

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: P150208

Luminaire Tested: **TMU-E03-LED-E-U-SL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P150208
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-E03-LED-E-U-SL2-8030
Description: TALON MEDIUM LED AREA LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7735.4 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

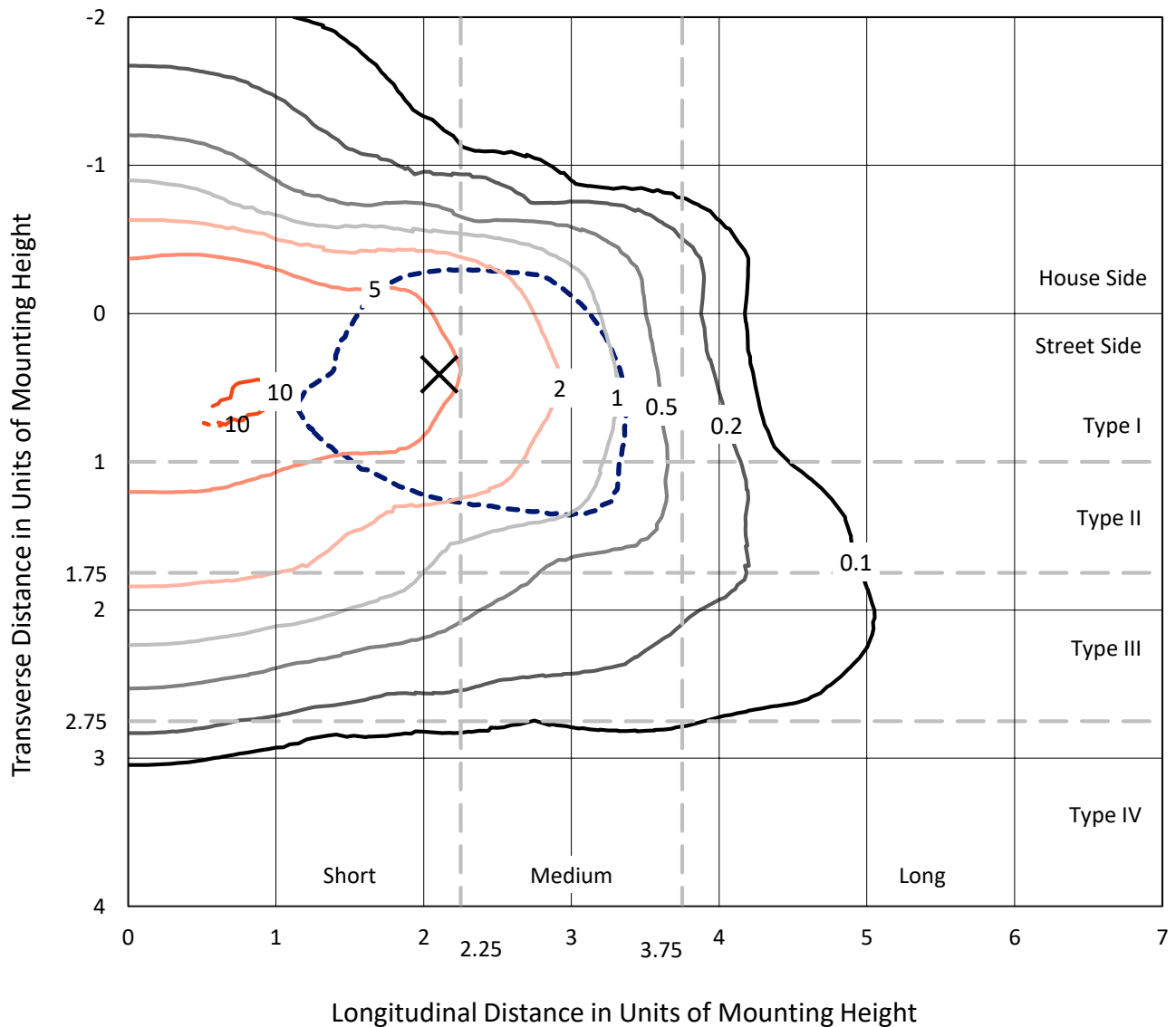
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

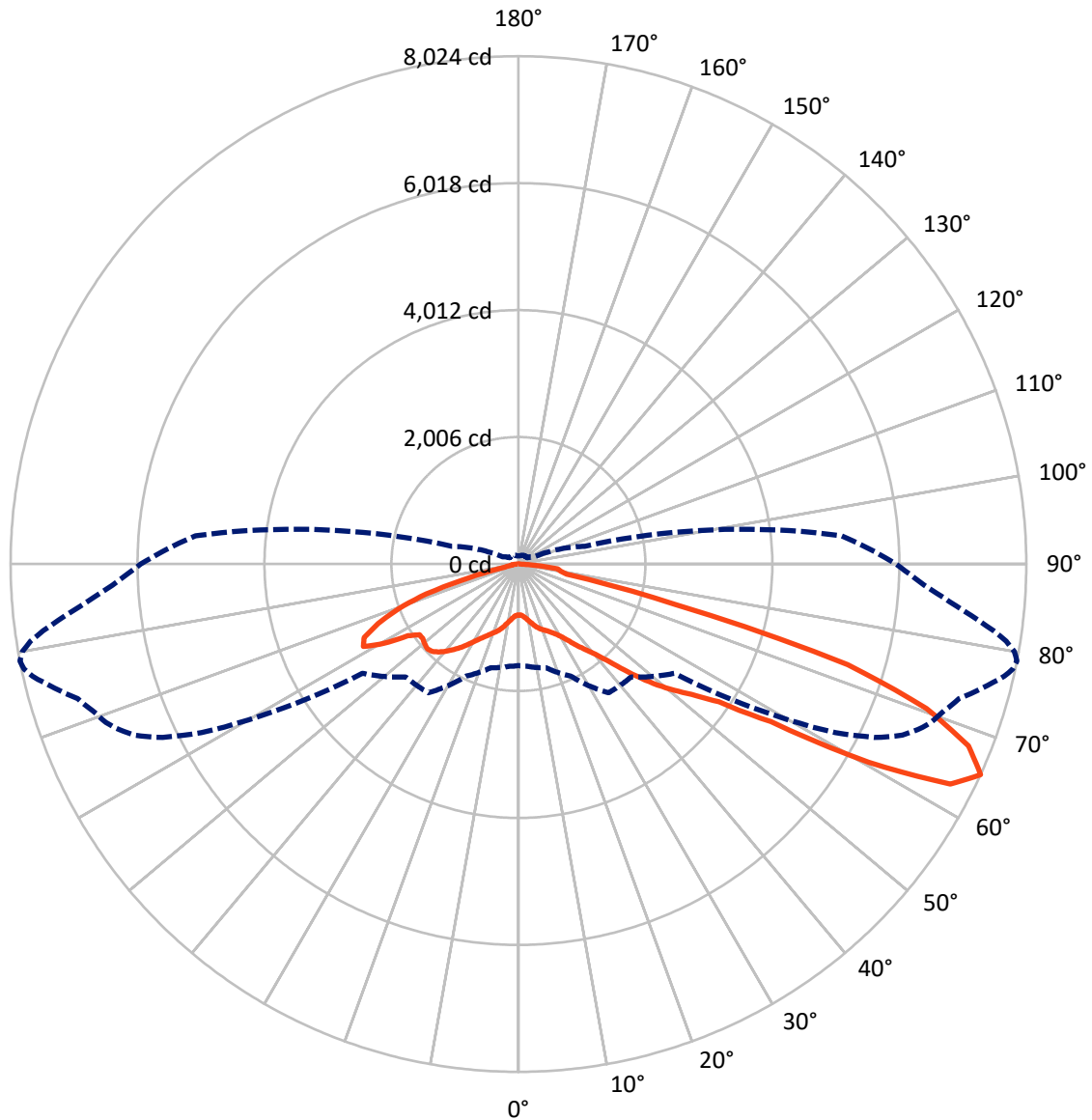
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1828.6	0.0	1828.6
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	5906.8	0.0	5906.8
	% Fixture	76.4	0.0	76.4
Total	Lumens	7735.4	0.0	7735.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.0
10°-20°	261.7	3.4
20°-30°	452.0	5.8
30°-40°	748.3	9.7
40°-50°	1269.0	16.4
50°-60°	1686.1	21.8
60°-70°	2178.0	28.2
70°-80°	913.5	11.8
80°-90°	146.7	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°	7735.4	100.0
0°-180°	7735.4	100.0



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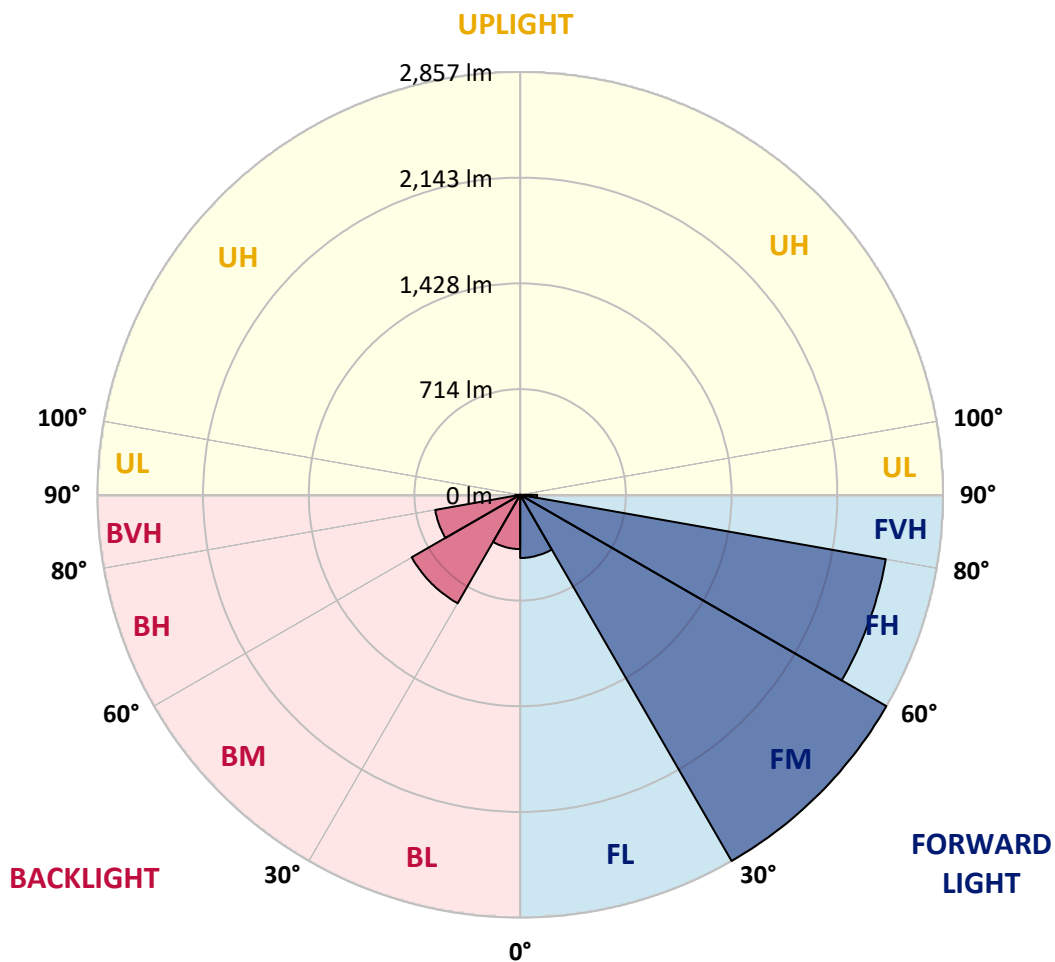
CATALOG NUMBER: TMU-E03-LED-E-U-SL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	426.8	5.5			
FM	(30°-60°)	2856.9	36.9			
FH	(60°-80°)	2508.3	32.4			G2/5000
FVH	(80°-90°)	114.7	1.5			G2/225
BL	(0°-30°)	367.0	4.7	B1/500		
BM	(30°-60°)	846.5	10.9	B1/1000		
BH	(60°-80°)	583.2	7.5	B2/1000		G2/1000
BVH	(80°-90°)	32.0	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°	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2
2.5°	802.6	805.2	803.5	805.2	806.9	807.7	809.4	808.5	808.5	809.4	807.7
5°	802.6	802.6	805.2	809.4	811.1	816.1	822.0	821.2	822.0	821.2	822.9
7.5°	819.5	818.7	821.2	826.3	828.0	835.6	845.7	847.4	849.1	849.1	851.6
10°	849.1	848.2	850.7	853.3	855.8	861.7	876.1	882.0	882.8	883.7	887.0
12.5°	886.2	885.3	882.0	882.0	881.1	892.1	911.5	922.5	924.2	927.5	930.1
15°	912.4	909.8	904.8	901.4	905.6	923.3	952.0	964.7	966.4	968.9	975.7
17.5°	937.7	935.1	924.2	915.7	921.6	950.3	989.2	1002.7	1006.0	1008.6	1016.2
20°	973.1	971.4	955.4	935.1	933.5	970.6	1017.9	1035.6	1038.1	1041.5	1049.1
22.5°	1027.1	1019.5	1001.0	963.0	944.4	982.4	1038.1	1062.6	1066.0	1069.3	1079.5
25°	1094.7	1091.3	1059.2	1001.0	962.1	994.2	1060.1	1090.4	1095.5	1099.7	1113.2
27.5°	1164.7	1159.6	1125.0	1049.1	993.4	1017.9	1094.7	1129.3	1136.0	1142.8	1155.4
30°	1227.2	1225.5	1196.8	1114.1	1044.0	1062.6	1150.4	1192.6	1200.2	1208.6	1220.4
32.5°	1374.0	1374.9	1345.3	1260.9	1166.4	1143.6	1230.5	1293.8	1297.2	1307.3	1328.4
35°	1655.1	1658.4	1647.5	1580.8	1474.5	1380.8	1389.2	1451.7	1455.0	1463.5	1483.7
37.5°	1843.3	1850.0	1883.8	1904.9	1850.9	1807.8	1700.6	1676.2	1678.7	1673.6	1669.4
40°	1947.1	1957.2	2045.8	2155.6	2214.6	2215.5	2169.1	2061.0	2019.7	2007.9	1957.2
42.5°	2006.2	2023.0	2148.8	2336.2	2505.8	2622.3	2651.0	2531.1	2500.7	2446.7	2349.7
45°	2045.0	2065.2	2213.8	2470.4	2720.2	2918.5	3067.9	3014.7	2994.5	2961.6	2872.1
47.5°	2038.2	2054.3	2208.7	2515.9	2832.4	3114.3	3379.3	3434.2	3409.7	3401.3	3340.5
50°	1915.0	1929.4	2086.3	2402.8	2770.8	3188.6	3576.8	3732.1	3732.1	3748.2	3729.6
52.5°	1783.4	1795.2	1937.8	2222.2	2571.6	3116.0	3686.6	3944.0	3977.7	4005.6	4049.5
55°	1733.6	1747.9	1855.9	2099.0	2402.0	2908.4	3723.7	4102.6	4165.1	4212.4	4311.9
57.5°	1757.2	1771.5	1848.3	2032.3	2302.4	2696.6	3725.4	4316.2	4436.9	4533.9	4735.6
60°	1859.3	1872.8	1937.0	2093.9	2276.2	2574.2	3653.6	4656.3	4848.7	5031.0	5366.9
62.5°	1812.0	1828.9	1922.6	2196.1	2471.2	2481.3	3394.5	4919.6	5229.4	5498.6	6032.8
65°	1605.3	1623.0	1696.4	1952.2	2483.0	2521.8	3010.5	4924.7	5309.5	5673.3	6249.8
67.5°	1218.7	1225.5	1283.7	1488.8	1985.9	2566.6	2615.5	4341.5	4707.8	5113.7	5708.8
70°	622.9	634.7	651.6	822.0	1278.6	2120.9	2247.5	3199.6	3666.3	4085.8	4800.6
72.5°	216.1	220.3	237.2	314.0	622.9	1391.7	1967.3	2192.7	2474.6	2867.0	3695.0
75°	130.0	130.0	135.9	158.7	284.4	725.0	1750.4	1790.9	1828.9	1960.6	2502.4
77.5°	103.0	104.7	104.7	108.9	157.8	372.2	1329.3	1665.2	1670.3	1682.9	1774.1
80°	73.4	76.8	83.6	86.9	102.1	204.2	746.1	1461.8	1561.4	1609.5	1676.2
82.5°	54.9	58.2	70.9	75.1	79.3	113.9	335.1	1008.6	1190.0	1286.2	1520.9
85°	24.5	28.7	48.1	53.2	55.7	60.8	157.0	287.0	330.0	370.5	488.7
87.5°	4.2	4.2	7.6	11.0	16.0	15.2	34.6	49.0	49.8	58.2	65.0
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°	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2
2.5°	807.7	807.7	807.7	806.9	807.7	807.7	807.7	807.7	808.5	808.5	808.5
5°	825.4	823.7	824.6	824.6	824.6	823.7	825.4	824.6	825.4	828.0	827.1
7.5°	851.6	853.3	854.1	855.0	855.0	855.0	855.8	857.5	857.5	860.0	859.2
10°	890.4	889.6	890.4	892.9	895.5	896.3	898.9	898.0	899.7	903.1	906.4
12.5°	931.8	933.5	936.0	938.5	942.7	943.6	946.1	947.0	952.0	952.0	955.4
15°	978.2	979.0	984.1	984.9	990.0	991.7	995.9	997.6	1003.5	1004.3	1007.7
17.5°	1020.4	1022.1	1024.6	1027.1	1033.0	1035.6	1039.0	1042.3	1047.4	1049.1	1055.0
20°	1054.1	1057.5	1058.4	1063.4	1068.5	1071.9	1075.2	1078.6	1083.7	1086.2	1092.1
22.5°	1084.5	1087.9	1090.4	1094.7	1098.0	1103.1	1104.8	1110.7	1115.8	1120.0	1125.0
25°	1117.4	1122.5	1125.0	1132.6	1135.2	1140.2	1144.5	1150.4	1157.1	1162.2	1168.9
27.5°	1163.9	1171.5	1174.8	1183.3	1189.2	1191.7	1198.5	1206.9	1212.8	1218.7	1225.5
30°	1228.0	1242.4	1244.9	1250.8	1261.8	1263.5	1271.9	1278.6	1287.9	1293.8	1299.7
32.5°	1327.6	1345.3	1347.0	1353.8	1363.0	1366.4	1373.2	1380.8	1395.1	1397.6	1406.9
35°	1480.4	1488.0	1494.7	1497.2	1504.8	1509.1	1514.1	1522.6	1536.9	1535.2	1545.3
37.5°	1663.5	1666.0	1666.9	1658.4	1660.1	1652.5	1661.8	1663.5	1668.6	1672.8	1682.9
40°	1925.1	1899.0	1895.6	1875.3	1855.1	1844.1	1839.9	1823.0	1827.2	1828.9	1837.4
42.5°	2307.5	2256.8	2214.6	2185.9	2136.1	2111.7	2078.7	2052.6	2032.3	2039.9	2043.3
45°	2791.9	2719.3	2651.8	2564.0	2499.1	2452.6	2394.4	2342.1	2318.4	2307.5	2321.0
47.5°	3275.5	3211.4	3132.1	3041.7	2938.8	2862.0	2764.9	2679.7	2620.6	2598.6	2610.5
50°	3693.3	3634.2	3574.3	3521.1	3401.3	3317.7	3185.2	3074.7	2981.8	2934.6	2921.9
52.5°	4040.2	4009.0	3976.9	3932.2	3835.9	3752.4	3646.9	3538.0	3414.8	3318.6	3285.7
55°	4349.9	4368.5	4352.5	4353.3	4315.3	4262.2	4172.7	4091.7	4005.6	3896.7	3851.1
57.5°	4801.5	4911.2	4933.1	4988.0	5015.0	5043.7	5069.0	5020.9	4999.0	4917.9	4918.8
60°	5512.9	5673.3	5812.6	5939.2	6043.0	6144.3	6250.6	6297.9	6350.2	6374.7	6458.2
62.5°	6270.0	6422.8	6630.4	6800.0	6895.4	7027.1	7142.7	7217.8	7309.8	7407.7	7535.2
65°	6457.4	6641.4	6772.2	6885.3	6979.8	7049.9	7113.2	7202.6	7279.4	7434.7	7584.9
67.5°	5977.1	6124.0	6243.8	6355.3	6428.7	6487.8	6544.3	6603.4	6735.0	6876.0	7027.1
70°	5130.6	5307.9	5506.2	5650.5	5686.8	5737.5	5791.5	5868.3	5934.1	6081.8	6196.6
72.5°	4122.1	4376.9	4544.9	4744.9	4788.0	4864.8	4895.1	4955.1	4966.9	5047.1	5077.4
75°	2872.9	3165.0	3333.8	3480.6	3509.3	3467.1	3484.0	3272.2	3218.1	3174.2	3138.8
77.5°	1896.4	1974.9	2001.9	1978.3	1865.2	1776.6	1682.1	1589.2	1599.4	1524.2	1392.6
80°	1686.3	1704.0	1679.5	1655.9	1590.9	1498.1	1412.8	1325.9	1282.9	1237.3	1169.8
82.5°	1640.7	1709.1	1716.7	1688.0	1636.5	1535.2	1432.3	1303.1	1193.4	1092.1	989.2
85°	548.6	667.6	720.8	770.6	785.8	803.5	742.7	660.0	560.4	493.7	386.5
87.5°	70.1	86.9	100.4	86.1	100.4	118.2	85.2	95.4	96.2	59.9	44.7
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2
2.5°	809.4	808.5	808.5	808.5	807.7	808.5	808.5	808.5	808.5	808.5	807.7
5°	828.0	828.0	830.5	831.3	829.6	828.8	829.6	830.5	830.5	829.6	830.5
7.5°	862.6	863.4	865.1	867.6	865.9	866.8	867.6	866.8	869.3	870.2	869.3
10°	906.4	908.1	912.4	913.2	912.4	915.7	916.6	914.9	916.6	916.6	920.0
12.5°	957.1	958.8	963.8	965.5	967.2	968.1	970.6	971.4	974.0	975.7	978.2
15°	1011.9	1013.6	1017.0	1022.9	1024.6	1026.3	1028.0	1033.0	1033.9	1037.3	1039.8
17.5°	1058.4	1060.9	1066.0	1070.2	1072.7	1076.9	1078.6	1084.5	1086.2	1091.3	1095.5
20°	1095.5	1099.7	1103.9	1109.0	1113.2	1118.3	1120.0	1125.9	1129.3	1131.8	1136.9
22.5°	1129.3	1134.3	1140.2	1146.1	1149.5	1156.3	1158.8	1161.3	1168.9	1172.3	1177.4
25°	1173.1	1178.2	1185.0	1192.6	1195.9	1204.4	1206.9	1211.1	1219.6	1222.9	1230.5
27.5°	1233.1	1239.8	1244.9	1252.5	1256.7	1262.6	1268.5	1273.6	1281.2	1286.2	1294.7
30°	1308.2	1313.2	1321.7	1327.6	1334.3	1342.8	1349.5	1354.6	1358.8	1366.4	1375.7
32.5°	1418.7	1419.6	1422.1	1436.5	1443.2	1450.0	1459.3	1463.5	1470.2	1477.8	1488.0
35°	1556.3	1563.9	1569.8	1576.6	1584.2	1591.8	1595.1	1607.8	1613.7	1623.8	1634.0
37.5°	1693.0	1693.9	1707.4	1711.6	1718.4	1726.0	1737.8	1750.4	1765.6	1775.8	1791.8
40°	1839.9	1846.7	1863.5	1872.0	1880.4	1899.0	1908.3	1928.5	1953.8	1968.2	1995.2
42.5°	2052.6	2062.7	2093.1	2106.6	2126.9	2157.2	2176.7	2204.5	2214.6	2249.2	2261.9
45°	2331.1	2362.3	2406.2	2434.9	2471.2	2504.1	2521.0	2533.7	2548.9	2575.9	2572.5
47.5°	2632.4	2672.9	2721.9	2781.0	2804.6	2843.4	2865.3	2889.8	2876.3	2869.6	2862.8
50°	2941.3	2988.6	3053.6	3106.7	3143.0	3166.7	3185.2	3181.8	3153.2	3138.0	3095.8
52.5°	3284.8	3312.7	3374.3	3419.9	3441.8	3446.9	3442.6	3417.3	3390.3	3342.2	3292.4
55°	3811.5	3798.8	3823.3	3844.4	3837.6	3861.3	3800.5	3776.9	3710.2	3647.7	3581.1
57.5°	4881.6	4898.5	4761.8	4700.2	4689.2	4711.2	4604.0	4590.5	4429.3	4409.0	4296.8
60°	6446.4	6529.1	6421.9	6362.0	6200.0	6146.8	6026.9	5977.1	5822.7	5697.8	5540.0
62.5°	7622.9	7698.0	7742.8	7657.5	7563.0	7423.7	7242.3	7041.4	6877.7	6686.1	6519.0
65°	7729.3	7881.2	7984.2	8023.8	7957.1	7804.4	7580.7	7327.5	7076.9	6836.3	6625.3
67.5°	7232.2	7368.0	7527.6	7670.2	7678.6	7579.0	7388.3	7130.9	6841.4	6544.3	6297.0
70°	6378.0	6548.5	6687.8	6838.0	6942.7	6885.3	6789.9	6553.6	6253.1	6021.9	5737.5
72.5°	5187.2	5258.9	5292.7	5440.4	5442.1	5337.4	5269.9	5139.1	4896.8	4733.1	4516.2
75°	3029.1	2871.3	2703.3	2557.3	2438.3	2388.5	2167.4	2130.2	1981.7	1889.7	1754.7
77.5°	1249.1	1108.2	926.7	775.6	626.2	558.7	460.8	417.8	362.1	337.6	321.6
80°	1071.0	937.7	800.9	670.1	553.7	437.2	340.1	264.2	207.6	176.4	163.7
82.5°	874.4	794.2	698.8	627.9	536.8	449.8	379.8	294.6	220.3	162.0	124.1
85°	315.7	259.1	208.5	191.6	152.8	125.8	105.5	90.3	74.3	59.1	52.3
87.5°	35.4	33.8	19.4	18.6	21.1	15.2	17.7	16.0	13.5	11.8	12.7
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2
2.5°	807.7	807.7	808.5	808.5	809.4	810.2	811.9	811.1	811.1	811.9	811.9
5°	830.5	833.0	832.2	832.2	832.2	833.0	833.9	830.5	827.1	823.7	822.0
7.5°	870.2	871.8	873.5	871.8	873.5	872.7	871.0	861.7	850.7	837.2	828.0
10°	921.6	921.6	923.3	922.5	925.9	923.3	918.3	897.2	873.5	844.8	823.7
12.5°	977.3	983.2	980.7	981.6	988.3	981.6	969.7	938.5	896.3	849.9	812.8
15°	1043.2	1045.7	1047.4	1044.9	1049.1	1043.2	1022.1	972.3	910.7	845.7	790.8
17.5°	1097.2	1098.0	1098.9	1100.6	1106.5	1099.7	1063.4	995.9	914.0	826.3	753.7
20°	1139.4	1143.6	1147.0	1147.0	1155.4	1145.3	1097.2	1007.7	903.1	794.2	706.4
22.5°	1183.3	1186.7	1190.9	1191.7	1202.7	1192.6	1125.0	1005.2	874.4	748.6	651.6
25°	1237.3	1240.7	1244.0	1248.3	1263.5	1249.1	1152.9	995.1	834.7	694.6	592.5
27.5°	1299.7	1307.3	1309.9	1316.6	1334.3	1312.4	1176.5	979.9	790.8	632.1	530.0
30°	1383.3	1392.6	1396.0	1405.2	1429.7	1381.6	1190.0	953.7	735.1	568.8	463.4
32.5°	1495.6	1508.2	1518.3	1528.5	1556.3	1450.8	1191.7	915.7	670.1	498.0	399.2
35°	1642.4	1661.8	1669.4	1676.2	1702.3	1525.9	1184.1	859.2	590.8	425.4	348.6
37.5°	1807.0	1826.4	1831.5	1834.8	1839.9	1590.1	1165.6	773.1	501.3	362.1	308.1
40°	2009.5	2026.4	2033.2	2028.1	2001.1	1639.9	1124.2	672.7	414.4	319.0	282.7
42.5°	2256.8	2282.2	2284.7	2261.9	2172.4	1667.7	1041.5	554.5	346.0	287.8	263.3
45°	2563.2	2561.5	2547.2	2531.1	2359.0	1656.8	925.9	451.5	303.0	263.3	245.6
47.5°	2838.3	2809.6	2787.7	2740.4	2523.5	1592.6	776.5	373.9	276.8	244.8	230.4
50°	3063.7	3011.4	2964.9	2913.5	2645.9	1478.7	627.9	317.3	252.4	228.7	216.1
52.5°	3241.8	3178.5	3124.5	3073.8	2764.1	1352.1	514.8	276.0	228.7	212.7	200.0
55°	3520.3	3457.0	3370.9	3315.2	2944.7	1235.6	441.4	243.1	205.9	195.8	183.1
57.5°	4225.0	4169.3	4066.3	3922.0	3408.9	1191.7	400.1	217.7	187.4	181.5	171.3
60°	5455.6	5365.3	5231.1	5084.2	4352.5	1221.3	367.1	200.0	174.7	169.6	162.0
62.5°	6383.9	6225.3	6073.4	5937.5	5107.0	1220.4	324.1	186.5	165.4	162.9	155.3
65°	6421.9	6260.7	6108.0	5965.3	5123.9	1086.2	273.5	174.7	163.7	162.9	150.2
67.5°	6081.0	5906.2	5758.6	5578.8	4743.2	849.1	219.4	167.1	170.5	168.8	148.5
70°	5523.9	5296.0	5174.5	4997.3	4174.4	594.2	180.6	169.6	184.8	179.8	151.1
72.5°	4335.6	4163.4	3978.6	3855.4	3267.9	375.6	151.9	171.3	190.7	182.3	157.8
75°	1613.7	1660.1	1584.2	1557.2	1660.1	220.3	135.0	159.5	170.5	157.8	143.5
77.5°	325.8	311.4	295.4	292.0	377.3	135.9	124.1	138.4	130.8	115.6	116.5
80°	156.1	151.9	146.9	146.0	140.1	113.1	114.8	118.2	98.7	89.5	95.4
82.5°	103.8	97.9	96.2	92.8	94.5	101.3	108.9	101.3	76.0	70.9	86.1
85°	48.1	46.4	45.6	45.6	50.6	91.2	90.3	74.3	52.3	50.6	86.1
87.5°	11.8	11.8	12.7	11.8	13.5	27.0	23.6	22.8	19.4	21.9	40.5
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):

	165°	175°	180°
0°	805.2	805.2	805.2
2.5°	811.1	811.9	811.1
5°	818.7	818.7	818.7
7.5°	818.7	816.1	815.3
10°	806.9	799.3	799.3
12.5°	786.6	773.9	772.3
15°	748.6	731.7	729.2
17.5°	700.5	677.7	673.5
20°	646.5	617.8	612.7
22.5°	587.4	554.5	552.0
25°	529.2	495.4	488.7
27.5°	464.2	431.3	427.9
30°	399.2	370.5	368.8
32.5°	344.3	326.6	323.2
35°	305.5	295.4	291.2
37.5°	280.2	272.6	271.8
40°	260.8	254.0	253.2
42.5°	244.8	238.8	238.0
45°	228.7	223.7	222.0
47.5°	212.7	207.6	206.8
50°	198.3	191.6	190.7
52.5°	184.8	178.1	176.4
55°	172.2	165.4	165.4
57.5°	161.2	154.5	153.6
60°	151.1	144.3	143.5
62.5°	143.5	135.0	134.2
65°	137.6	129.1	127.4
67.5°	134.2	124.1	121.5
70°	140.1	121.5	117.3
72.5°	140.9	119.0	113.1
75°	135.9	112.3	108.0
77.5°	119.0	100.4	96.2
80°	103.0	77.6	71.7
82.5°	97.9	63.3	54.9
85°	76.0	41.4	38.8
87.5°	43.0	22.8	18.6
90°	0.0	0.0	0.0

(END OF REPORT)