

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: P154676

Luminaire Tested: **TMU-F03-LED-E-U-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P154676
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-F03-LED-E-U-T2-7050
Description: TALON MEDIUM LED AREA LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7785.9 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

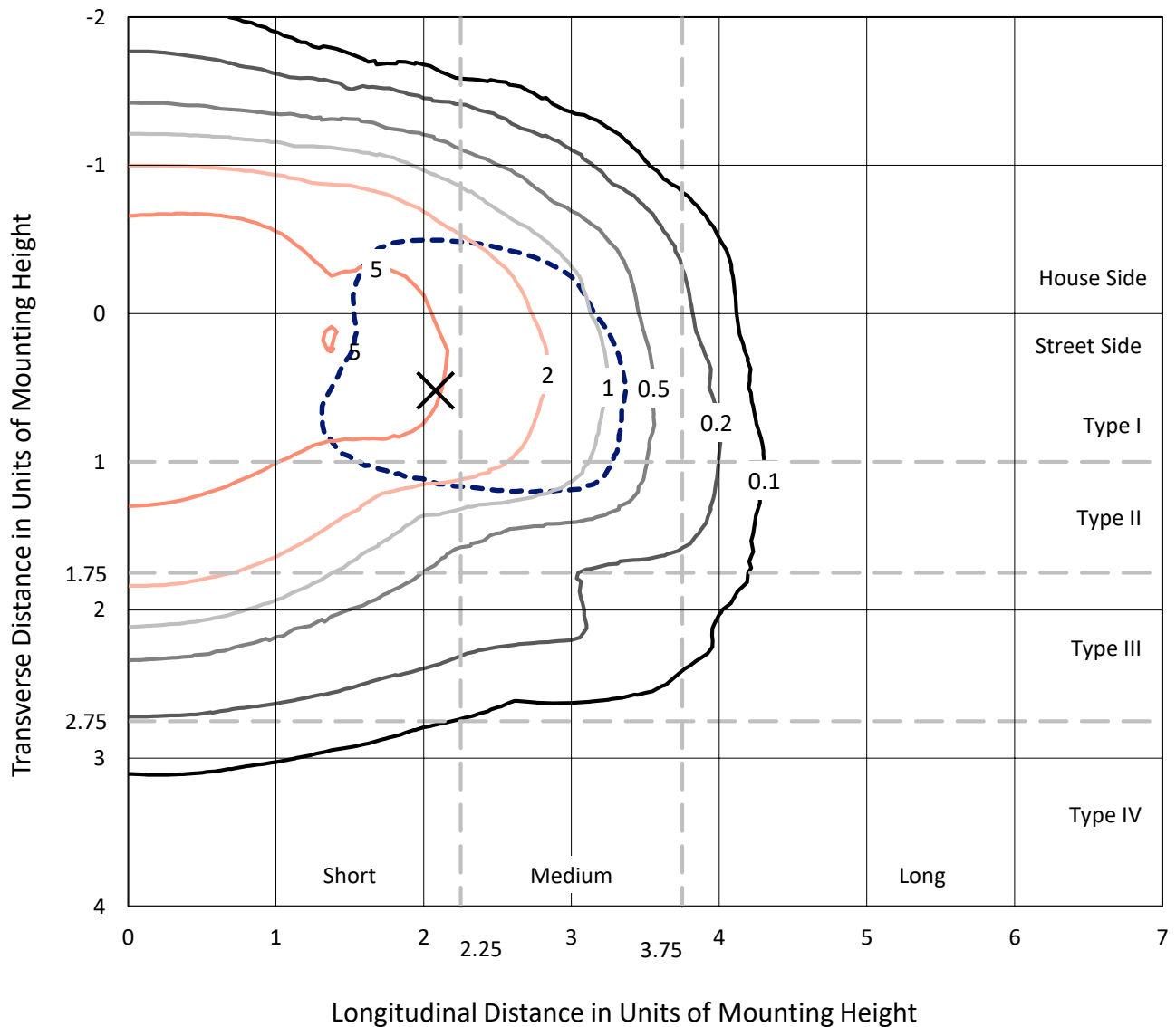
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

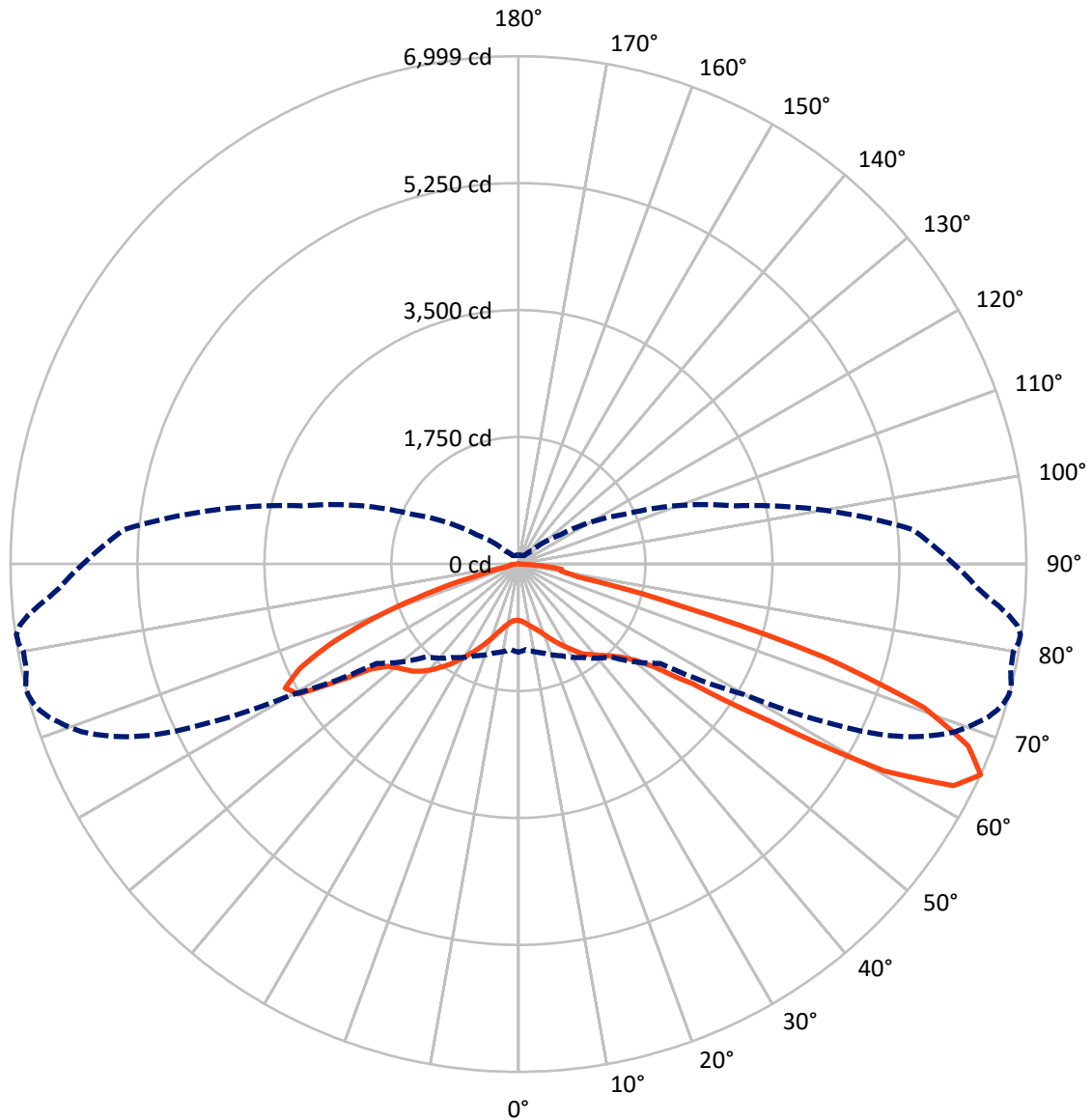
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2726.4	0.0	2726.4
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	5059.5	0.0	5059.5
	% Fixture	65.0	0.0	65.0
Total	Lumens	7785.9	0.0	7785.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	1.0
10°-20°	267.8	3.4
20°-30°	526.0	6.8
30°-40°	874.0	11.2
40°-50°	1284.3	16.5
50°-60°	1778.1	22.8
60°-70°	2122.3	27.3
70°-80°	750.6	9.6
80°-90°	104.9	1.3
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°	7785.9	100.0
0°-180°	7785.9	100.0

Coefficient of Utilization



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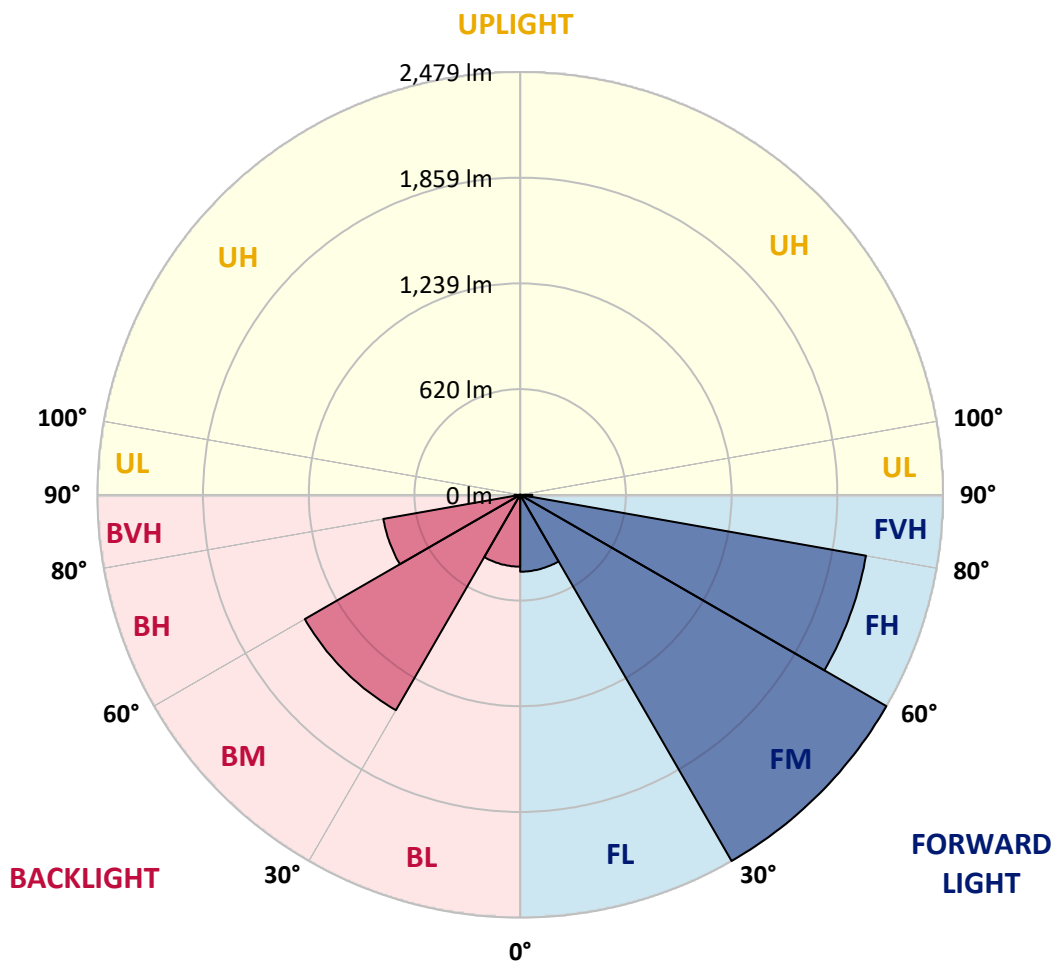
CATALOG NUMBER: TMU-F03-LED-E-U-T2-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.5	5.8			
FM (30°-60°)	2478.8	31.8			
FH (60°-80°)	2058.5	26.4			G2/5000
FVH (80°-90°)	71.7	0.9			G1/100
BL (0°-30°)	421.2	5.4	B1/500		
BM (30°-60°)	1457.6	18.7	B2/2500		
BH (60°-80°)	814.4	10.5	B2/1000		G2/1000
BVH (80°-90°)	33.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5
2.5°	812.3	813.2	811.5	810.7	808.1	803.9	800.5	797.1	797.1	797.1	794.6
5°	847.9	849.6	846.2	843.7	836.1	831.8	825.9	821.7	820.0	819.1	816.6
7.5°	892.8	890.3	885.2	883.5	877.6	868.3	857.2	848.8	848.8	847.9	848.8
10°	937.7	930.9	928.4	925.9	916.5	904.7	892.0	882.7	881.8	881.0	878.4
12.5°	982.6	980.1	977.5	968.2	958.9	940.3	925.9	916.5	915.7	916.5	913.1
15°	1041.9	1036.0	1033.4	1017.3	997.0	976.7	958.9	950.4	947.9	948.7	946.2
17.5°	1087.6	1087.6	1081.7	1063.9	1037.7	1009.7	991.1	986.0	985.1	985.1	986.0
20°	1124.1	1123.2	1117.3	1102.9	1071.6	1043.6	1034.3	1032.6	1031.7	1031.7	1034.3
22.5°	1144.4	1142.7	1140.2	1124.1	1099.5	1080.9	1081.7	1086.8	1088.5	1090.2	1093.6
25°	1154.6	1152.0	1151.2	1140.2	1122.4	1119.8	1135.1	1148.6	1152.0	1155.4	1159.6
27.5°	1171.5	1167.3	1169.0	1164.7	1160.5	1168.1	1199.5	1213.9	1216.4	1220.6	1223.2
30°	1218.1	1216.4	1223.2	1224.9	1228.3	1239.3	1268.1	1281.6	1287.6	1287.6	1299.4
32.5°	1307.0	1307.9	1309.6	1327.4	1333.3	1340.9	1356.2	1367.2	1368.0	1368.9	1379.9
35°	1426.5	1431.6	1446.0	1461.2	1475.6	1474.8	1465.4	1471.4	1467.1	1472.2	1473.1
37.5°	1577.3	1570.5	1591.7	1626.4	1648.4	1642.5	1601.0	1573.9	1581.5	1578.1	1575.6
40°	1693.3	1700.9	1741.6	1787.3	1804.3	1822.9	1768.7	1722.1	1715.3	1702.6	1695.0
42.5°	1853.4	1854.2	1887.3	1921.2	1970.3	2011.0	1976.2	1909.3	1889.0	1873.7	1840.7
45°	2001.6	1999.1	2026.2	2067.7	2126.2	2184.6	2197.3	2124.5	2116.8	2089.7	2046.5
47.5°	2100.7	2097.4	2116.0	2170.2	2265.1	2360.8	2413.3	2391.3	2376.9	2365.9	2298.1
50°	2167.7	2160.9	2182.1	2239.7	2345.6	2492.9	2630.2	2648.8	2642.9	2642.9	2599.7
52.5°	2217.6	2217.6	2232.9	2279.5	2387.1	2570.9	2816.5	2910.6	2918.2	2926.6	2924.1
55°	2189.7	2193.9	2232.0	2299.8	2413.3	2625.1	2970.7	3176.5	3218.9	3254.5	3295.1
57.5°	2094.0	2108.4	2159.2	2270.2	2420.1	2665.7	3141.8	3549.2	3668.7	3772.0	3933.0
60°	1954.2	1972.8	2046.5	2188.0	2370.1	2599.7	3201.9	3864.4	4054.1	4279.4	4699.6
62.5°	1714.5	1733.1	1805.1	1946.6	2102.4	2346.4	2952.9	3910.9	4214.2	4533.5	5168.9
65°	1214.7	1185.1	1268.1	1395.1	1573.9	1810.2	2386.2	3598.4	4034.6	4467.5	5251.9
67.5°	676.8	674.3	725.1	820.0	991.1	1245.2	1644.2	2759.8	3161.3	3651.7	4614.9
70°	466.7	471.8	504.0	606.5	748.0	967.4	1171.5	1733.1	2022.0	2354.9	3301.9
72.5°	327.8	338.8	356.6	417.6	562.5	814.9	1196.9	1036.0	1180.0	1407.0	1985.5
75°	192.3	199.9	212.6	242.3	320.2	544.7	1239.3	910.6	910.6	964.0	1201.2
77.5°	118.6	118.6	126.2	138.1	170.3	266.8	882.7	1023.3	994.5	964.0	966.5
80°	61.0	65.2	76.2	82.2	94.9	122.0	396.4	954.7	1047.0	1108.8	1065.6
82.5°	28.0	31.3	46.6	50.0	55.1	64.4	136.4	543.0	727.6	958.0	1196.9
85°	14.4	14.4	24.6	30.5	33.0	29.6	50.0	219.4	332.1	506.6	792.9
87.5°	2.5	2.5	4.2	5.1	7.6	6.8	8.5	12.7	21.2	22.9	23.7
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°	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5
2.5°	793.7	794.6	793.7	792.9	791.2	791.2	791.2	790.3	790.3	790.3	789.5
5°	816.6	813.2	814.0	812.3	811.5	810.7	811.5	809.8	808.1	809.0	808.1
7.5°	845.4	843.7	840.3	840.3	839.5	837.8	837.8	835.2	834.4	832.7	831.8
10°	877.6	873.3	875.0	873.3	874.2	870.8	869.1	867.4	865.7	865.7	866.6
12.5°	910.6	909.8	907.2	905.5	905.5	903.0	903.8	903.0	900.4	899.6	897.1
15°	944.5	944.5	941.9	942.8	941.9	940.3	938.6	938.6	936.9	935.2	936.0
17.5°	984.3	984.3	984.3	984.3	985.1	982.6	983.5	981.8	980.1	983.5	983.5
20°	1036.0	1039.4	1039.4	1038.5	1042.8	1040.2	1039.4	1043.6	1039.4	1045.3	1044.4
22.5°	1095.3	1098.7	1098.7	1102.0	1102.9	1105.4	1107.1	1105.4	1108.8	1112.2	1112.2
25°	1161.3	1164.7	1167.3	1172.4	1174.9	1173.2	1174.0	1178.3	1180.0	1183.4	1186.8
27.5°	1230.8	1231.6	1235.0	1241.0	1245.2	1246.9	1247.7	1254.5	1255.4	1257.1	1260.4
30°	1298.6	1307.0	1305.3	1313.0	1315.5	1318.0	1323.1	1325.7	1331.6	1335.0	1335.0
32.5°	1378.2	1376.5	1383.3	1389.2	1393.4	1397.7	1401.9	1405.3	1408.7	1410.4	1418.9
35°	1477.3	1480.7	1480.7	1481.5	1491.7	1492.5	1495.9	1503.6	1506.1	1511.2	1514.6
37.5°	1575.6	1569.6	1568.8	1568.8	1565.4	1567.9	1568.8	1569.6	1573.0	1573.9	1577.3
40°	1685.7	1678.1	1671.3	1667.0	1660.3	1651.0	1649.3	1645.0	1647.6	1646.7	1647.6
42.5°	1836.5	1815.3	1799.2	1787.3	1773.8	1763.6	1756.0	1745.0	1737.4	1728.0	1726.3
45°	2028.7	1988.9	1961.8	1942.3	1922.9	1894.9	1878.8	1861.9	1846.6	1831.4	1818.7
47.5°	2281.2	2238.8	2195.6	2160.0	2129.5	2084.7	2038.9	2013.5	1983.9	1957.6	1939.0
50°	2578.5	2527.7	2507.3	2457.4	2419.2	2351.5	2294.7	2253.2	2193.9	2154.1	2119.4
52.5°	2882.6	2869.9	2858.9	2816.5	2771.6	2732.7	2682.7	2609.8	2549.7	2504.0	2432.8
55°	3296.8	3302.7	3298.5	3275.6	3259.5	3222.3	3201.9	3138.4	3111.3	3045.2	2970.7
57.5°	3994.0	4041.4	4101.5	4125.3	4157.4	4127.0	4162.5	4205.7	4098.2	4135.4	4068.5
60°	4884.2	5101.9	5231.5	5390.8	5495.0	5640.7	5666.9	5705.1	5694.0	5715.2	5758.4
62.5°	5428.1	5686.4	5934.6	6115.0	6308.2	6414.9	6543.7	6633.4	6726.6	6789.3	6771.5
65°	5588.2	5854.1	6079.5	6276.8	6449.6	6580.1	6699.5	6812.2	6897.7	6957.9	6993.5
67.5°	5000.3	5347.6	5584.8	5816.0	6038.8	6176.0	6276.0	6385.3	6510.6	6614.8	6635.1
70°	3762.7	4283.7	4620.0	4896.9	5158.7	5343.4	5483.1	5584.8	5682.2	5756.7	5838.0
72.5°	2353.2	2808.9	3193.5	3552.6	3830.5	4084.6	4202.3	4427.7	4398.0	4454.8	4515.8
75°	1410.4	1632.3	1844.1	2097.4	2243.1	2454.8	2492.9	2530.2	2510.7	2447.2	2494.6
77.5°	980.1	1016.5	1014.8	1000.4	985.1	947.9	899.6	873.3	855.5	830.1	840.3
80°	986.0	907.2	786.9	661.6	546.4	470.1	439.6	439.6	471.0	515.9	560.8
82.5°	1178.3	1094.4	975.8	816.6	647.2	526.9	446.4	414.2	420.1	465.9	523.5
85°	794.6	813.2	713.2	652.2	516.7	402.4	337.1	273.6	242.3	249.9	282.9
87.5°	28.8	34.7	12.7	16.9	11.9	10.2	10.2	11.0	7.6	9.3	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°	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5
2.5°	788.6	787.8	787.8	786.1	786.1	785.2	785.2	784.4	783.5	783.5	782.7
5°	807.3	806.4	804.7	803.9	802.2	802.2	801.3	799.6	799.6	797.9	797.1
7.5°	833.5	831.8	830.1	829.3	828.4	825.9	825.9	824.2	824.2	822.5	821.7
10°	864.9	863.2	861.5	862.3	859.8	858.9	857.2	857.2	854.7	853.9	853.9
12.5°	898.7	897.9	897.9	895.4	894.5	893.7	890.3	890.3	890.3	888.6	889.4
15°	935.2	936.0	933.5	936.0	935.2	932.6	932.6	932.6	929.2	933.5	930.1
17.5°	984.3	986.8	985.1	986.0	984.3	984.3	985.1	984.3	986.0	986.0	991.1
20°	1045.3	1046.1	1050.4	1048.7	1048.7	1047.8	1049.5	1050.4	1053.8	1052.1	1055.5
22.5°	1112.2	1116.4	1117.3	1120.7	1120.7	1119.8	1121.5	1124.9	1126.6	1129.2	1128.3
25°	1188.4	1191.0	1194.4	1190.1	1196.9	1196.9	1198.6	1202.8	1203.7	1203.7	1209.6
27.5°	1259.6	1266.4	1267.2	1271.5	1268.9	1270.6	1276.5	1279.1	1282.5	1282.5	1284.2
30°	1340.1	1342.6	1344.3	1349.4	1348.5	1349.4	1350.2	1354.5	1354.5	1358.7	1362.9
32.5°	1423.1	1424.8	1426.5	1431.6	1433.3	1436.6	1434.9	1438.3	1442.6	1443.4	1446.0
35°	1522.2	1523.9	1525.6	1533.2	1534.1	1540.0	1541.7	1540.0	1546.8	1542.5	1546.8
37.5°	1579.8	1587.4	1589.1	1594.2	1592.5	1596.7	1599.3	1602.7	1604.4	1607.7	1614.5
40°	1650.1	1652.6	1657.7	1660.3	1663.7	1664.5	1667.9	1670.4	1673.0	1680.6	1688.2
42.5°	1722.1	1725.5	1728.0	1731.4	1735.7	1739.0	1741.6	1749.2	1750.9	1756.0	1770.4
45°	1809.4	1807.7	1808.5	1809.4	1811.0	1815.3	1822.9	1830.5	1835.6	1847.5	1859.3
47.5°	1917.8	1906.8	1902.5	1895.8	1897.4	1906.8	1908.5	1921.2	1931.3	1942.3	1956.7
50°	2082.1	2052.5	2034.7	2016.9	2015.2	2020.3	2027.1	2040.6	2052.5	2066.9	2087.2
52.5°	2358.3	2301.5	2265.9	2216.8	2203.2	2200.7	2195.6	2203.2	2206.6	2226.1	2264.2
55°	2917.3	2812.3	2744.5	2668.3	2597.1	2576.0	2535.3	2543.8	2535.3	2547.2	2603.9
57.5°	4084.6	4000.7	3934.7	3837.3	3715.3	3585.7	3553.5	3420.5	3446.8	3523.0	3473.9
60°	5779.6	5749.1	5701.7	5655.1	5488.2	5394.2	5240.9	5223.9	5116.3	5117.2	5046.9
62.5°	6728.3	6767.3	6738.5	6724.9	6715.6	6686.0	6609.7	6518.2	6381.0	6281.9	6136.2
65°	6999.4	6966.3	6935.0	6930.8	6928.2	6976.5	6987.5	6923.1	6798.6	6644.5	6476.7
67.5°	6683.4	6664.8	6666.5	6630.9	6652.9	6736.8	6795.2	6777.5	6663.1	6476.7	6263.3
70°	5931.2	5894.8	5932.1	5978.7	6011.7	6060.0	6118.4	6132.8	6028.6	5837.2	5619.5
72.5°	4441.2	4447.1	4482.7	4495.4	4628.4	4614.9	4667.4	4496.3	4420.9	4238.8	4127.0
75°	2337.1	2299.0	2398.1	2188.0	2101.6	2161.7	1993.2	1831.4	1865.3	1893.2	1691.6
77.5°	825.9	772.5	681.9	645.5	537.0	454.9	371.9	335.4	316.0	305.8	293.1
80°	593.0	609.9	591.3	547.2	465.0	372.7	293.9	232.1	199.1	181.3	169.4
82.5°	599.7	666.6	696.3	683.6	609.0	460.8	304.1	194.0	144.0	120.3	111.8
85°	321.9	352.4	338.8	285.5	256.7	153.3	105.0	70.3	59.3	54.2	50.0
87.5°	12.7	10.2	8.5	8.5	9.3	10.2	8.5	9.3	8.5	8.5	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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5
2.5°	781.0	781.0	781.0	780.2	778.5	774.2	770.0	766.6	764.1	761.5	758.1
5°	796.3	794.6	794.6	794.6	787.8	781.0	775.1	769.1	764.1	759.8	756.4
7.5°	821.7	820.8	817.4	816.6	811.5	800.5	793.7	783.5	777.6	771.7	770.0
10°	852.2	851.3	850.5	849.6	842.8	831.8	823.4	814.0	805.6	797.1	788.6
12.5°	887.7	886.9	886.0	883.5	881.0	875.0	865.7	855.5	845.4	827.6	818.3
15°	931.8	933.5	931.8	930.9	929.2	930.1	924.2	909.8	893.7	870.8	851.3
17.5°	990.2	988.5	987.7	991.1	990.2	994.5	992.8	974.1	949.6	913.1	879.3
20°	1054.6	1054.6	1058.0	1060.5	1068.2	1079.2	1074.1	1051.2	1006.3	955.5	911.5
22.5°	1131.7	1133.4	1136.8	1135.1	1146.9	1164.7	1166.4	1134.2	1075.8	1005.5	943.6
25°	1212.2	1213.9	1210.5	1215.6	1235.0	1260.4	1265.5	1219.8	1142.7	1051.2	970.7
27.5°	1288.4	1290.1	1290.1	1296.9	1315.5	1358.7	1363.8	1313.0	1210.5	1091.0	990.2
30°	1362.9	1369.7	1371.4	1373.1	1401.1	1461.2	1472.2	1398.5	1269.8	1120.7	1003.8
32.5°	1457.0	1459.5	1462.9	1467.1	1499.3	1573.0	1573.0	1472.2	1307.9	1139.3	1006.3
35°	1557.8	1558.6	1566.2	1567.1	1612.8	1686.5	1672.1	1533.2	1335.0	1135.1	987.7
37.5°	1618.8	1622.1	1629.8	1639.9	1688.2	1792.4	1759.4	1585.7	1340.1	1107.1	945.3
40°	1694.2	1700.9	1708.6	1718.7	1790.7	1900.0	1833.1	1618.8	1318.9	1052.1	881.8
42.5°	1775.5	1784.8	1796.6	1815.3	1900.8	1994.9	1889.0	1623.8	1270.6	990.2	806.4
45°	1867.0	1883.9	1897.4	1919.5	2016.0	2077.0	1922.9	1594.2	1209.6	908.9	725.9
47.5°	1972.8	1986.4	2010.1	2033.8	2130.4	2132.9	1926.2	1536.6	1126.6	827.6	640.4
50°	2103.3	2111.8	2147.3	2161.7	2252.4	2191.4	1901.7	1458.7	1039.4	736.1	545.5
52.5°	2276.9	2288.8	2334.5	2356.6	2420.9	2271.0	1867.0	1374.0	939.4	633.6	448.1
55°	2620.0	2671.7	2703.9	2742.0	2783.5	2451.4	1851.7	1283.3	826.7	515.0	354.9
57.5°	3583.1	3566.2	3637.3	3723.7	3722.9	2864.0	1943.2	1205.4	693.8	393.9	272.8
60°	5018.1	5034.2	4997.7	5049.4	4885.1	3375.6	2068.6	1123.2	543.8	293.1	208.4
62.5°	6084.5	5991.4	5939.7	5878.7	5517.0	3431.5	1977.1	954.7	395.6	205.8	160.1
65°	6337.0	6227.7	6116.7	6000.7	5455.2	3093.5	1622.1	700.5	255.8	141.5	127.1
67.5°	6087.9	5912.6	5771.1	5651.7	4998.6	2564.1	1185.9	430.3	146.5	114.4	108.4
70°	5442.5	5248.5	5019.8	4885.9	4209.1	1889.8	759.8	232.1	112.7	101.6	99.1
72.5°	3983.8	3824.5	3574.7	3421.3	3022.4	1148.6	424.4	130.4	105.0	97.4	94.0
75°	1551.8	1468.8	1364.6	1373.1	1225.7	508.2	192.3	112.7	102.5	95.7	92.3
77.5°	266.8	260.1	240.6	240.6	273.6	185.5	127.9	113.5	101.6	94.0	88.1
80°	160.1	156.7	149.1	147.4	142.3	130.4	122.8	115.2	100.0	88.9	81.3
82.5°	105.0	100.8	98.3	97.4	105.9	114.4	115.2	114.4	94.9	77.1	66.1
85°	44.9	44.9	44.9	45.7	61.0	92.3	94.9	101.6	77.9	60.1	47.4
87.5°	7.6	9.3	9.3	10.2	11.0	20.3	25.4	33.0	26.3	25.4	22.9
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°	778.5	778.5	778.5
2.5°	757.3	755.6	755.6
5°	754.7	753.1	753.9
7.5°	764.9	761.5	762.4
10°	783.5	780.2	778.5
12.5°	807.3	803.0	803.0
15°	831.8	821.7	820.8
17.5°	852.2	839.5	837.8
20°	875.0	858.1	855.5
22.5°	896.2	873.3	869.9
25°	911.5	883.5	879.3
27.5°	918.2	885.2	881.8
30°	923.3	886.0	881.0
32.5°	918.2	878.4	874.2
35°	890.3	847.1	844.5
37.5°	842.0	793.7	790.3
40°	778.5	727.6	719.2
42.5°	697.1	649.7	640.4
45°	618.4	564.2	559.9
47.5°	533.7	482.0	484.5
50°	444.7	398.1	397.3
52.5°	360.0	319.3	316.8
55°	283.8	255.0	252.4
57.5°	224.5	209.2	206.7
60°	183.0	175.3	172.8
62.5°	147.4	144.8	144.0
65°	122.8	122.8	122.8
67.5°	106.7	107.6	107.6
70°	98.3	99.1	98.3
72.5°	94.9	97.4	97.4
75°	92.3	94.0	90.6
77.5°	90.6	91.5	85.6
80°	89.8	88.9	77.9
82.5°	77.9	75.4	66.1
85°	71.2	54.2	45.7
87.5°	36.4	25.4	19.5
90°	0.0	0.0	0.0

(END OF REPORT)