

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: P151346

Luminaire Tested: **TMU-F02-LED-E-U-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P151346
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-F02-LED-E-U-SL3-7050
Description: TALON MEDIUM LED AREA LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5143.7 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

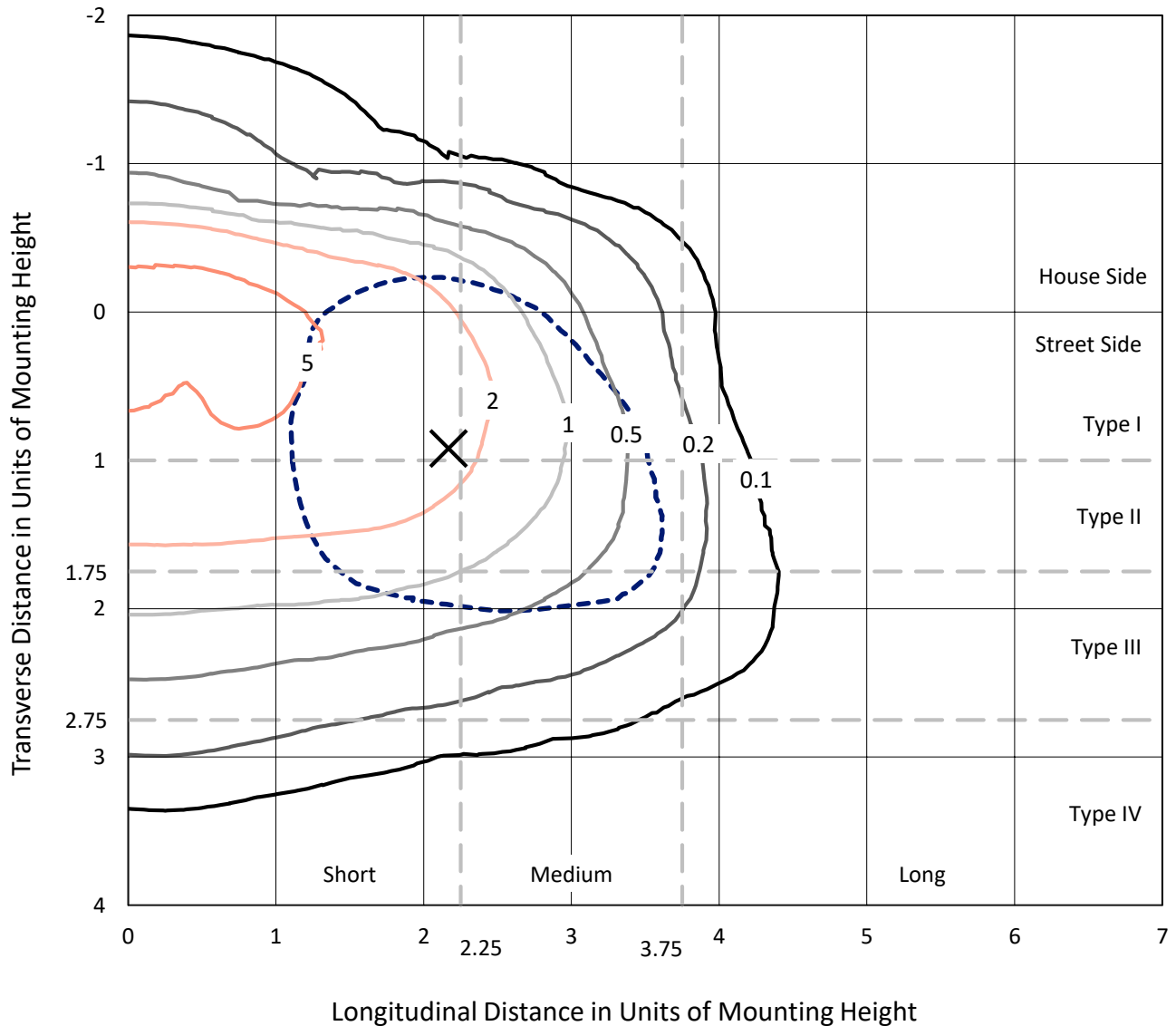
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

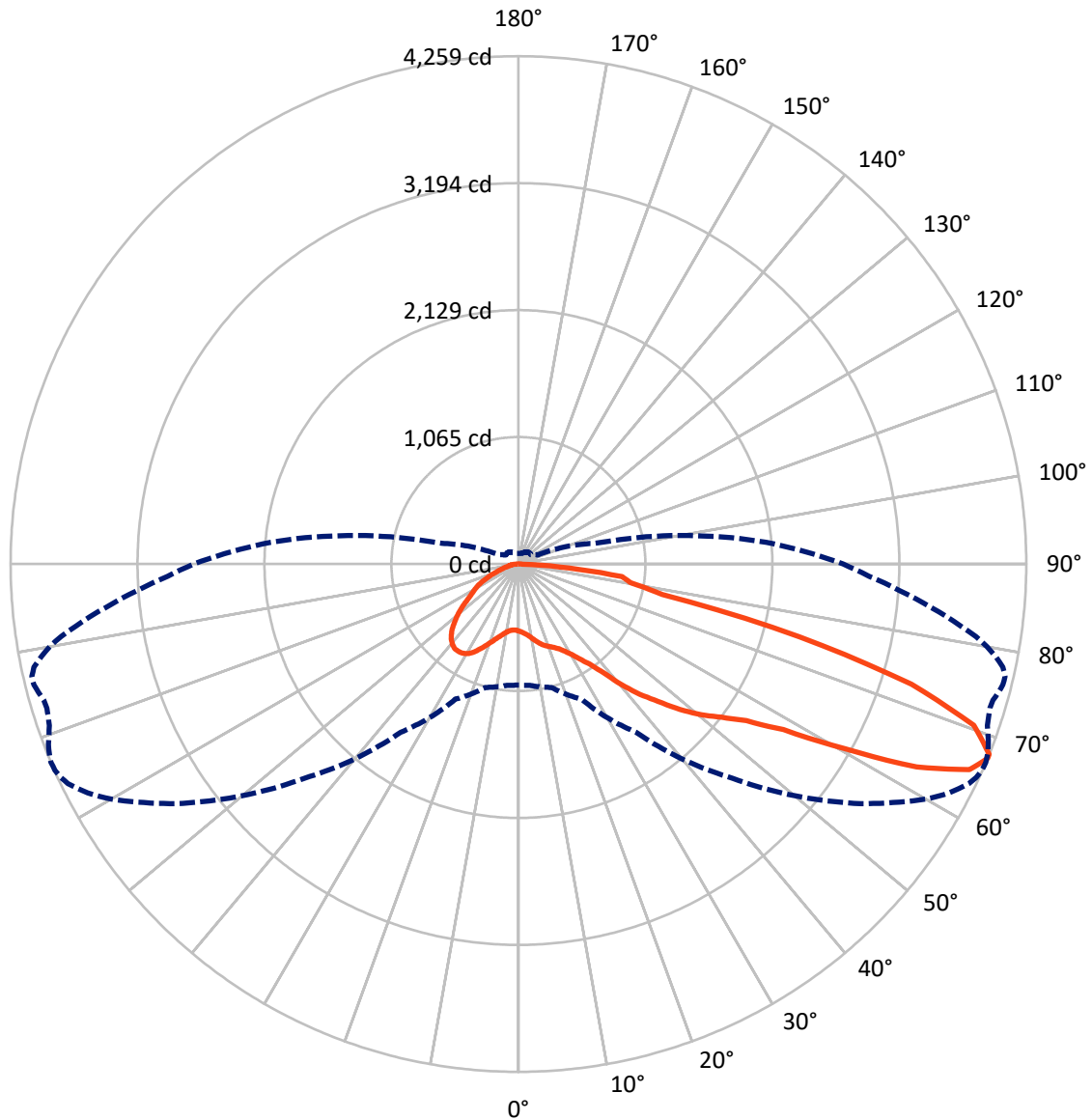


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1187.0	0.0	1187.0
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	3956.7	0.0	3956.7
	% Fixture	76.9	0.0	76.9
Total	Lumens	5143.7	0.0	5143.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	1.1
10°-20°	191.8	3.7
20°-30°	338.7	6.6
30°-40°	486.2	9.5
40°-50°	738.4	14.4
50°-60°	1087.2	21.1
60°-70°	1444.8	28.1
70°-80°	706.8	13.7
80°-90°	93.9	1.8
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°	5143.7	100.0
0°-180°	5143.7	100.0



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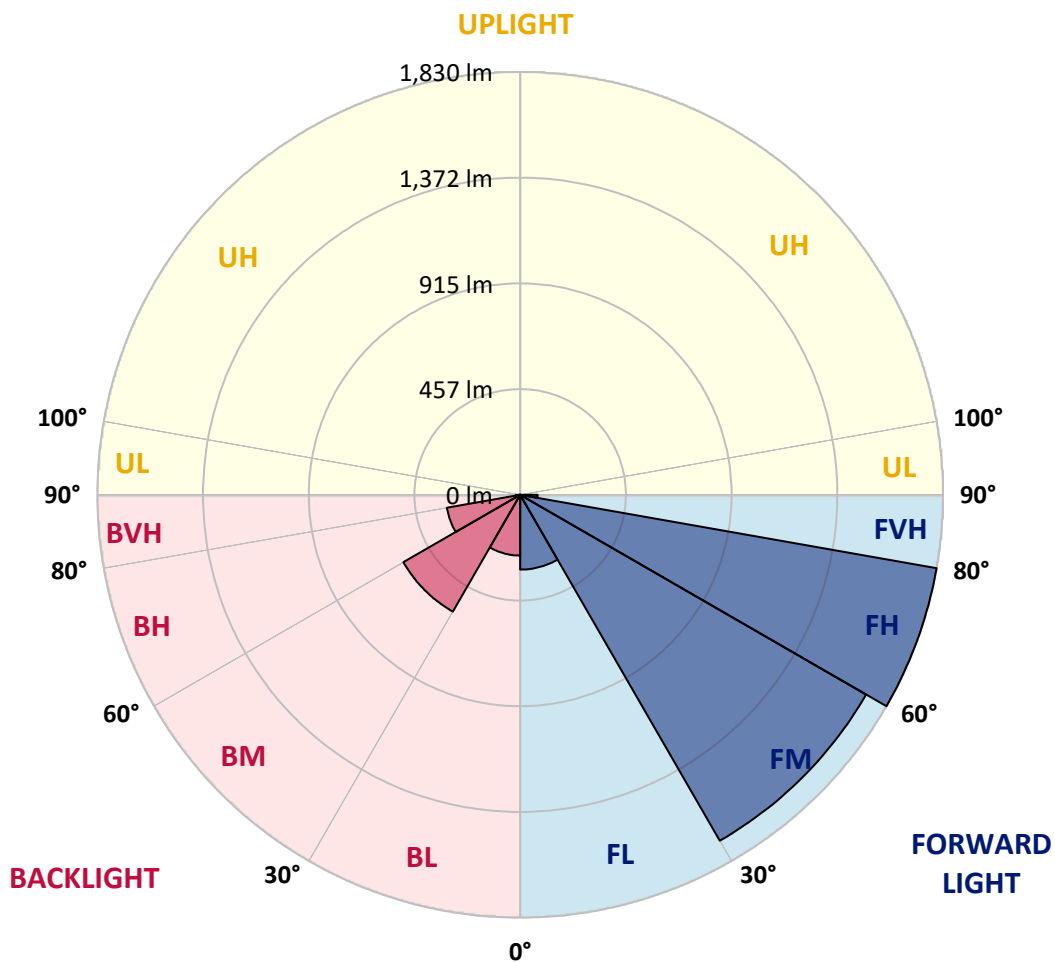
CATALOG NUMBER: TMU-F02-LED-E-U-SL3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	323.6	6.3			
FM	(30°-60°)	1728.2	33.6			
FH	(60°-80°)	1829.6	35.6			G2/5000
FVH	(80°-90°)	75.4	1.5			G1/100
BL	(0°-30°)	262.9	5.1	B1/500		
BM	(30°-60°)	583.6	11.3	B1/1000		
BH	(60°-80°)	322.1	6.3	B1/500		G1/500
BVH	(80°-90°)	18.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9
2.5°	588.4	589.0	587.9	587.3	583.9	580.5	578.3	575.4	575.4	575.4	574.3
5°	621.8	619.5	621.2	617.2	610.5	604.2	598.0	593.0	591.8	591.8	589.6
7.5°	661.8	659.0	657.9	652.2	642.1	633.0	620.6	615.5	612.7	611.6	610.5
10°	710.4	710.4	703.1	693.5	679.9	664.1	650.6	641.5	641.0	641.0	635.9
12.5°	760.1	761.2	751.6	742.0	720.0	699.1	683.3	673.1	672.6	670.3	667.5
15°	805.9	803.0	796.8	782.7	758.4	733.6	713.8	703.6	701.4	699.1	697.4
17.5°	843.7	840.9	833.0	814.9	789.5	760.1	735.8	725.1	724.0	722.8	720.6
20°	867.4	865.1	853.9	833.0	806.4	776.5	750.5	743.2	740.9	740.9	739.8
22.5°	881.0	877.6	861.2	833.5	807.5	785.5	764.1	759.5	757.9	758.4	758.4
25°	887.7	884.9	861.8	822.2	797.4	791.2	782.1	779.3	779.9	780.4	781.6
27.5°	888.9	884.9	857.8	807.5	784.4	801.9	808.1	812.6	812.6	814.9	818.8
30°	880.4	875.9	849.9	796.3	778.7	823.4	848.2	860.1	864.6	863.5	872.5
32.5°	865.7	862.9	842.0	796.3	794.6	865.7	909.8	926.7	929.0	930.1	940.3
35°	860.6	860.1	851.0	823.4	843.7	940.3	1007.5	1020.4	1023.3	1023.3	1030.6
37.5°	859.5	862.3	872.5	874.2	930.1	1050.9	1139.0	1158.8	1158.8	1164.4	1164.4
40°	859.5	865.7	904.1	949.9	1035.7	1194.9	1316.9	1339.5	1339.5	1345.7	1342.3
42.5°	892.8	901.9	965.1	1052.1	1169.0	1343.5	1483.5	1508.9	1510.6	1508.9	1514.0
45°	958.3	966.2	1043.0	1167.8	1306.2	1502.7	1642.8	1673.3	1667.0	1671.0	1672.7
47.5°	1045.3	1057.7	1145.2	1294.3	1440.0	1650.1	1821.2	1848.9	1846.6	1848.3	1841.0
50°	1137.9	1150.9	1248.6	1419.7	1573.3	1768.7	1964.7	2005.9	2001.9	2004.7	2008.7
52.5°	1219.8	1227.7	1322.0	1514.0	1674.4	1879.4	2074.8	2126.2	2135.2	2136.3	2139.1
55°	1268.4	1278.0	1364.4	1560.9	1747.8	1987.8	2200.7	2278.6	2296.1	2300.7	2313.1
57.5°	1285.3	1295.5	1374.0	1567.7	1787.9	2089.5	2376.3	2513.6	2528.2	2552.5	2592.1
60°	1284.7	1295.5	1363.8	1552.4	1828.6	2215.4	2649.7	2879.5	2954.0	2978.9	3035.4
62.5°	1232.2	1244.6	1314.1	1506.1	1880.5	2376.3	3056.2	3409.8	3505.8	3550.9	3611.9
65°	1117.0	1126.0	1191.0	1388.6	1865.8	2535.0	3396.2	3837.3	3924.8	3990.9	4099.8
67°	1014.8	1020.4	1071.3	1249.7	1722.4	2540.7	3503.5	3943.4	4019.7	4089.7	4202.1
67.5°	988.8	1000.7	1040.2	1207.4	1668.7	2508.5	3496.2	3927.0	4005.0	4077.8	4196.4
70°	804.7	821.7	841.4	953.8	1311.8	2110.3	3237.0	3643.6	3711.9	3779.7	3945.1
72.5°	496.4	526.9	530.8	602.0	853.9	1458.7	2619.2	3072.6	3124.0	3172.6	3342.0
75°	292.5	297.0	311.2	368.8	500.9	871.9	1757.4	2282.6	2330.0	2353.7	2486.4
77.5°	163.2	167.7	179.6	229.3	385.1	587.3	1023.3	1341.2	1370.0	1399.9	1378.5
80°	67.8	74.0	79.6	92.6	180.1	463.6	703.6	852.7	871.4	888.9	910.9
82.5°	32.8	35.0	42.9	49.1	65.5	190.3	551.7	739.2	761.2	786.7	838.0
85°	15.2	16.9	23.7	28.2	31.6	48.0	184.7	359.7	390.2	395.9	406.0
87.5°	1.1	1.1	2.8	4.0	5.6	6.2	19.2	27.1	30.5	27.7	35.0
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9
2.5°	573.8	573.2	572.1	572.1	571.5	571.5	571.5	570.4	570.4	570.4	569.8
5°	589.0	588.4	586.7	586.7	585.6	585.6	583.9	583.4	582.2	582.2	581.7
7.5°	608.8	608.2	605.9	605.9	604.2	603.7	602.6	600.9	600.9	599.7	598.6
10°	635.9	634.2	633.6	630.8	631.4	630.2	629.1	627.4	626.3	625.1	624.0
12.5°	666.4	666.4	663.5	661.8	663.0	661.8	659.6	659.0	657.3	657.3	655.6
15°	695.2	695.2	694.0	691.8	692.3	690.6	690.1	689.0	686.7	687.3	686.7
17.5°	720.0	720.0	718.3	717.2	717.2	715.5	716.1	714.9	713.8	713.2	711.5
20°	739.8	739.8	738.6	737.5	738.1	738.1	736.4	736.4	736.4	735.3	735.3
22.5°	759.0	759.5	759.5	759.5	760.1	760.7	760.1	761.2	760.7	761.8	761.8
25°	784.4	786.1	787.2	787.2	790.0	790.6	791.2	792.9	792.9	794.6	795.1
27.5°	822.2	823.4	827.9	829.0	829.6	834.1	834.7	836.9	839.2	839.7	840.3
30°	874.2	877.0	880.4	882.7	882.7	888.3	890.6	889.4	895.6	897.3	899.6
32.5°	943.6	945.9	949.3	951.5	953.8	956.6	957.2	960.0	965.1	969.6	966.8
35°	1031.2	1036.8	1031.2	1037.4	1039.1	1043.0	1041.9	1045.3	1047.6	1049.2	1048.7
37.5°	1158.2	1155.4	1154.3	1152.0	1148.1	1161.6	1154.8	1154.3	1150.9	1160.5	1154.3
40°	1325.4	1327.1	1328.8	1319.7	1314.7	1314.7	1313.0	1306.8	1303.9	1312.4	1311.3
42.5°	1499.9	1501.6	1493.7	1488.0	1475.0	1473.3	1465.4	1463.7	1460.9	1465.4	1460.9
45°	1658.6	1659.7	1642.2	1645.0	1634.9	1636.6	1624.1	1629.2	1622.4	1626.9	1635.4
47.5°	1835.9	1838.2	1822.9	1829.1	1819.0	1812.7	1812.2	1815.6	1808.2	1812.7	1815.0
50°	1996.8	1994.0	1986.1	1987.8	1983.3	1984.4	1977.6	1983.9	1975.4	1984.4	1983.3
52.5°	2139.7	2136.3	2134.6	2140.3	2136.3	2136.3	2132.4	2135.2	2136.3	2149.9	2152.7
55°	2313.1	2315.9	2318.7	2328.9	2333.4	2326.1	2333.4	2347.5	2348.1	2380.3	2397.8
57.5°	2591.5	2611.3	2621.4	2627.6	2654.2	2651.3	2668.3	2702.2	2705.6	2780.1	2823.6
60°	3077.1	3112.2	3145.5	3127.4	3181.1	3197.4	3207.6	3270.8	3290.6	3361.2	3399.0
62.5°	3690.4	3694.4	3746.3	3730.0	3760.5	3753.1	3765.5	3794.3	3820.3	3878.5	3914.1
65°	4118.5	4137.1	4157.4	4136.6	4136.0	4111.1	4095.3	4094.8	4110.6	4123.0	4162.5
67°	4234.8	4253.4	4258.5	4243.3	4221.3	4189.6	4160.3	4145.0	4134.9	4140.5	4165.4
67.5°	4233.7	4251.2	4257.4	4242.7	4212.2	4185.7	4154.6	4137.1	4123.6	4126.4	4147.3
70°	3993.1	4031.0	4051.3	4055.8	4051.8	4005.5	3979.0	3963.2	3951.9	3924.2	3922.5
72.5°	3383.2	3429.0	3444.8	3470.2	3481.5	3413.2	3384.3	3401.9	3362.3	3274.8	3278.7
75°	2484.2	2487.6	2434.5	2424.3	2386.5	2231.8	2185.5	2143.1	2075.3	1969.7	1870.3
77.5°	1294.9	1294.3	1233.3	1202.3	1157.1	1063.9	1059.4	983.7	930.7	834.1	799.1
80°	919.9	934.6	954.9	965.1	949.3	913.1	863.5	809.8	748.3	687.8	615.5
82.5°	855.5	864.6	875.3	835.8	813.8	762.9	725.1	647.2	603.7	534.8	461.9
85°	416.2	443.9	422.4	397.6	389.1	304.4	294.2	245.7	223.1	183.5	171.1
87.5°	26.5	32.8	29.4	26.5	23.2	13.0	17.5	12.4	13.0	9.6	8.5
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9
2.5°	569.8	569.2	568.7	568.1	567.5	567.5	567.0	566.4	565.8	564.7	564.7
5°	580.5	580.5	580.0	578.8	578.8	577.7	576.0	575.4	575.4	574.3	573.2
7.5°	598.0	597.5	596.3	595.8	594.6	593.5	592.4	591.3	590.7	589.0	588.4
10°	624.6	623.4	620.6	619.5	618.9	617.8	616.7	615.5	613.8	612.7	612.2
12.5°	654.5	653.9	651.7	652.8	650.0	648.9	647.7	644.9	646.0	643.8	642.6
15°	684.4	685.0	683.9	683.9	681.6	679.9	678.8	676.5	676.0	674.8	673.7
17.5°	711.0	712.1	710.4	709.3	708.2	707.0	704.8	702.5	702.5	700.2	699.1
20°	735.3	736.4	735.8	734.7	733.0	732.4	731.3	729.6	729.6	728.5	726.8
22.5°	762.9	763.5	763.5	762.9	761.2	761.8	760.7	759.0	759.5	757.3	757.3
25°	796.3	797.4	798.5	799.1	797.9	798.5	797.4	796.3	795.7	796.3	795.7
27.5°	842.0	843.1	846.5	843.7	846.5	847.1	845.4	843.1	844.8	847.6	845.9
30°	902.4	901.3	905.8	906.4	905.8	906.4	905.2	903.5	904.7	909.8	906.9
32.5°	970.2	972.4	973.6	974.7	976.4	978.7	977.0	975.3	978.1	976.4	980.3
35°	1052.1	1057.2	1058.8	1057.2	1058.3	1062.2	1061.7	1062.2	1067.9	1062.2	1069.6
37.5°	1155.4	1160.5	1164.4	1162.2	1165.0	1165.0	1169.5	1182.0	1174.0	1184.2	1192.1
40°	1305.6	1313.5	1314.1	1313.5	1316.4	1319.7	1324.3	1337.8	1328.8	1339.5	1346.9
42.5°	1460.4	1470.0	1473.3	1467.7	1473.9	1481.3	1481.8	1493.7	1494.2	1495.9	1499.9
45°	1634.9	1643.3	1650.1	1647.3	1647.8	1657.4	1655.2	1666.5	1658.0	1658.0	1660.3
47.5°	1820.6	1828.6	1833.1	1837.6	1831.9	1840.4	1844.4	1842.1	1831.9	1829.7	1816.1
50°	1990.1	1996.8	2003.6	2016.0	2015.5	2019.4	2022.3	2012.1	2009.8	1997.4	1982.2
52.5°	2169.6	2187.1	2202.4	2228.4	2232.3	2245.9	2240.8	2223.9	2221.0	2200.7	2180.4
55°	2419.8	2470.1	2492.1	2532.2	2559.3	2558.7	2547.4	2544.6	2523.2	2482.5	2458.2
57.5°	2855.2	2933.7	2971.5	3023.5	3032.0	3026.9	3012.2	2986.2	2949.0	2880.6	2836.6
60°	3483.7	3532.3	3576.4	3588.8	3595.0	3585.4	3534.0	3476.4	3403.5	3309.2	3230.7
62.5°	3958.7	4008.4	4041.1	4036.0	3997.1	3947.9	3872.8	3776.3	3674.0	3568.4	3451.0
65°	4200.4	4221.3	4216.2	4176.6	4110.0	4024.2	3914.6	3795.5	3675.2	3550.4	3428.4
67°	4187.4	4187.9	4153.5	4076.7	3991.4	3883.6	3749.7	3619.8	3478.7	3347.6	3202.5
67.5°	4164.2	4162.0	4114.0	4029.8	3937.8	3826.5	3687.6	3553.2	3406.9	3274.8	3124.6
70°	3902.2	3870.6	3762.1	3627.7	3499.6	3349.3	3203.6	3049.5	2884.6	2771.1	2598.3
72.5°	3206.5	3099.7	2912.8	2772.2	2635.0	2438.4	2347.5	2156.1	2040.3	1968.0	1837.6
75°	1856.8	1767.6	1623.0	1491.4	1424.8	1308.4	1253.1	1112.5	1083.1	1082.0	1036.8
77.5°	708.7	618.4	525.2	423.0	359.7	285.7	251.9	225.3	205.0	219.1	198.8
80°	531.4	437.1	341.7	248.5	177.3	131.0	112.4	103.9	98.8	94.9	92.0
82.5°	395.9	312.3	242.3	158.1	110.7	83.6	72.3	67.8	65.5	61.6	58.2
85°	133.8	107.3	84.7	58.7	46.3	37.8	35.0	33.9	32.2	29.4	27.7
87.5°	7.3	6.8	7.3	5.6	6.8	5.6	6.2	6.2	6.2	5.6	5.6
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9
2.5°	564.2	564.2	564.2	563.0	561.3	557.9	554.6	551.7	548.9	547.2	546.1
5°	572.6	571.5	570.9	570.4	566.4	559.6	553.4	547.8	542.1	537.6	535.9
7.5°	587.9	585.6	585.0	583.4	578.3	568.1	559.1	550.0	542.1	535.9	533.1
10°	611.0	611.0	607.6	605.4	599.7	586.2	573.2	561.3	550.6	543.8	542.1
12.5°	640.4	640.4	637.6	635.9	629.1	611.6	595.8	581.7	571.5	564.7	564.2
15°	670.9	670.3	668.1	665.8	658.5	639.8	624.0	611.6	603.1	595.2	593.0
17.5°	698.0	698.0	695.2	692.9	685.6	669.8	655.6	646.6	637.0	620.6	608.2
20°	725.1	725.7	723.4	721.1	714.9	701.4	695.2	686.1	664.7	629.1	599.7
22.5°	755.0	757.3	754.5	752.2	747.1	741.5	739.2	717.8	672.6	615.5	572.6
25°	793.4	797.4	794.0	792.9	790.0	791.7	785.0	735.3	661.3	586.2	532.5
27.5°	845.9	845.9	846.5	846.5	845.4	851.6	826.7	735.8	636.4	548.3	484.5
30°	907.5	910.9	909.8	909.8	914.3	918.2	849.9	723.4	604.8	501.5	425.8
32.5°	981.5	984.3	985.4	980.3	998.4	978.1	858.4	700.8	565.8	443.3	355.8
35°	1070.7	1074.7	1077.5	1078.0	1089.9	1030.0	853.9	667.5	509.9	370.5	279.0
37.5°	1187.0	1194.9	1201.2	1204.0	1204.5	1074.1	841.4	623.4	437.1	289.1	207.8
40°	1341.8	1350.2	1348.5	1354.2	1322.0	1100.1	813.2	559.6	346.7	212.3	160.4
42.5°	1490.9	1492.0	1494.2	1489.2	1423.7	1113.6	773.7	481.7	259.8	158.7	137.2
45°	1657.4	1647.8	1637.1	1629.2	1517.4	1118.7	719.4	386.8	183.5	133.3	127.1
47.5°	1813.9	1800.9	1778.9	1756.3	1601.0	1110.8	650.0	289.7	139.5	122.0	120.3
50°	1967.5	1943.2	1912.1	1886.2	1681.2	1098.9	573.2	208.9	122.0	116.3	114.6
52.5°	2157.8	2117.1	2076.5	2042.6	1785.6	1080.3	492.4	158.7	114.6	111.8	109.6
55°	2418.7	2362.2	2296.7	2249.3	1927.4	1052.1	407.7	134.4	111.2	109.0	105.6
57.5°	2780.1	2695.4	2621.4	2544.1	2121.1	1023.3	334.9	124.8	110.7	107.3	102.8
60°	3149.4	3047.8	2953.5	2842.8	2318.7	994.5	284.1	123.7	112.4	107.3	100.5
62.5°	3341.4	3236.4	3122.9	3010.5	2404.0	926.7	249.0	125.4	116.3	109.0	100.5
65°	3297.4	3169.2	3054.0	2939.4	2305.2	798.5	210.6	127.6	124.2	115.8	102.2
67°	3076.0	2942.2	2831.5	2721.9	2084.9	668.6	180.7	129.9	132.7	123.7	105.6
67.5°	2998.1	2864.2	2755.3	2648.5	2020.0	641.5	173.4	131.0	134.4	125.9	106.7
70°	2485.9	2387.6	2271.9	2189.4	1635.4	474.9	142.3	133.3	144.6	138.9	111.8
72.5°	1789.0	1695.3	1608.3	1562.6	1204.5	332.1	119.7	131.0	150.8	146.3	114.1
75°	951.0	945.3	913.7	936.3	745.4	216.9	105.6	122.5	144.0	133.8	106.2
77.5°	192.0	197.7	232.1	228.7	240.6	120.8	90.4	105.0	111.2	98.3	86.4
80°	89.2	87.5	85.8	87.0	85.3	77.4	73.4	82.4	77.4	63.2	57.6
82.5°	55.3	54.2	52.5	52.0	57.6	61.6	64.4	64.9	51.4	44.0	42.4
85°	26.5	26.5	26.0	27.1	33.9	50.3	54.2	48.0	34.4	31.6	29.9
87.5°	5.1	5.1	5.6	5.1	6.8	11.9	13.6	15.8	13.0	13.6	15.2
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):

	165°	175°	180°
0°	561.9	561.9	561.9
2.5°	545.0	543.8	543.8
5°	533.7	533.1	533.1
7.5°	530.8	531.4	530.8
10°	541.6	541.0	543.3
12.5°	565.3	567.0	566.4
15°	590.1	591.3	591.3
17.5°	597.5	593.5	593.0
20°	578.3	570.9	569.2
22.5°	542.1	528.6	529.1
25°	496.4	480.0	481.1
27.5°	443.3	425.8	425.2
30°	379.5	360.3	350.7
32.5°	302.7	279.5	279.5
35°	227.6	208.9	202.2
37.5°	172.8	162.1	158.7
40°	144.0	138.9	137.8
42.5°	131.0	129.3	128.8
45°	124.2	123.1	122.5
47.5°	118.0	117.5	116.9
50°	113.5	112.9	112.4
52.5°	109.6	108.4	107.9
55°	103.9	103.9	103.9
57.5°	100.5	100.5	100.0
60°	97.1	96.6	96.6
62.5°	94.3	93.2	93.7
65°	92.6	90.9	90.9
67°	91.5	88.1	88.1
67.5°	91.5	87.0	87.0
70°	89.8	82.4	81.3
72.5°	88.1	77.4	75.7
75°	83.6	73.4	71.7
77.5°	71.7	65.5	64.4
80°	55.3	48.0	49.1
82.5°	40.1	34.4	33.9
85°	28.8	24.8	24.8
87.5°	15.2	13.0	13.6
90°	0.0	0.0	0.0

(END OF REPORT)