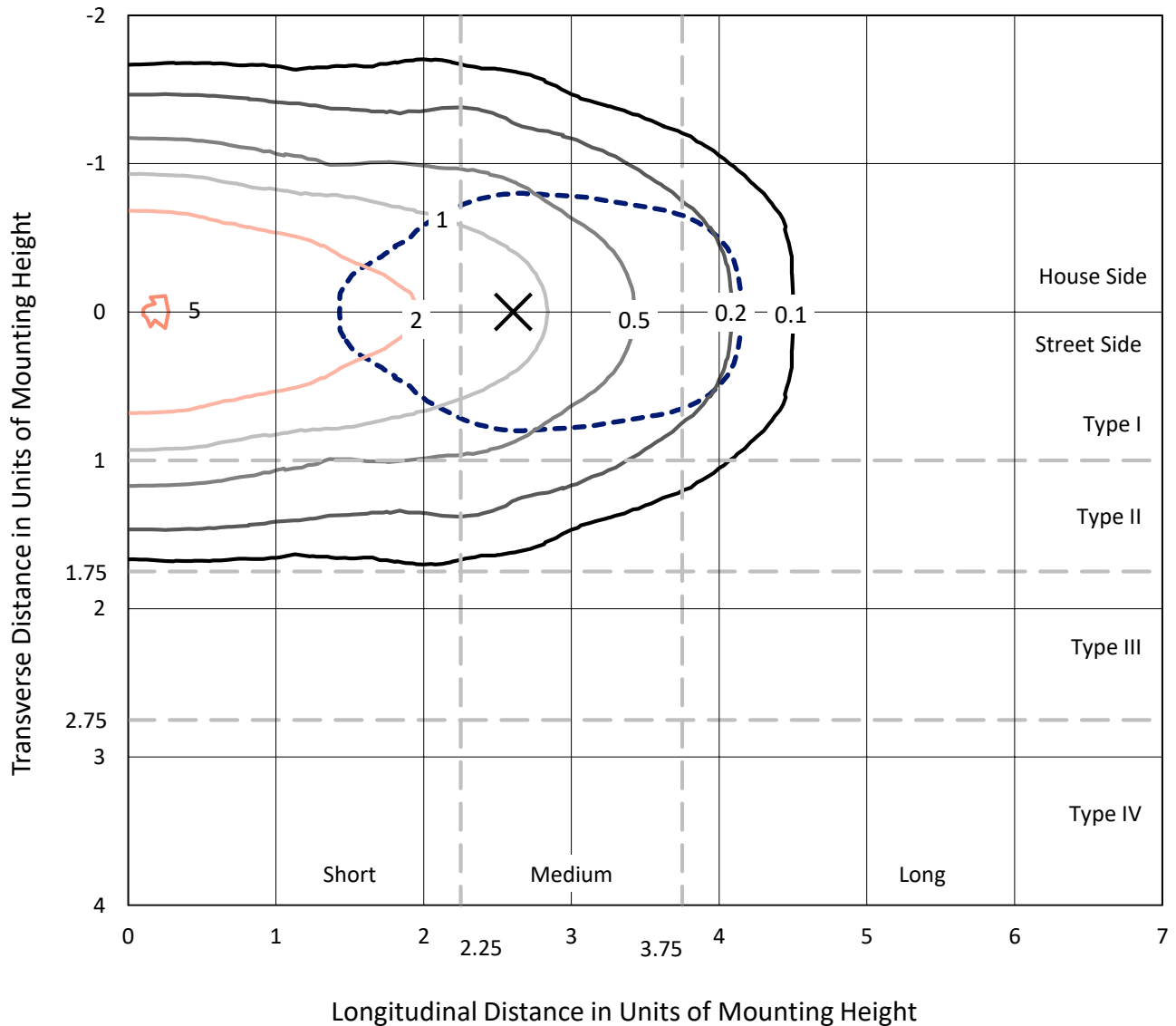


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

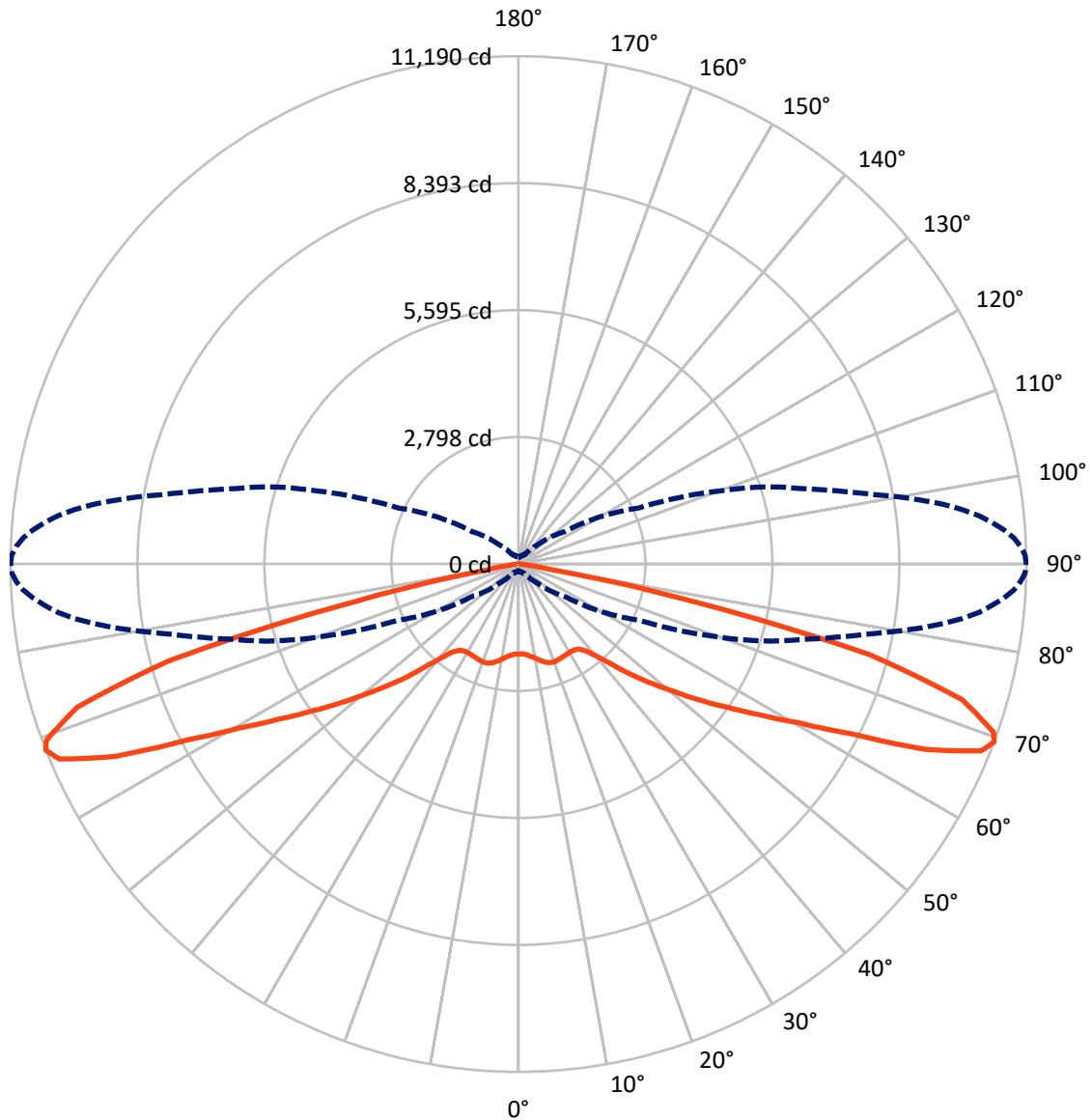


Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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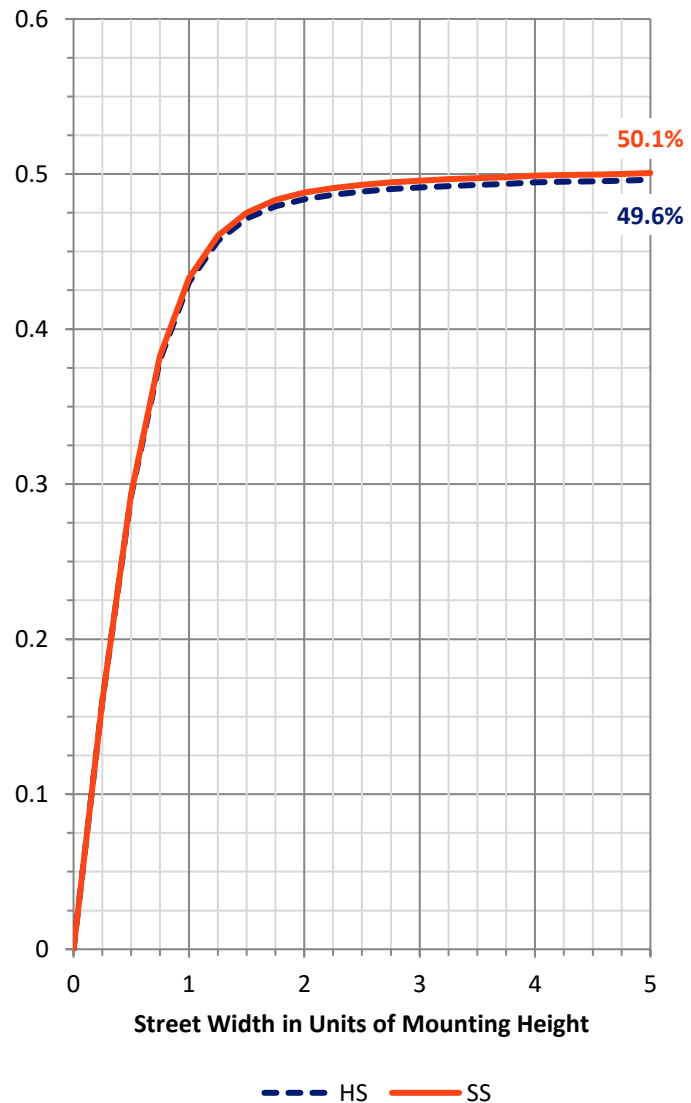
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5292.4	0.0	5292.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5292.4	0.0	5292.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	10584.8	0.0	10584.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	1.8
10°-20°	613.7	5.8
20°-30°	994.2	9.4
30°-40°	1239.1	11.7
40°-50°	1548.4	14.6
50°-60°	1911.9	18.1
60°-70°	2375.7	22.4
70°-80°	1577.1	14.9
80°-90°	130.2	1.2
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°	10584.8	100.0
0°-180°	10584.8	100.0



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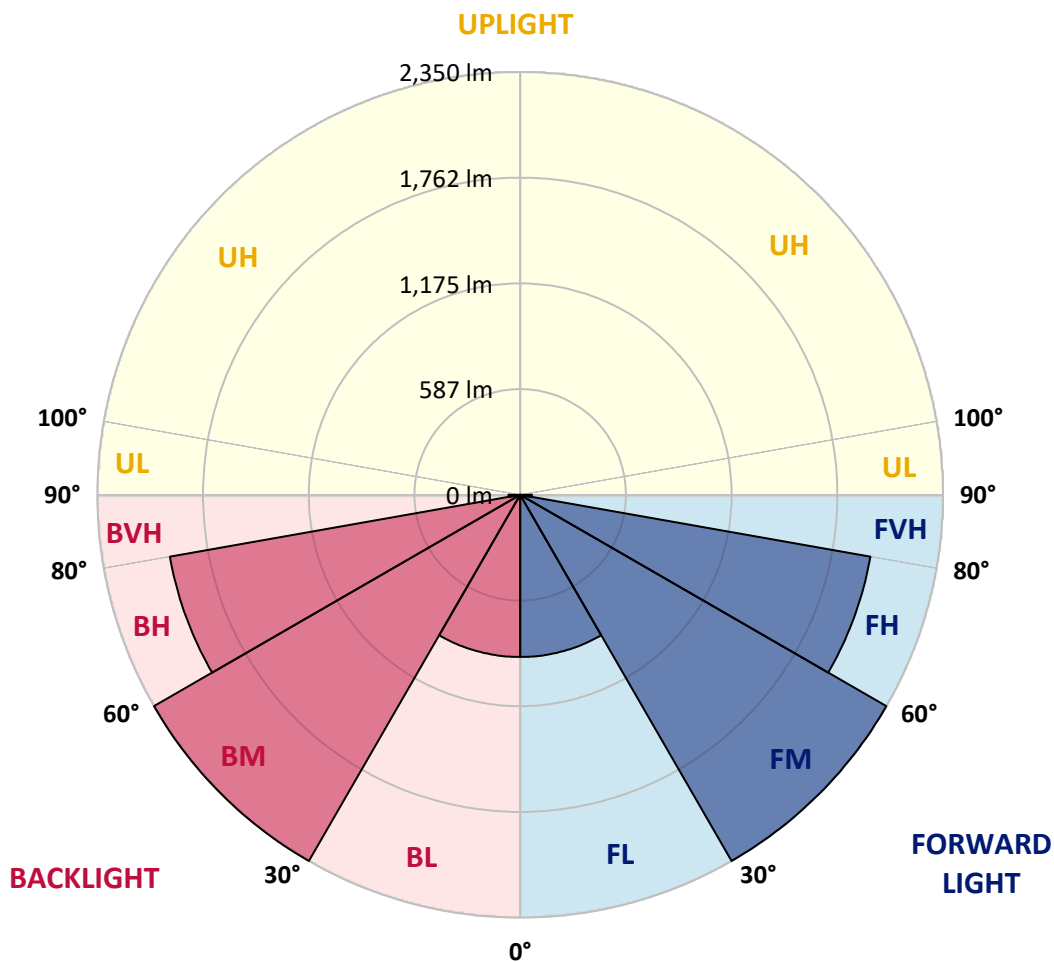
CATALOG NUMBER: TMU-F04-LED-E-U-RW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	901.2	8.5			
FM	(30°-60°)	2349.7	22.2			
FH	(60°-80°)	1976.4	18.7			G2/5000
FVH	(80°-90°)	65.1	0.6			G1/100
BL	(0°-30°)	901.2	8.5	B2/1000		
BM	(30°-60°)	2349.7	22.2	B2/2500		
BH	(60°-80°)	1976.4	18.7	B3/2500		G2/5000
BVH	(80°-90°)	65.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3
2.5°	1992.4	1994.0	1992.9	1995.2	1994.6	1994.6	1993.4	1991.2	1990.9	1990.6	1990.4
5°	2011.6	2009.2	2012.6	2016.0	2014.9	2015.5	2014.9	2015.0	2014.7	2014.5	2014.3
7.5°	2031.9	2031.3	2033.6	2042.6	2043.7	2047.1	2051.1	2053.9	2054.0	2054.1	2054.2
10°	2049.4	2049.9	2055.6	2068.6	2075.4	2086.0	2096.8	2105.2	2105.9	2106.5	2107.1
12.5°	2063.4	2064.0	2072.5	2092.8	2109.2	2129.6	2152.7	2165.7	2166.8	2168.0	2169.1
15°	2064.6	2066.3	2081.0	2114.3	2147.0	2180.4	2208.0	2225.6	2226.5	2227.4	2228.3
17.5°	2049.9	2051.0	2075.9	2125.0	2179.8	2231.8	2260.6	2268.4	2268.8	2269.1	2269.5
20°	2011.6	2014.4	2049.4	2122.2	2205.8	2273.6	2303.5	2292.8	2291.7	2290.6	2289.5
22.5°	1949.4	1948.8	1994.6	2092.8	2210.8	2306.3	2332.8	2304.6	2301.3	2298.0	2294.6
25°	1848.8	1855.6	1909.3	2026.8	2182.0	2313.6	2353.8	2310.8	2306.0	2301.2	2296.4
27.5°	1739.9	1743.8	1800.9	1926.8	2114.9	2288.2	2363.9	2323.2	2317.9	2312.5	2307.2
30°	1612.8	1617.9	1678.9	1810.5	2007.0	2222.8	2361.1	2351.5	2345.2	2339.0	2332.7
32.5°	1488.6	1494.2	1549.0	1693.0	1893.5	2133.0	2344.2	2391.6	2385.1	2378.7	2372.2
35°	1359.9	1368.3	1435.0	1580.6	1784.0	2033.0	2318.1	2443.0	2439.4	2435.8	2432.3
37.5°	1253.1	1254.8	1319.2	1472.2	1682.2	1937.6	2283.8	2507.9	2510.5	2513.1	2515.7
40°	1134.0	1144.7	1209.1	1370.6	1590.2	1856.8	2251.0	2596.0	2609.5	2623.0	2636.5
42.5°	1027.2	1028.4	1093.8	1260.4	1490.3	1791.8	2232.9	2702.2	2731.0	2759.9	2788.7
45°	914.8	919.4	978.6	1139.6	1375.1	1715.0	2232.3	2824.7	2870.8	2916.9	2962.9
47.5°	808.7	810.4	873.0	1022.7	1242.9	1607.8	2228.4	2956.3	3019.0	3081.8	3144.5
50°	707.0	705.3	766.9	910.8	1112.5	1467.1	2193.9	3105.4	3184.6	3263.9	3343.1
52.5°	590.7	598.6	662.4	800.2	993.9	1324.2	2093.4	3268.6	3363.4	3458.1	3552.9
55°	476.6	480.0	548.4	677.0	873.6	1191.0	1918.3	3418.8	3530.5	3642.2	3753.9
57.5°	351.2	361.4	421.2	548.3	751.7	1078.6	1695.8	3496.8	3632.7	3768.6	3904.5
60°	247.9	255.8	308.9	415.6	617.8	960.6	1504.4	3453.2	3629.9	3806.5	3983.2
62.5°	193.2	199.4	241.7	311.2	481.7	842.6	1367.1	3312.6	3553.0	3793.3	4033.7
65°	169.4	175.0	213.4	249.0	359.8	722.3	1292.1	3164.2	3481.9	3799.6	4117.3
67.5°	153.0	159.9	193.1	218.0	293.1	630.2	1272.3	3070.4	3430.2	3790.0	4149.9
69°	145.7	152.4	182.4	203.3	272.2	597.4	1238.4	2923.0	3280.7	3638.5	3996.2
70°	141.2	146.8	174.5	196.0	265.4	574.8	1181.9	2738.9	3090.2	3441.5	3792.8
72.5°	131.0	133.8	158.1	179.0	246.2	464.8	909.2	2034.1	2338.6	2643.2	2947.8
75°	115.8	119.2	141.8	162.1	192.0	288.5	575.4	1258.2	1485.6	1712.9	1940.3
77.5°	99.9	102.8	122.6	154.7	149.1	180.1	343.9	700.2	832.1	964.0	1095.8
80°	80.2	83.6	101.1	153.6	123.1	140.0	247.4	489.6	525.2	560.8	596.3
82.5°	58.7	61.6	79.0	124.2	94.3	105.6	188.6	415.1	427.5	439.8	452.2
85°	29.9	30.5	50.2	75.6	59.8	54.8	106.2	284.0	292.0	299.9	307.8
87.5°	5.1	5.1	11.3	13.0	14.6	9.0	13.6	48.6	50.1	51.6	53.1
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3
2.5°	1990.1	1989.8	1988.8	1989.0	1989.7	1989.3	1990.0	1990.2	1990.9	1988.7	1988.2
5°	2014.0	2013.8	2013.7	2013.6	2014.0	2013.9	2014.4	2015.2	2015.0	2013.7	2013.5
7.5°	2054.4	2054.5	2055.0	2054.5	2055.6	2055.0	2053.9	2055.7	2056.9	2057.0	2058.3
10°	2107.8	2108.4	2110.3	2110.1	2112.0	2111.8	2112.0	2113.9	2115.3	2115.5	2116.9
12.5°	2170.2	2171.3	2172.3	2173.4	2175.5	2174.3	2177.0	2178.1	2179.8	2183.2	2181.5
15°	2229.2	2230.1	2233.1	2233.3	2235.2	2236.0	2238.6	2239.6	2240.0	2242.7	2243.2
17.5°	2269.8	2270.2	2271.3	2270.7	2272.4	2271.8	2273.6	2274.4	2275.9	2277.4	2280.0
20°	2288.5	2287.4	2286.8	2286.1	2285.0	2283.2	2283.7	2284.5	2284.7	2286.1	2288.0
22.5°	2291.3	2288.0	2284.5	2282.2	2278.7	2275.8	2273.0	2273.2	2273.4	2273.1	2274.4
25°	2291.6	2286.8	2281.5	2275.0	2270.2	2263.7	2258.3	2257.9	2256.3	2256.4	2257.1
27.5°	2301.8	2296.4	2288.9	2281.4	2271.1	2262.5	2253.8	2250.8	2247.7	2245.8	2245.0
30°	2326.4	2320.1	2311.2	2301.6	2290.4	2276.9	2264.6	2260.7	2256.3	2252.4	2249.1
32.5°	2365.8	2359.4	2349.4	2339.5	2324.5	2311.2	2299.0	2292.7	2286.5	2279.7	2273.6
35°	2428.7	2425.2	2416.4	2407.7	2396.7	2386.2	2375.2	2368.2	2357.8	2352.5	2344.9
37.5°	2518.3	2520.9	2520.9	2522.0	2518.6	2513.5	2505.6	2498.3	2494.9	2480.8	2471.8
40°	2650.0	2663.5	2675.8	2685.4	2693.8	2702.2	2709.5	2705.2	2706.6	2702.8	2697.4
42.5°	2817.6	2846.5	2872.8	2899.2	2918.2	2948.0	2968.7	2975.2	2992.0	2998.5	3010.7
45°	3009.0	3055.1	3099.4	3140.3	3178.3	3220.9	3262.4	3293.2	3326.9	3365.0	3403.2
47.5°	3207.3	3270.0	3335.2	3388.6	3443.6	3506.6	3561.6	3608.1	3668.6	3724.7	3786.3
50°	3422.3	3501.5	3575.8	3641.6	3712.5	3785.0	3860.4	3928.6	4010.4	4100.0	4197.1
52.5°	3647.6	3742.4	3828.4	3910.9	3994.0	4077.2	4157.5	4253.8	4354.7	4473.0	4594.2
55°	3865.6	3977.3	4074.8	4166.6	4261.8	4354.8	4437.6	4566.4	4690.2	4831.5	4989.7
57.5°	4040.4	4176.4	4288.8	4397.8	4505.2	4604.1	4705.8	4851.1	5008.9	5174.0	5374.7
60°	4159.8	4336.4	4480.0	4611.1	4742.8	4867.2	4984.2	5174.2	5361.9	5567.1	5816.9
62.5°	4274.0	4514.4	4701.6	4880.4	5058.1	5217.7	5363.2	5602.1	5847.3	6101.0	6398.1
65°	4435.0	4752.7	5028.5	5277.7	5523.6	5758.2	5975.8	6278.6	6588.2	6922.1	7276.8
67.5°	4509.7	4869.5	5228.7	5564.7	5877.0	6174.1	6453.6	6819.6	7184.0	7570.9	7999.7
69°	4354.0	4711.7	5095.7	5462.7	5807.7	6122.7	6425.4	6799.1	7177.9	7573.1	8005.5
70°	4144.1	4495.4	4883.0	5266.6	5596.6	5924.8	6238.4	6609.2	6993.0	7389.2	7841.9
72.5°	3252.3	3556.8	3934.8	4307.2	4638.2	4967.7	5272.2	5651.7	6038.0	6454.2	6882.8
75°	2167.6	2395.0	2676.6	3021.9	3325.6	3616.7	3911.8	4232.8	4609.7	4952.7	5344.8
77.5°	1227.7	1359.6	1523.2	1747.8	1965.6	2139.9	2350.4	2501.4	2720.1	2909.0	3108.6
80°	631.9	667.5	716.2	770.1	800.8	796.0	827.3	796.3	803.3	777.9	751.0
82.5°	464.5	476.9	499.0	509.8	508.7	473.2	435.4	383.0	336.8	288.4	243.8
85°	315.7	323.6	329.1	337.5	335.1	319.7	285.8	240.2	195.8	157.1	125.7
87.5°	54.6	56.2	55.8	60.5	60.6	56.3	46.3	39.5	33.3	24.8	17.5
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):

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3	1983.3
2.5°	1987.8	1987.8	1989.0	1987.8	1987.8	1987.8	1987.2	1988.4	1987.8	1986.1	1984.4
5°	2013.8	2012.1	2011.6	2012.6	2013.8	2011.6	2013.2	2015.0	2012.1	2012.7	2011.5
7.5°	2057.2	2056.7	2056.2	2057.2	2057.2	2056.7	2057.2	2055.6	2054.4	2056.1	2057.8
10°	2115.4	2114.8	2116.0	2116.0	2118.3	2117.1	2116.6	2118.2	2117.1	2116.0	2116.6
12.5°	2183.8	2182.0	2184.9	2184.9	2186.6	2186.6	2186.0	2186.6	2186.0	2184.3	2183.2
15°	2244.8	2242.5	2243.0	2247.6	2247.0	2248.2	2248.1	2247.0	2246.4	2245.9	2246.4
17.5°	2281.4	2280.3	2280.4	2282.6	2284.2	2283.8	2283.7	2283.8	2283.2	2283.7	2284.8
20°	2288.2	2288.2	2288.8	2291.0	2293.9	2292.2	2292.2	2293.3	2292.2	2293.3	2293.9
22.5°	2275.2	2276.4	2277.5	2280.3	2280.9	2280.9	2280.9	2281.4	2282.6	2282.6	2283.7
25°	2257.1	2258.4	2260.0	2262.2	2264.5	2264.5	2264.5	2265.6	2265.6	2266.2	2266.8
27.5°	2243.6	2244.8	2246.4	2248.7	2251.5	2251.6	2251.5	2252.6	2252.6	2253.2	2254.4
30°	2245.3	2243.1	2244.8	2245.9	2247.6	2247.6	2247.0	2247.6	2248.2	2248.1	2248.7
32.5°	2269.6	2264.6	2262.8	2262.3	2262.8	2261.1	2260.6	2259.4	2258.3	2258.3	2257.7
35°	2334.0	2326.1	2325.5	2321.0	2316.4	2312.0	2312.5	2309.1	2310.2	2307.4	2305.2
37.5°	2466.1	2457.1	2462.8	2453.2	2447.0	2442.4	2437.3	2430.5	2426.6	2431.6	2431.7
40°	2702.7	2696.6	2694.9	2696.5	2690.9	2693.7	2681.3	2677.9	2670.6	2675.6	2682.4
42.5°	3029.7	3025.8	3047.2	3051.2	3053.4	3056.8	3059.0	3040.4	3039.9	3035.9	3024.6
45°	3433.4	3457.2	3456.0	3482.0	3483.2	3475.2	3478.6	3470.2	3466.8	3454.4	3469.6
47.5°	3848.6	3893.8	3910.6	3916.3	3937.8	3942.8	3922.5	3915.8	3927.6	3907.3	3910.1
50°	4294.1	4342.7	4382.2	4408.8	4424.0	4425.1	4409.9	4406.5	4417.2	4378.8	4396.9
52.5°	4732.3	4805.8	4880.2	4919.8	4948.0	4950.4	4962.2	4948.0	4953.7	4944.6	4962.7
55°	5164.3	5291.4	5378.9	5456.3	5505.4	5547.8	5551.8	5567.0	5568.2	5586.8	5568.1
57.5°	5586.8	5725.1	5877.6	6014.8	6091.0	6139.0	6184.2	6245.8	6259.3	6252.0	6263.8
60°	6085.4	6299.4	6506.7	6664.8	6796.4	6922.3	6990.1	7086.6	7101.8	7143.6	7107.5
62.5°	6715.6	7026.2	7307.4	7520.4	7720.2	7916.2	8064.2	8138.8	8183.9	8271.4	8242.6
65°	7682.4	8055.2	8427.3	8732.2	9012.3	9245.6	9470.3	9577.6	9696.2	9820.4	9843.0
67.5°	8478.6	8940.0	9359.6	9731.2	10070.6	10329.8	10563.6	10749.3	10894.0	10985.4	10992.8
69°	8514.8	8994.2	9450.0	9848.7	10202.8	10478.3	10724.6	10931.2	11071.8	11165.6	11190.4
70°	8342.0	8832.8	9318.4	9721.0	10083.6	10365.3	10626.2	10823.3	10980.4	11075.8	11109.1
72.5°	7370.1	7894.2	8413.2	8766.1	9136.6	9472.0	9681.0	9882.0	10103.4	10132.2	10223.6
75°	5809.8	6250.3	6652.9	6922.9	7232.4	7533.4	7738.3	7791.4	7907.2	8052.8	8000.9
77.5°	3366.8	3502.4	3762.2	3828.8	3772.3	3903.4	3946.8	3854.2	3849.6	3935.0	3765.5
80°	746.0	703.6	756.7	717.2	718.4	719.4	707.6	703.0	711.5	703.1	691.2
82.5°	206.7	199.9	201.0	198.8	202.8	199.9	198.2	202.8	202.2	201.6	205.6
85°	99.4	98.3	96.6	96.0	93.8	90.9	86.4	86.4	88.6	85.3	87.0
87.5°	13.0	12.4	12.4	14.7	13.0	10.8	10.8	10.8	10.2	10.2	10.2
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)