

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: P149061

Luminaire Tested: **TMU-E02-LED-E-U-RW-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P149061  
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-E02-LED-E-U-RW-7050  
Description: TALON MEDIUM LED AREA LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (42) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6411 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G1

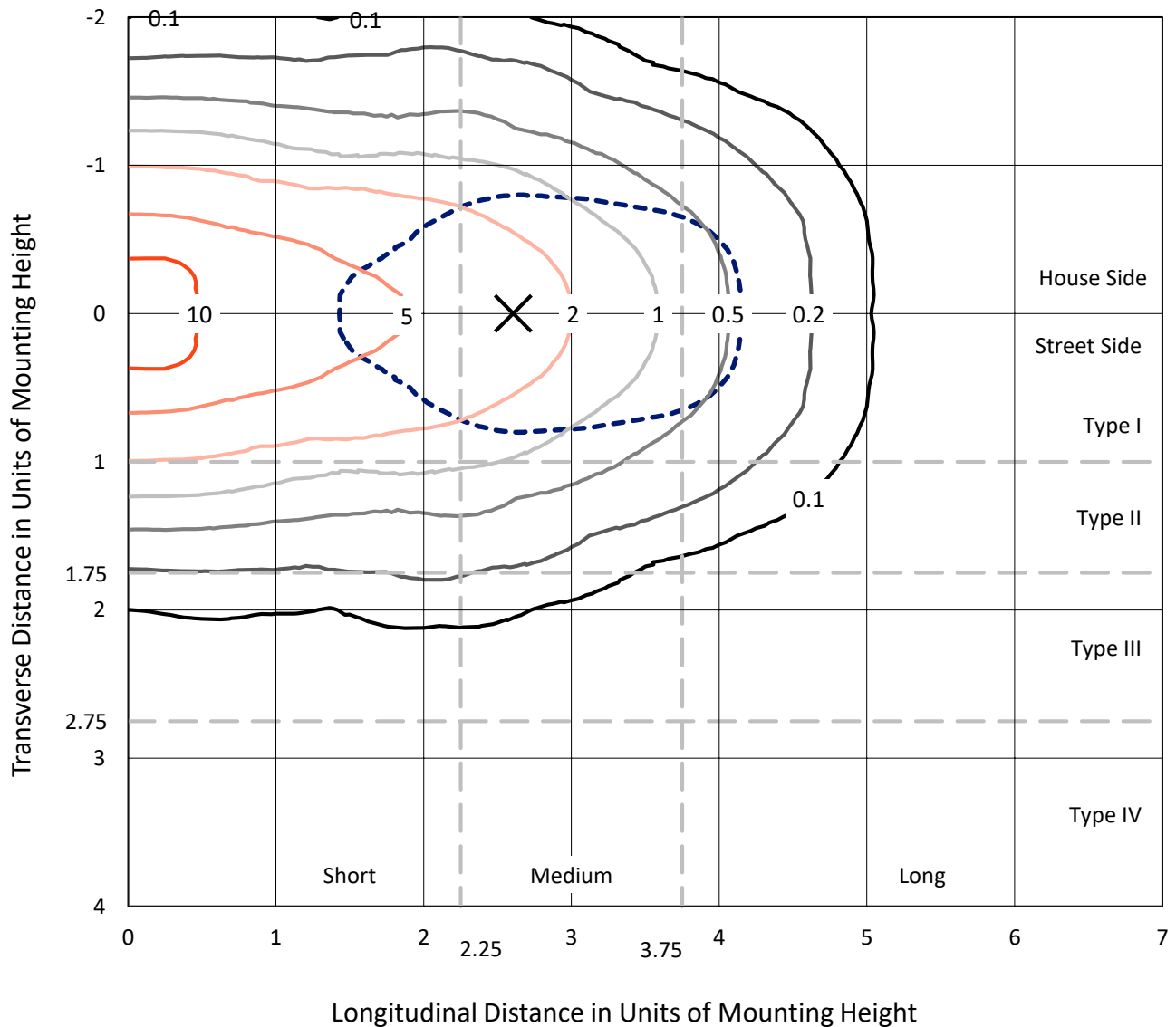
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

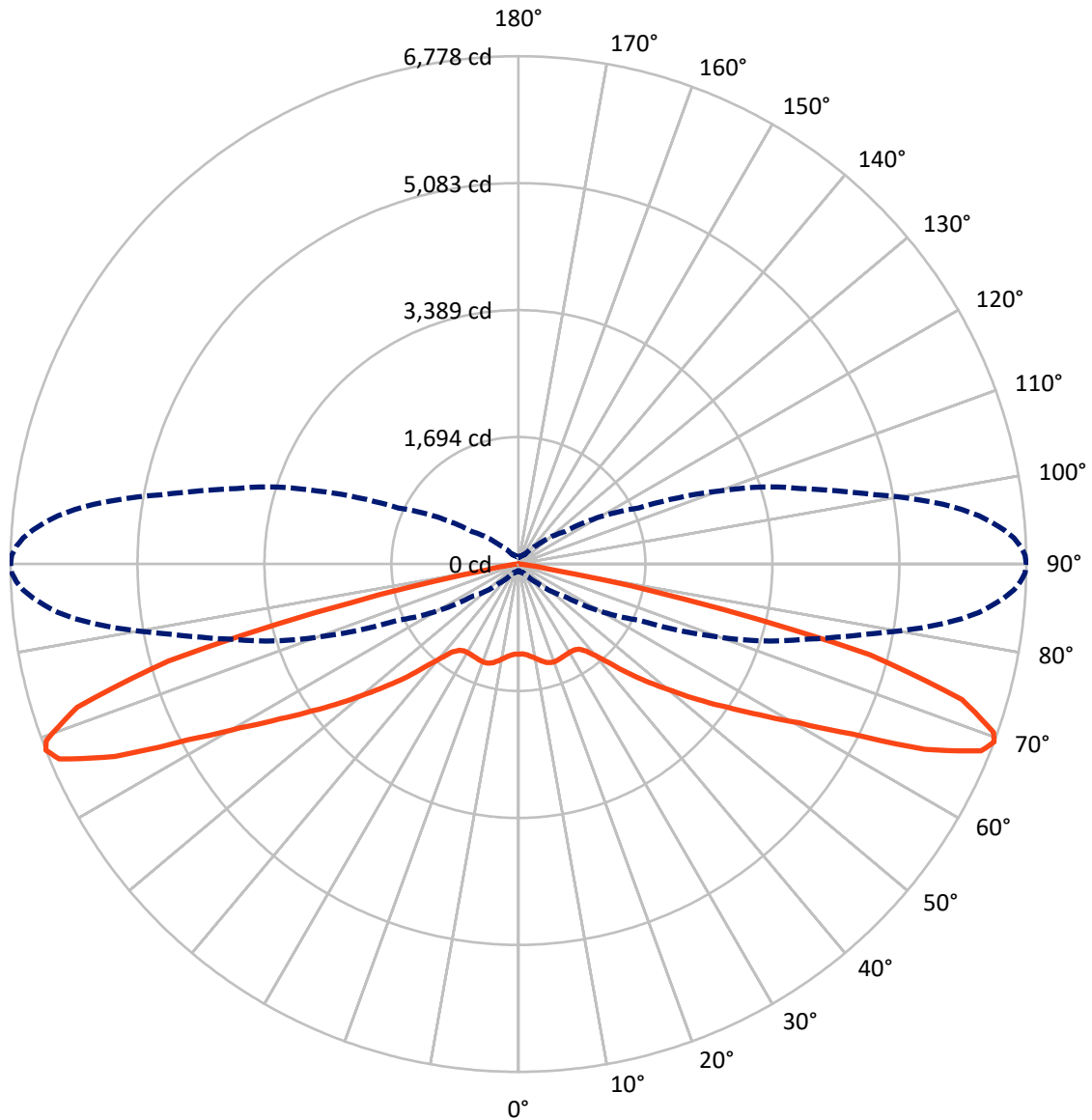
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 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
<b>House Side</b>	Lumens	3205.5	0.0	3205.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3205.5	0.0	3205.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6411.0	0.0	6411.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.8	1.8
10°-20°	371.7	5.8
20°-30°	602.2	9.4
30°-40°	750.5	11.7
40°-50°	937.8	14.6
50°-60°	1158.0	18.1
60°-70°	1438.9	22.4
70°-80°	955.2	14.9
80°-90°	78.9	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°	6411.0	100.0
0°-180°	6411.0	100.0



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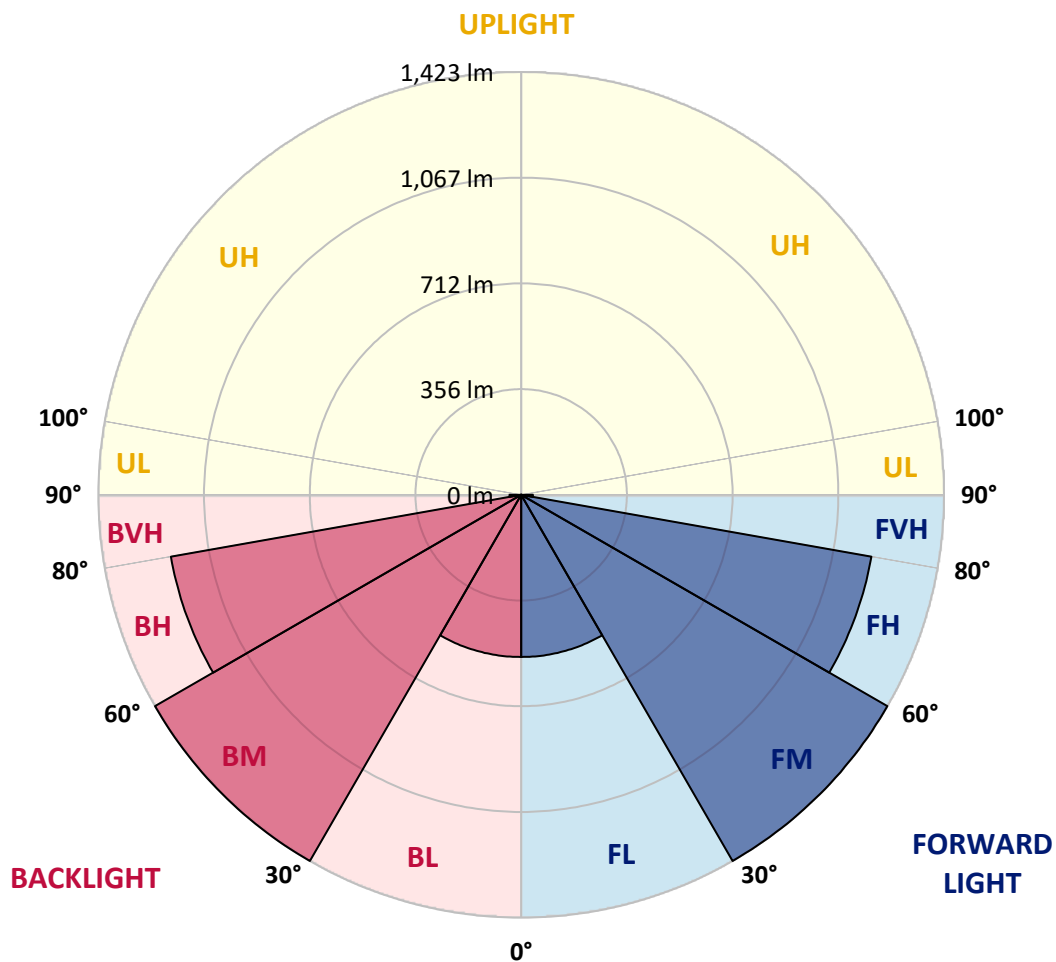
CATALOG NUMBER: TMU-E02-LED-E-U-RW-7050

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	545.9	8.5			
FM	(30°-60°)	1423.2	22.2			
FH	(60°-80°)	1197.1	18.7			G1/1800
FVH	(80°-90°)	39.4	0.6			G1/100
BL	(0°-30°)	545.9	8.5	B2/1000		
BM	(30°-60°)	1423.2	22.2	B2/2500		
BH	(60°-80°)	1197.1	18.7	B3/2500		G1/1800
BVH	(80°-90°)	39.4	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-G1**

Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2
2.5°	1206.7	1207.8	1207.0	1208.4	1208.1	1208.1	1207.4	1206.0	1205.8	1205.7	1205.5
5°	1218.4	1216.9	1219.0	1221.0	1220.4	1220.8	1220.4	1220.4	1220.2	1220.1	1219.9
7.5°	1230.6	1230.3	1231.6	1237.2	1237.8	1239.8	1242.2	1244.0	1244.0	1244.1	1244.2
10°	1241.2	1241.6	1245.0	1252.9	1257.0	1263.5	1270.0	1275.1	1275.5	1275.8	1276.2
12.5°	1249.8	1250.1	1255.2	1267.6	1277.5	1289.8	1303.8	1311.7	1312.4	1313.1	1313.8
15°	1250.4	1251.5	1260.4	1280.6	1300.4	1320.6	1337.4	1347.9	1348.5	1349.1	1349.6
17.5°	1241.6	1242.3	1257.4	1287.1	1320.2	1351.8	1369.2	1373.9	1374.2	1374.4	1374.6
20°	1218.4	1220.1	1241.2	1285.4	1336.0	1377.0	1395.2	1388.6	1388.0	1387.4	1386.7
22.5°	1180.7	1180.4	1208.0	1267.6	1339.0	1396.9	1412.9	1395.9	1393.8	1391.8	1389.8
25°	1119.8	1123.9	1156.4	1227.6	1321.6	1401.3	1425.6	1399.6	1396.7	1393.8	1390.9
27.5°	1053.8	1056.2	1090.8	1167.0	1281.0	1385.9	1431.8	1407.2	1403.9	1400.6	1397.4
30°	976.8	979.9	1016.9	1096.6	1215.6	1346.2	1430.0	1424.2	1420.5	1416.7	1412.9
32.5°	901.6	905.0	938.2	1025.4	1146.8	1291.8	1419.8	1448.5	1444.6	1440.7	1436.8
35°	823.6	828.8	869.1	957.4	1080.5	1231.4	1404.0	1479.6	1477.5	1475.3	1473.2
37.5°	759.0	760.0	799.0	891.7	1018.9	1173.6	1383.2	1519.0	1520.6	1522.1	1523.7
40°	686.8	693.3	732.3	830.1	963.2	1124.6	1363.4	1572.3	1580.5	1588.7	1596.8
42.5°	622.2	622.8	662.6	763.4	902.6	1085.2	1352.4	1636.6	1654.1	1671.6	1689.1
45°	554.1	556.8	592.8	690.2	832.8	1038.8	1352.0	1710.8	1738.8	1766.7	1794.6
47.5°	489.8	490.8	528.8	619.4	752.8	973.8	1349.7	1790.6	1828.6	1866.6	1904.6
50°	428.2	427.2	464.5	551.7	673.8	888.6	1328.8	1880.8	1928.8	1976.8	2024.8
52.5°	357.8	362.6	401.2	484.6	602.0	802.1	1268.0	1979.7	2037.1	2094.5	2151.9
55°	288.7	290.8	332.1	410.1	529.1	721.3	1161.9	2070.7	2138.4	2206.0	2273.6
57.5°	212.8	218.9	255.2	332.1	455.2	653.3	1027.2	2117.9	2200.2	2282.6	2364.9
60°	150.2	155.0	187.0	251.8	374.2	581.8	911.2	2091.6	2198.5	2305.5	2412.5
62.5°	117.0	120.8	146.4	188.5	291.8	510.4	828.1	2006.4	2151.9	2297.5	2443.1
65°	102.6	106.0	129.3	150.8	217.9	437.4	782.6	1916.4	2108.8	2301.3	2493.7
67.5°	92.6	96.8	117.0	132.0	177.5	381.7	770.6	1859.6	2077.6	2295.5	2513.5
69°	88.2	92.4	110.4	123.2	164.9	361.9	750.1	1770.4	1987.1	2203.8	2420.4
70°	85.5	88.9	105.7	118.7	160.8	348.2	715.8	1658.9	1871.7	2084.4	2297.2
72.5°	79.4	81.0	95.8	108.4	149.1	281.5	550.7	1232.0	1416.5	1600.9	1785.4
75°	70.1	72.2	85.9	98.2	116.3	174.8	348.6	762.0	899.8	1037.5	1175.2
77.5°	60.6	62.2	74.2	93.7	90.3	109.1	208.3	424.1	504.0	583.8	663.7
80°	48.6	50.7	61.2	93.0	74.6	84.8	149.8	296.5	318.1	339.6	361.2
82.5°	35.6	37.3	47.8	75.2	57.1	64.0	114.2	251.4	258.8	266.3	273.8
85°	18.1	18.4	30.4	45.8	36.3	33.2	64.3	172.0	176.8	181.6	186.4
87.5°	3.1	3.1	6.8	7.8	8.9	5.4	8.2	29.4	30.3	31.2	32.2
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):**

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2
2.5°	1205.3	1205.2	1204.6	1204.7	1205.1	1204.9	1205.4	1205.4	1205.8	1204.5	1204.3
5°	1219.8	1219.7	1219.6	1219.6	1219.8	1219.8	1220.0	1220.6	1220.5	1219.6	1219.5
7.5°	1244.2	1244.3	1244.7	1244.3	1245.0	1244.7	1244.0	1245.1	1245.8	1245.9	1246.6
10°	1276.6	1277.0	1278.2	1278.0	1279.2	1279.0	1279.2	1280.4	1281.2	1281.3	1282.2
12.5°	1314.4	1315.1	1315.7	1316.4	1317.7	1316.9	1318.6	1319.2	1320.3	1322.3	1321.3
15°	1350.2	1350.7	1352.6	1352.7	1353.8	1354.3	1355.8	1356.5	1356.7	1358.4	1358.6
17.5°	1374.8	1375.0	1375.7	1375.3	1376.3	1376.0	1377.1	1377.6	1378.5	1379.4	1380.9
20°	1386.0	1385.4	1385.0	1384.6	1383.9	1382.9	1383.2	1383.7	1383.8	1384.6	1385.8
22.5°	1387.8	1385.8	1383.7	1382.3	1380.2	1378.4	1376.7	1376.9	1377.0	1376.8	1377.6
25°	1388.0	1385.1	1381.8	1377.9	1375.0	1371.1	1367.8	1367.5	1366.6	1366.6	1367.0
27.5°	1394.2	1390.9	1386.3	1381.8	1375.5	1370.3	1365.0	1363.2	1361.4	1360.2	1359.7
30°	1409.1	1405.3	1399.8	1394.0	1387.2	1379.1	1371.6	1369.2	1366.6	1364.3	1362.3
32.5°	1432.9	1429.0	1423.0	1417.0	1407.9	1399.8	1392.4	1388.7	1384.9	1380.8	1377.0
35°	1471.0	1468.8	1463.5	1458.3	1451.6	1445.3	1438.6	1434.4	1428.1	1424.9	1420.3
37.5°	1525.3	1526.8	1526.9	1527.6	1525.5	1522.4	1517.6	1513.2	1511.1	1502.6	1497.1
40°	1605.0	1613.2	1620.7	1626.5	1631.6	1636.7	1641.1	1638.5	1639.4	1637.1	1633.8
42.5°	1706.6	1724.0	1740.0	1756.0	1767.5	1785.5	1798.1	1802.1	1812.2	1816.1	1823.5
45°	1822.5	1850.4	1877.2	1902.0	1925.0	1950.8	1975.9	1994.6	2015.0	2038.1	2061.3
47.5°	1942.6	1980.6	2020.0	2052.4	2085.8	2123.9	2157.2	2185.3	2222.0	2255.9	2293.3
50°	2072.8	2120.8	2165.8	2205.6	2248.6	2292.5	2338.1	2379.5	2429.0	2483.3	2542.1
52.5°	2209.3	2266.7	2318.7	2368.7	2419.1	2469.4	2518.0	2576.4	2637.5	2709.2	2782.6
55°	2341.3	2409.0	2468.0	2523.6	2581.3	2637.6	2687.7	2765.7	2840.7	2926.3	3022.2
57.5°	2447.2	2529.5	2597.6	2663.7	2728.7	2788.6	2850.2	2938.2	3033.8	3133.8	3255.3
60°	2519.5	2626.5	2713.4	2792.8	2872.6	2947.9	3018.8	3133.9	3247.6	3371.8	3523.2
62.5°	2588.6	2734.2	2847.6	2956.0	3063.6	3160.2	3248.3	3393.0	3541.6	3695.2	3875.2
65°	2686.1	2878.6	3045.6	3196.6	3345.5	3487.6	3619.4	3802.8	3990.3	4192.5	4407.4
67.5°	2731.4	2949.4	3166.9	3370.4	3559.5	3739.4	3908.8	4130.5	4351.1	4585.5	4845.2
69°	2637.1	2853.8	3086.3	3308.6	3517.6	3708.4	3891.6	4118.0	4347.5	4586.8	4848.7
70°	2510.0	2722.8	2957.5	3189.8	3389.7	3588.5	3778.4	4003.1	4235.5	4475.5	4749.6
72.5°	1969.8	2154.3	2383.2	2608.7	2809.3	3008.8	3193.2	3423.1	3657.0	3909.1	4168.8
75°	1312.9	1450.6	1621.1	1830.3	2014.2	2190.5	2369.2	2563.7	2792.0	2999.7	3237.2
77.5°	743.6	823.5	922.6	1058.6	1190.5	1296.1	1423.6	1515.0	1647.5	1761.9	1882.8
80°	382.7	404.3	433.8	466.5	485.1	482.1	501.1	482.4	486.5	471.2	454.8
82.5°	281.4	288.8	302.2	308.8	308.1	286.6	263.7	232.0	204.0	174.7	147.7
85°	191.2	196.0	199.3	204.4	202.9	193.7	173.0	145.5	118.6	95.2	76.1
87.5°	33.1	34.0	33.8	36.6	36.7	34.1	28.0	23.9	20.2	15.1	10.6
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):**

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2	1201.2
2.5°	1204.0	1204.0	1204.6	1204.0	1204.0	1204.0	1203.6	1204.3	1204.0	1202.9	1201.9
5°	1219.7	1218.7	1218.4	1219.0	1219.7	1218.3	1219.4	1220.4	1218.6	1219.0	1218.3
7.5°	1246.0	1245.7	1245.4	1246.1	1246.1	1245.7	1246.0	1245.0	1244.4	1245.4	1246.4
10°	1281.3	1281.0	1281.6	1281.6	1283.0	1282.3	1282.0	1283.0	1282.3	1281.6	1281.9
12.5°	1322.6	1321.6	1323.3	1323.4	1324.4	1324.4	1324.0	1324.4	1324.0	1323.0	1322.3
15°	1359.6	1358.2	1358.6	1361.3	1361.0	1361.6	1361.6	1361.0	1360.6	1360.3	1360.6
17.5°	1381.8	1381.1	1381.2	1382.5	1383.6	1383.2	1383.2	1383.2	1382.8	1383.2	1383.9
20°	1385.9	1386.0	1386.2	1387.6	1389.4	1388.4	1388.3	1389.0	1388.3	1389.0	1389.3
22.5°	1378.1	1378.8	1379.4	1381.2	1381.5	1381.5	1381.4	1381.8	1382.5	1382.6	1383.2
25°	1367.1	1367.8	1368.8	1370.2	1371.6	1371.6	1371.6	1372.2	1372.2	1372.6	1372.9
27.5°	1358.9	1359.6	1360.6	1362.0	1363.7	1363.7	1363.7	1364.4	1364.4	1364.7	1365.4
30°	1359.9	1358.6	1359.6	1360.2	1361.3	1361.3	1360.9	1361.3	1361.6	1361.6	1362.0
32.5°	1374.6	1371.6	1370.6	1370.2	1370.5	1369.5	1369.1	1368.5	1367.8	1367.8	1367.5
35°	1413.6	1408.8	1408.5	1405.8	1403.0	1400.3	1400.6	1398.6	1399.3	1397.6	1396.2
37.5°	1493.6	1488.2	1491.6	1485.8	1482.1	1479.3	1476.2	1472.1	1469.8	1472.8	1472.8
40°	1637.0	1633.2	1632.2	1633.2	1629.8	1631.5	1624.0	1621.9	1617.5	1620.6	1624.7
42.5°	1835.0	1832.6	1845.6	1848.0	1849.4	1851.4	1852.8	1841.5	1841.2	1838.8	1831.9
45°	2079.6	2094.0	2093.2	2109.0	2109.7	2104.9	2107.0	2101.8	2099.8	2092.2	2101.5
47.5°	2331.0	2358.3	2368.6	2372.0	2385.0	2388.0	2375.8	2371.6	2378.8	2366.6	2368.3
50°	2600.9	2630.2	2654.2	2670.2	2679.5	2680.2	2671.0	2668.9	2675.4	2652.2	2663.1
52.5°	2866.3	2910.8	2955.9	2979.8	2996.9	2998.3	3005.5	2996.9	3000.4	2994.9	3005.8
55°	3127.9	3204.9	3257.9	3304.8	3334.5	3360.2	3362.6	3371.8	3372.4	3383.8	3372.5
57.5°	3383.8	3467.6	3559.9	3643.0	3689.2	3718.2	3745.6	3782.9	3791.1	3786.7	3793.9
60°	3685.8	3815.4	3941.0	4036.7	4116.4	4192.6	4233.7	4292.2	4301.4	4326.8	4304.9
62.5°	4067.5	4255.6	4426.0	4554.9	4676.0	4794.6	4884.3	4929.4	4956.8	5009.8	4992.3
65°	4653.0	4878.8	5104.2	5288.9	5458.6	5599.8	5735.9	5800.9	5872.8	5948.0	5961.7
67.5°	5135.3	5414.8	5668.9	5894.0	6099.5	6256.5	6398.1	6510.6	6598.2	6653.6	6658.1
69°	5157.2	5447.6	5723.6	5965.0	6179.6	6346.4	6495.6	6620.8	6706.0	6762.7	6777.8
70°	5052.6	5349.8	5643.9	5887.8	6107.4	6278.0	6436.1	6555.4	6650.6	6708.4	6728.5
72.5°	4463.9	4781.3	5095.6	5309.4	5533.8	5737.0	5863.5	5985.2	6119.4	6136.8	6192.2
75°	3518.8	3785.6	4029.5	4193.0	4380.4	4562.8	4686.9	4719.0	4789.2	4877.5	4846.0
77.5°	2039.2	2121.4	2278.6	2319.0	2284.8	2364.2	2390.5	2334.4	2331.6	2383.3	2280.7
80°	451.8	426.2	458.3	434.4	435.0	435.8	428.6	425.8	431.0	425.8	418.7
82.5°	125.2	121.1	121.8	120.4	122.8	121.1	120.0	122.8	122.4	122.1	124.5
85°	60.2	59.6	58.5	58.2	56.8	55.0	52.3	52.4	53.7	51.6	52.7
87.5°	7.9	7.6	7.5	8.9	7.8	6.5	6.5	6.5	6.2	6.2	6.2
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)