

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: P836534

Luminaire Tested: **ARCH3-40-727-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7060 lumens
Efficiency: N/A
Efficacy: 161.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 43.6
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: 24 FT

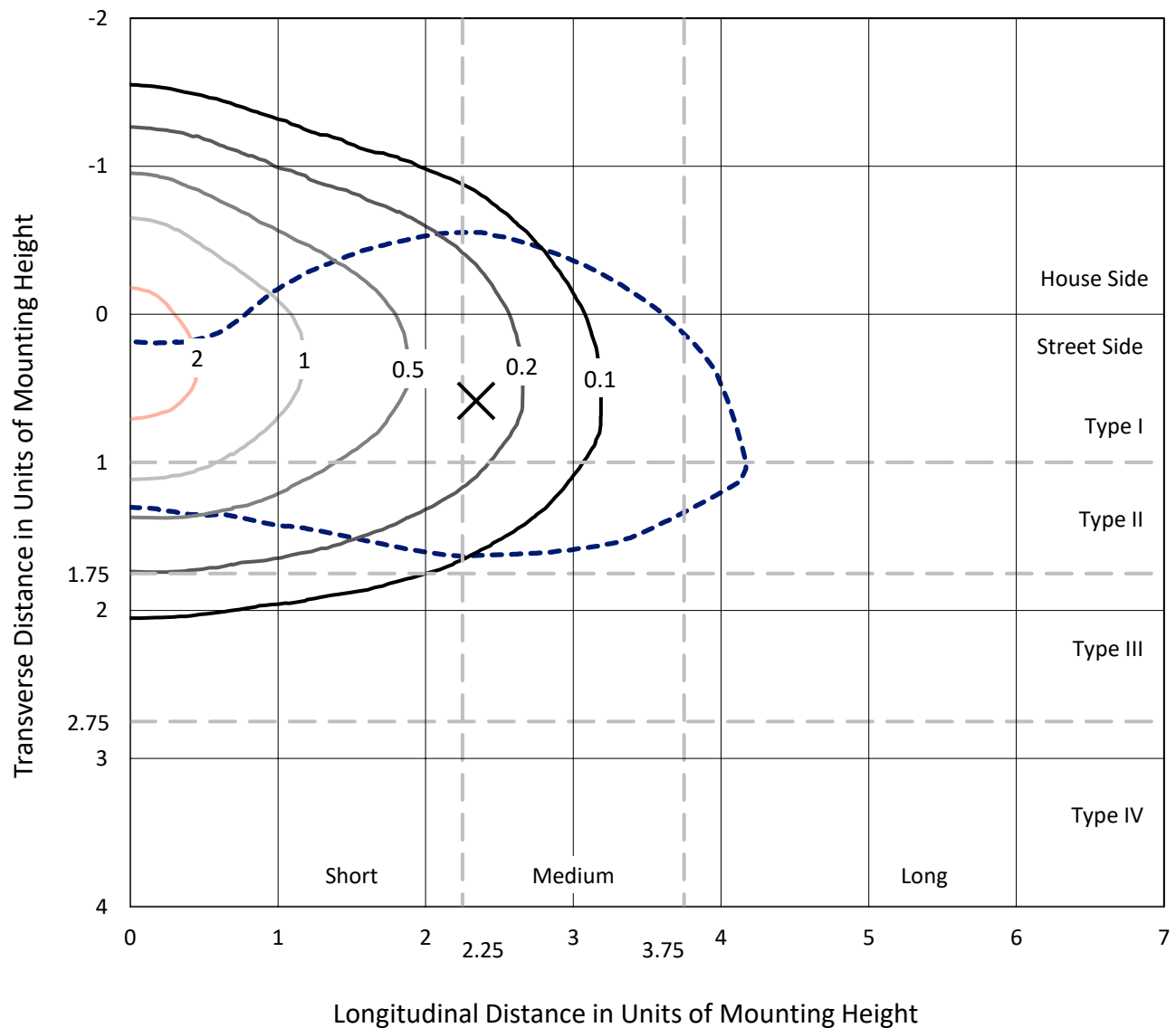


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Iso-Footcandle Lines of Horizontal Illumination

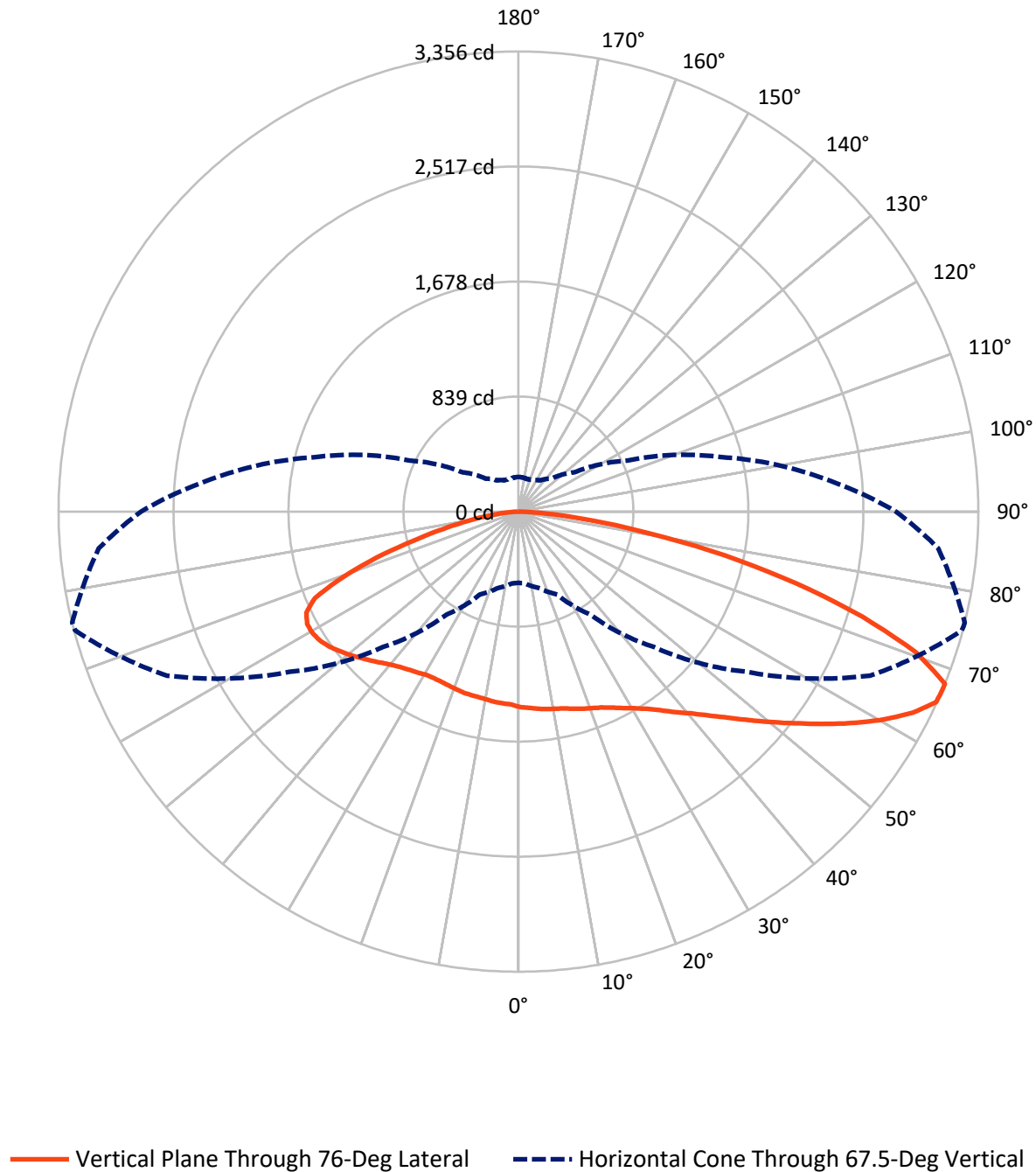
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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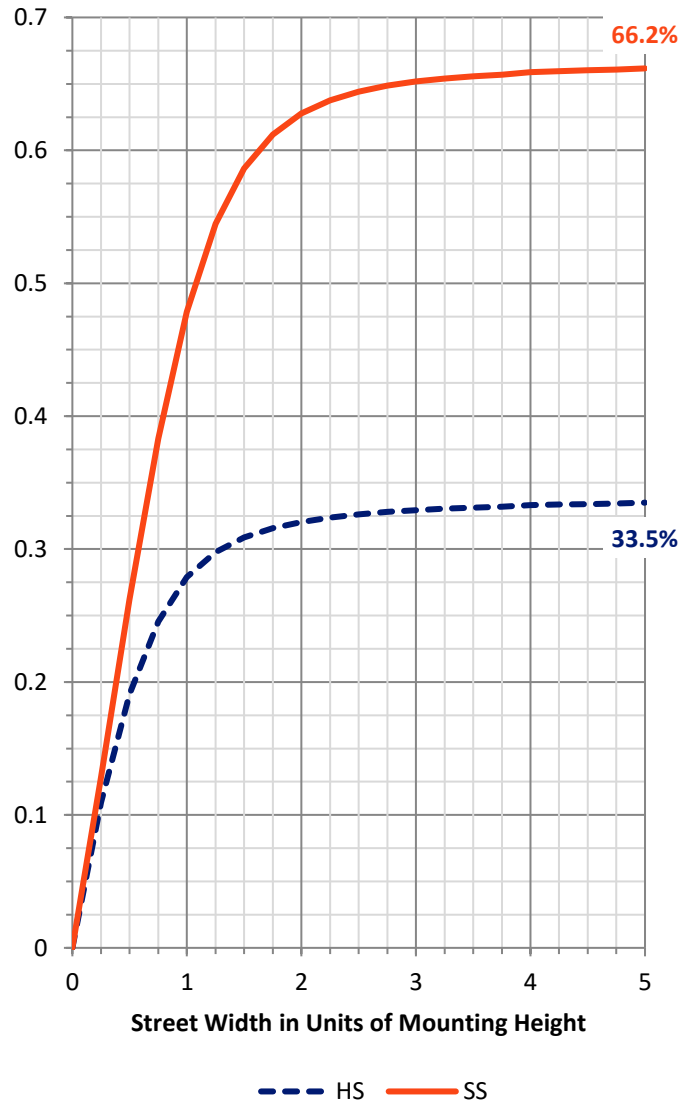
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2385.6	0.0	2385.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	4674.4	0.0	4674.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	7060.0	0.0	7060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	1.9
10°-20°	420.4	6.0
20°-30°	714.3	10.1
30°-40°	1016.3	14.4
40°-50°	1283.6	18.2
50°-60°	1389.7	19.7
60°-70°	1292.6	18.3
70°-80°	694.2	9.8
80°-90°	111.3	1.6
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°	7060.0	100.0
0°-180°	7060.0	100.0

Coefficient of Utilization



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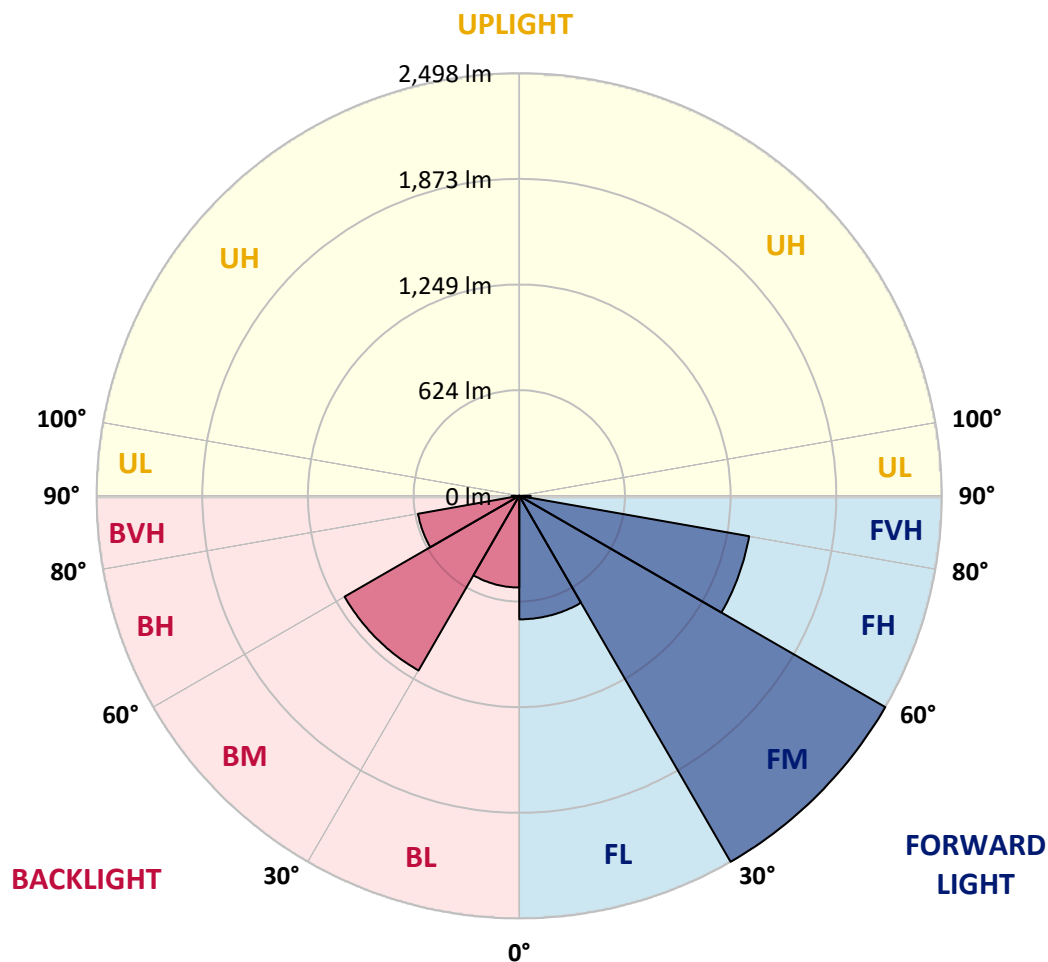
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	730.1	10.3			
FM	(30°-60°)	2497.6	35.4			
FH	(60°-80°)	1379.5	19.5			G1/1800
FVH	(80°-90°)	67.3	1.0			G1/100
BL	(0°-30°)	542.1	7.7	B2/1000		
BM	(30°-60°)	1192.1	16.9	B2/2500		
BH	(60°-80°)	607.4	8.6	B2/1000		G2/1000
BVH	(80°-90°)	44.0	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1
2.5°	1469.4	1466.7	1456.3	1457.6	1457.6	1456.3	1440.5	1434.0	1434.0	1432.7	1418.2
5°	1521.8	1517.9	1506.1	1503.4	1498.2	1491.6	1466.7	1452.3	1445.8	1444.5	1424.8
7.5°	1583.4	1578.2	1563.7	1555.9	1542.8	1525.7	1494.3	1472.0	1456.3	1454.9	1427.4
10°	1645.0	1639.8	1622.7	1608.3	1589.9	1562.4	1521.8	1489.0	1464.1	1461.5	1428.7
12.5°	1718.4	1713.2	1692.2	1673.8	1646.3	1609.6	1555.9	1511.3	1477.2	1473.3	1432.7
15°	1795.7	1787.9	1766.9	1745.9	1711.8	1664.7	1600.4	1541.5	1498.2	1491.6	1444.5
17.5°	1860.0	1849.5	1832.4	1811.5	1773.5	1718.4	1645.0	1571.6	1517.9	1512.6	1456.3
20°	1915.0	1907.2	1888.8	1869.1	1828.5	1768.2	1686.9	1601.7	1536.2	1529.7	1465.4
22.5°	1967.4	1957.0	1946.5	1932.1	1887.5	1820.6	1735.4	1638.4	1559.8	1551.9	1477.2
25°	2027.7	2015.9	2012.0	2004.1	1951.7	1883.6	1794.4	1684.3	1592.6	1583.4	1498.2
27.5°	2102.5	2089.3	2081.5	2081.5	2018.6	1947.8	1857.3	1738.1	1630.6	1622.7	1524.4
30°	2181.1	2165.4	2153.6	2153.6	2082.8	2012.0	1918.9	1791.8	1673.8	1664.7	1558.5
32.5°	2250.6	2234.8	2221.7	2220.4	2147.0	2076.2	1983.2	1850.8	1726.3	1714.5	1600.4
35°	2304.3	2289.9	2278.1	2280.7	2211.2	2141.8	2055.3	1929.4	1791.8	1778.7	1655.5
37.5°	2337.1	2331.8	2325.3	2334.5	2270.2	2204.7	2130.0	2005.5	1866.5	1854.7	1723.6
40°	2354.1	2350.2	2376.4	2388.2	2320.0	2261.1	2204.7	2084.1	1947.8	1934.7	1802.3
42.5°	2379.0	2411.8	2422.3	2419.7	2356.7	2304.3	2272.9	2169.3	2043.5	2031.7	1896.7
45°	2289.9	2282.0	2339.7	2371.2	2359.4	2331.8	2337.1	2271.5	2154.9	2143.1	2005.5
47.5°	2170.6	2160.1	2192.9	2270.2	2316.1	2342.3	2394.8	2377.7	2283.3	2272.9	2132.6
50°	1918.9	1933.4	2055.3	2158.8	2249.3	2339.7	2443.3	2491.8	2424.9	2414.4	2268.9
52.5°	1639.8	1654.2	1781.3	2019.9	2168.0	2320.0	2478.6	2605.8	2578.3	2566.5	2414.4
55°	1436.6	1468.0	1612.2	1785.3	2052.6	2258.4	2499.6	2722.4	2743.4	2732.9	2573.0
57.5°	1234.7	1258.3	1367.1	1520.5	1895.4	2151.0	2498.3	2831.2	2916.4	2905.9	2734.2
60°	997.5	1027.6	1114.1	1279.3	1685.6	2022.5	2461.6	2916.4	3082.9	3075.0	2890.2
62.5°	835.0	844.1	905.7	1048.6	1415.6	1860.0	2379.0	2962.3	3233.6	3228.4	3030.5
65°	672.4	673.7	730.1	849.4	1154.8	1658.1	2238.8	2945.3	3347.7	3350.3	3131.4
67.5°	519.1	525.6	576.7	667.2	917.5	1396.0	2038.2	2829.9	3349.0	3355.5	3073.7
70°	359.1	364.4	441.7	529.5	709.1	1112.8	1766.9	2524.5	3073.7	3079.0	2755.2
72.5°	253.0	255.6	338.2	423.4	554.5	838.9	1333.0	2088.0	2620.2	2624.1	2317.4
75°	188.7	191.4	238.6	321.1	424.7	580.7	911.0	1599.1	2093.3	2093.3	1829.8
77.5°	133.7	135.0	154.7	221.5	283.1	391.9	547.9	1047.3	1536.2	1538.8	1333.0
80°	90.4	91.8	100.9	149.4	177.0	212.3	297.5	549.2	968.6	972.6	846.7
82.5°	47.2	49.8	56.4	76.0	89.1	118.0	153.4	279.2	536.1	546.6	508.6
85°	18.4	18.4	21.0	24.9	32.8	45.9	70.8	106.2	242.5	250.4	224.1
87.5°	6.6	6.6	7.9	7.9	9.2	10.5	11.8	15.7	27.5	27.5	26.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1
2.5°	1413.0	1413.0	1406.4	1409.1	1407.8	1405.1	1402.5	1406.4	1402.5	1393.3	1392.0
5°	1415.6	1413.0	1402.5	1401.2	1397.3	1392.0	1385.5	1388.1	1381.5	1373.7	1372.4
7.5°	1416.9	1411.7	1397.3	1392.0	1384.2	1373.7	1363.2	1363.2	1354.0	1346.1	1344.8
10°	1414.3	1407.8	1388.1	1377.6	1363.2	1347.5	1333.0	1329.1	1318.6	1309.4	1309.4
12.5°	1415.6	1406.4	1381.5	1364.5	1344.8	1325.2	1306.8	1301.6	1292.4	1283.2	1281.9
15°	1423.5	1410.4	1378.9	1356.6	1327.8	1305.5	1285.9	1281.9	1274.1	1267.5	1267.5
17.5°	1431.3	1414.3	1375.0	1343.5	1308.1	1283.2	1264.9	1264.9	1259.6	1255.7	1255.7
20°	1435.3	1415.6	1367.1	1325.2	1284.5	1258.3	1241.3	1243.9	1242.6	1241.3	1241.3
22.5°	1444.5	1418.2	1360.6	1308.1	1259.6	1232.1	1216.4	1220.3	1219.0	1219.0	1220.3
25°	1458.9	1424.8	1355.3	1292.4	1236.0	1205.9	1188.9	1191.5	1191.5	1191.5	1191.5
27.5°	1478.5	1437.9	1354.0	1278.0	1212.5	1178.4	1157.4	1157.4	1152.2	1153.5	1154.8
30°	1508.7	1462.8	1356.6	1264.9	1187.5	1144.3	1119.4	1115.5	1114.1	1116.8	1118.1
32.5°	1545.4	1496.9	1372.4	1255.7	1161.3	1106.3	1074.8	1073.5	1069.6	1069.6	1069.6
35°	1591.3	1529.7	1386.8	1254.4	1135.1	1065.6	1031.6	1027.6	1018.5	1014.5	1014.5
37.5°	1650.2	1580.8	1403.8	1245.2	1112.8	1026.3	985.7	972.6	962.1	960.8	960.8
40°	1722.3	1638.4	1428.7	1234.7	1089.2	985.7	931.9	909.7	911.0	916.2	916.2
42.5°	1807.5	1709.2	1460.2	1229.5	1055.2	943.7	869.0	842.8	852.0	857.2	858.5
45°	1907.2	1793.1	1495.6	1222.9	1023.7	896.6	802.2	769.4	773.3	774.7	776.0
47.5°	2022.5	1886.2	1532.3	1217.7	988.3	837.6	728.8	685.5	684.2	676.4	679.0
50°	2143.1	1984.5	1570.3	1208.5	945.1	768.1	651.4	600.3	589.8	578.0	579.4
52.5°	2271.5	2085.4	1605.7	1194.1	891.3	697.3	578.0	523.0	502.0	488.9	491.5
55°	2413.1	2189.0	1639.8	1171.8	835.0	626.5	512.5	456.1	429.9	419.4	420.8
57.5°	2542.9	2288.6	1664.7	1144.3	773.3	562.3	454.8	399.8	382.7	381.4	382.7
60°	2668.7	2372.5	1675.1	1106.3	710.4	503.3	401.1	359.1	347.4	353.9	355.2
62.5°	2774.9	2426.2	1669.9	1055.2	646.2	447.0	357.8	327.7	319.8	332.9	334.2
65°	2836.5	2443.3	1633.2	981.8	576.7	391.9	317.2	284.4	280.5	288.4	292.3
67.5°	2755.2	2337.1	1533.6	880.8	499.4	340.8	277.9	251.7	245.1	251.7	251.7
70°	2441.9	2025.1	1297.7	720.9	414.2	291.0	241.2	222.8	217.6	222.8	221.5
72.5°	2034.3	1684.3	1022.4	562.3	326.4	245.1	209.7	192.7	187.4	182.2	179.6
75°	1578.2	1279.3	741.9	412.9	246.4	196.6	175.6	159.9	146.8	152.0	149.4
77.5°	1156.1	897.9	525.6	285.7	177.0	152.0	137.6	125.8	116.7	127.1	125.8
80°	744.5	580.7	351.3	191.4	121.9	106.2	100.9	94.4	103.5	135.0	137.6
82.5°	454.8	368.3	209.7	124.5	80.0	70.8	65.5	65.5	106.2	116.7	118.0
85°	203.2	195.3	114.0	64.2	44.6	40.6	36.7	47.2	43.3	31.5	32.8
87.5°	32.8	34.1	24.9	22.3	17.0	17.0	13.1	9.2	6.6	3.9	3.9
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)