

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: P799897

Luminaire Tested: **ARCH2-60-730-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

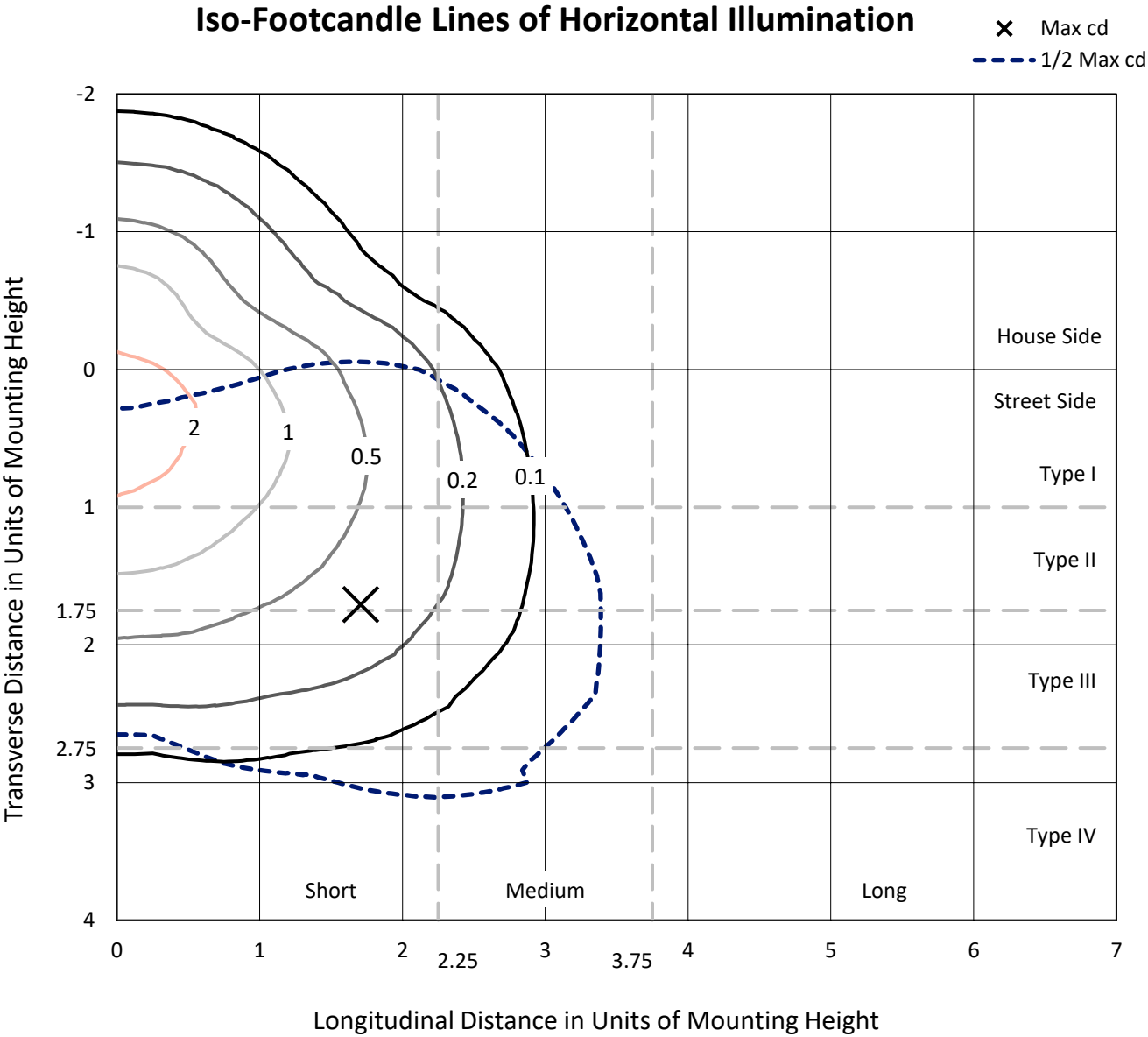
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8573 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.8
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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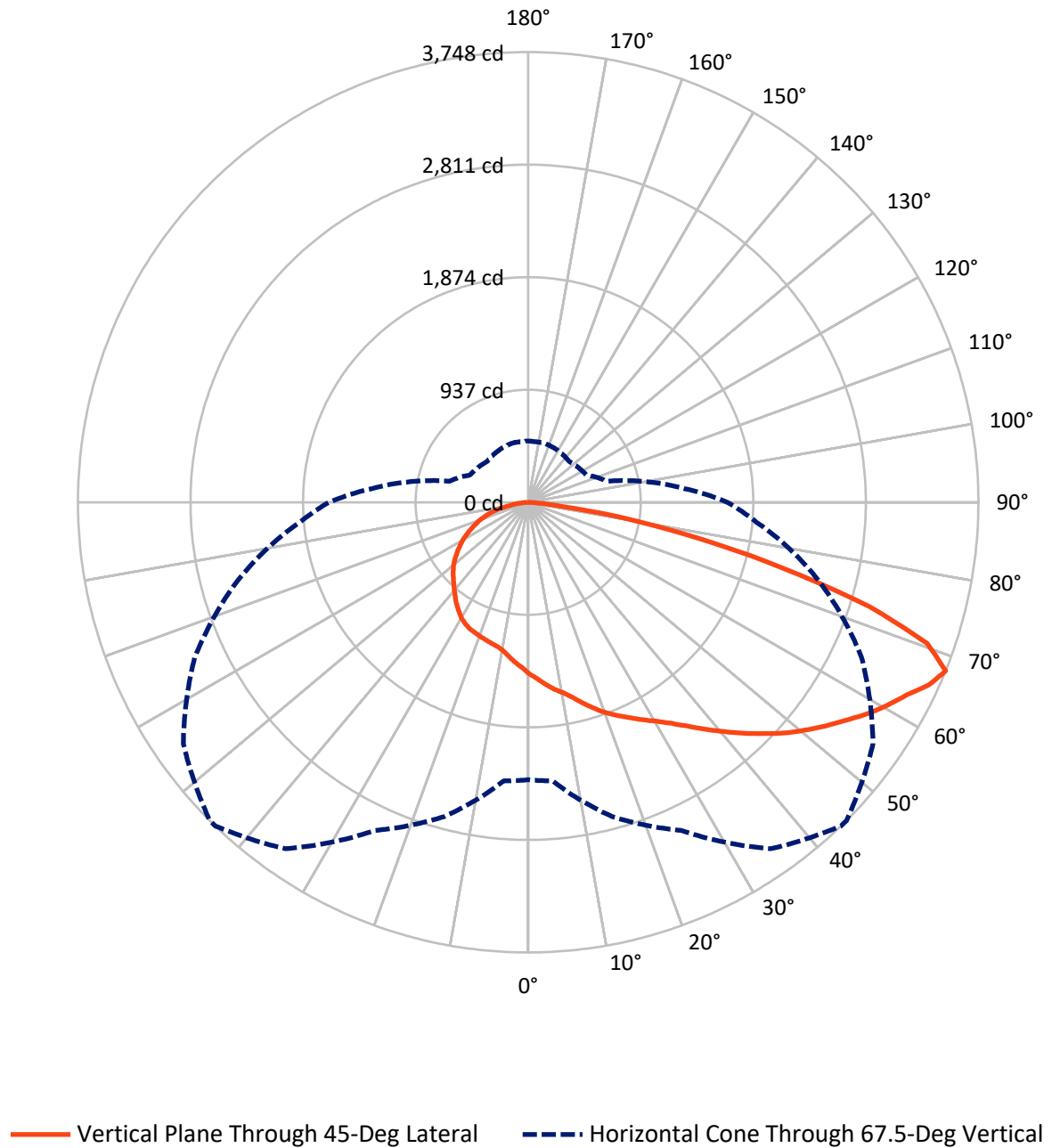


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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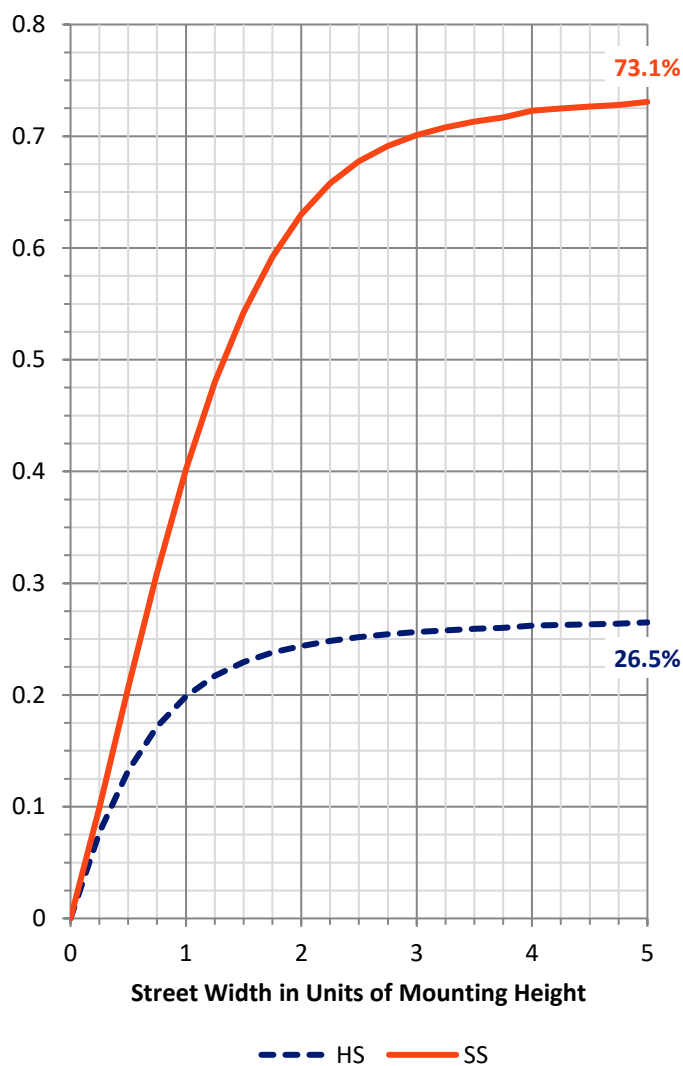
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2290.3	0.0	2290.3
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	6282.7	0.0	6282.7
	% Fixture	73.3	0.0	73.3
Total	Lumens	8573.0	0.0	8573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	1.6
10°-20°	422.9	4.9
20°-30°	730.0	8.5
30°-40°	1076.4	12.6
40°-50°	1458.4	17.0
50°-60°	1782.5	20.8
60°-70°	1838.4	21.4
70°-80°	1006.9	11.7
80°-90°	120.7	1.4
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°	8573.0	100.0
0°-180°	8573.0	100.0

Coefficient of Utilization



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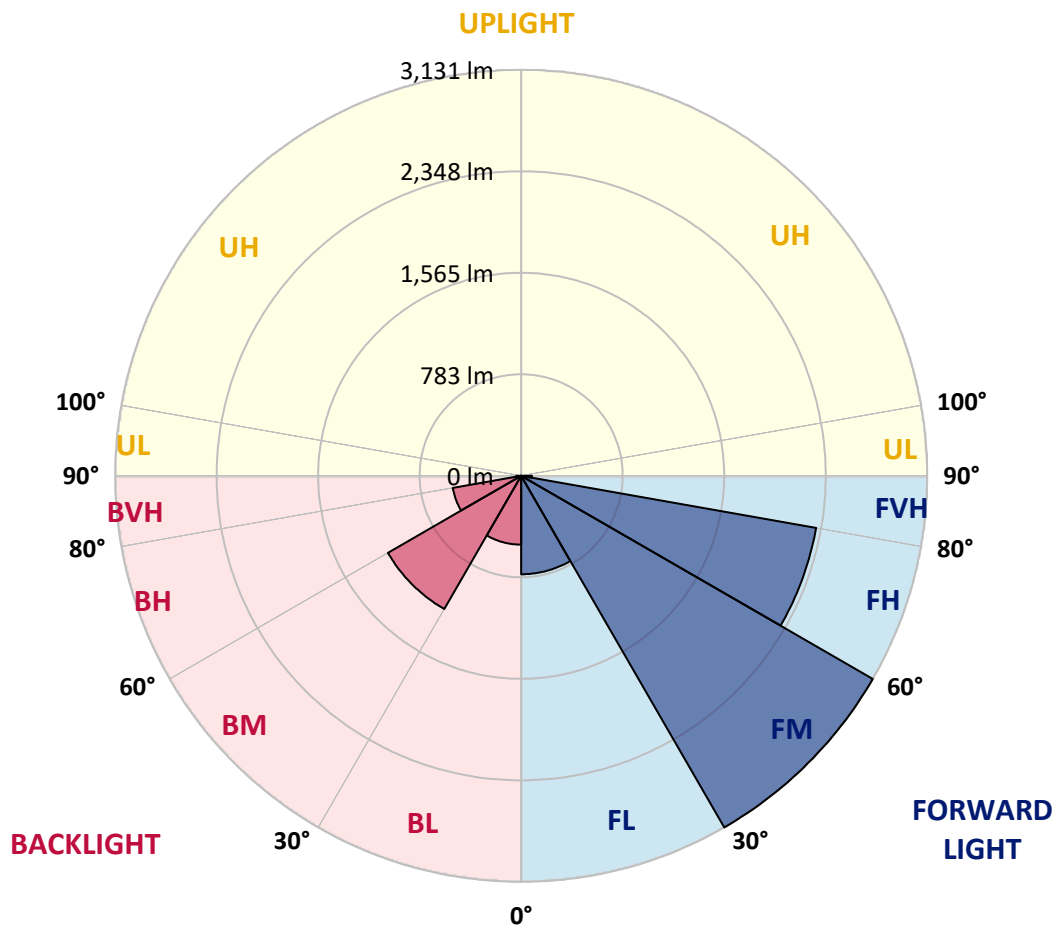
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	758.9	8.9			
FM	(30°-60°)	3130.9	36.5			
FH	(60°-80°)	2309.7	26.9			G2/5000
FVH	(80°-90°)	83.1	1.0			G1/100
BL	(0°-30°)	530.8	6.2	B2/1000		
BM	(30°-60°)	1186.3	13.8	B2/2500		
BH	(60°-80°)	535.6	6.2	B2/1000		G2/1000
BVH	(80°-90°)	37.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1429.8	1429.8	1429.8	1429.8	1429.8	1429.8	1429.8	1429.8	1429.8	1429.8	1429.8
2.5°	1492.4	1491.1	1493.7	1484.6	1472.9	1471.6	1471.6	1463.7	1454.6	1436.3	1422.0
5°	1562.9	1560.3	1561.6	1548.5	1532.9	1525.0	1523.7	1506.8	1485.9	1457.2	1431.1
7.5°	1628.1	1625.5	1624.2	1609.8	1586.4	1573.3	1572.0	1547.2	1522.4	1478.1	1440.3
10°	1689.4	1686.8	1684.2	1664.6	1635.9	1616.4	1613.8	1582.4	1551.1	1496.3	1448.1
12.5°	1767.7	1762.5	1759.9	1736.4	1694.6	1673.8	1669.9	1628.1	1589.0	1522.4	1463.7
15°	1849.9	1846.0	1842.1	1819.9	1772.9	1745.5	1739.0	1686.8	1633.3	1556.4	1487.2
17.5°	1911.2	1907.3	1907.3	1887.7	1844.7	1813.4	1808.1	1745.5	1679.0	1587.7	1505.5
20°	1949.0	1945.1	1949.0	1937.3	1904.7	1878.6	1873.4	1804.2	1724.6	1616.4	1521.1
22.5°	1976.4	1972.5	1979.0	1973.8	1950.3	1934.7	1930.8	1862.9	1771.6	1646.4	1536.8
25°	2024.7	2024.7	2024.7	2015.6	1993.4	1988.2	1988.2	1929.5	1831.6	1685.5	1560.3
27.5°	2121.2	2116.0	2109.5	2083.4	2045.6	2044.3	2052.1	1997.3	1900.8	1736.4	1589.0
30°	2263.4	2260.8	2236.0	2181.2	2117.3	2110.8	2116.0	2070.4	1975.1	1789.9	1621.6
32.5°	2447.4	2438.2	2387.4	2305.2	2213.9	2183.9	2194.3	2146.0	2053.4	1844.7	1652.9
35°	2577.8	2580.4	2543.9	2469.6	2361.3	2281.7	2289.5	2230.8	2138.2	1906.0	1692.0
37.5°	2727.9	2737.0	2682.2	2626.1	2525.7	2390.0	2397.8	2318.2	2223.0	1983.0	1733.8
40°	2935.3	2917.0	2824.4	2757.9	2647.0	2503.5	2510.0	2416.1	2320.8	2056.0	1782.0
42.5°	3108.8	3076.2	2964.0	2879.2	2746.1	2623.5	2630.0	2521.7	2420.0	2136.9	1835.5
45°	3358.0	3268.0	3106.2	3064.4	2847.9	2740.9	2747.4	2633.9	2524.4	2223.0	1892.9
47.5°	3502.8	3359.3	3256.2	3234.0	2960.1	2862.2	2870.1	2752.7	2636.5	2320.8	1952.9
50°	3493.7	3401.0	3371.0	3316.2	3059.2	2975.7	2983.6	2875.3	2750.0	2417.4	2010.3
52.5°	3433.6	3450.6	3434.9	3343.6	3158.4	3085.3	3094.5	2996.6	2866.2	2507.4	2063.8
55°	3526.3	3538.0	3508.0	3388.0	3268.0	3194.9	3205.3	3124.5	2981.0	2587.0	2109.5
57.5°	3637.2	3595.4	3565.4	3466.3	3381.5	3313.6	3325.4	3254.9	3080.1	2650.9	2144.7
60°	3631.9	3544.5	3574.5	3471.5	3458.4	3423.2	3433.6	3361.9	3155.8	2697.9	2159.1
62.5°	3364.5	3317.5	3468.9	3433.6	3521.0	3521.0	3534.1	3427.1	3201.4	2717.4	2151.2
65°	2900.1	2902.7	3168.8	3314.9	3595.4	3655.4	3665.9	3467.6	3175.3	2660.0	2078.2
67.5°	2310.4	2327.4	2709.6	3013.6	3521.0	3746.7	3748.0	3504.1	3063.1	2498.3	1908.6
70°	1690.7	1703.8	2155.2	2524.4	3170.1	3544.5	3523.7	3401.0	2819.2	2216.5	1643.8
72.5°	1142.8	1154.5	1619.0	1938.6	2601.3	3018.8	2973.1	3005.7	2403.0	1821.2	1321.5
75°	768.4	782.7	1151.9	1386.8	1913.8	2292.1	2190.4	2276.5	1859.0	1378.9	964.1
77.5°	484.0	493.1	731.9	909.3	1307.2	1560.3	1458.5	1459.8	1071.1	742.3	517.9
80°	307.9	310.5	443.6	524.4	756.7	938.0	829.7	674.5	482.7	394.0	309.2
82.5°	178.7	174.8	264.8	296.1	360.1	356.1	294.8	279.2	211.3	197.0	157.9
85°	71.8	66.5	116.1	108.3	109.6	116.1	86.1	86.1	69.1	53.5	39.1
87.5°	14.4	14.4	15.7	14.4	14.4	15.7	11.7	11.7	10.4	10.4	10.4
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°	1429.8	1429.8	1429.8	1429.8	1429.8	1429.8	1429.8	1429.8	1429.8	1429.8	1429.8
2.5°	1419.4	1416.8	1410.2	1393.3	1384.2	1378.9	1371.1	1368.5	1367.2	1368.5	1372.4
5°	1423.3	1414.2	1395.9	1368.5	1350.2	1338.5	1325.4	1320.2	1316.3	1316.3	1320.2
7.5°	1425.9	1411.5	1380.2	1339.8	1313.7	1295.4	1279.8	1273.3	1272.0	1275.9	1277.2
10°	1427.2	1406.3	1362.0	1311.1	1277.2	1253.7	1238.0	1234.1	1238.0	1245.9	1247.2
12.5°	1436.3	1407.6	1351.5	1291.5	1251.1	1227.6	1215.9	1215.9	1226.3	1240.7	1242.0
15°	1452.0	1416.8	1346.3	1275.9	1234.1	1213.3	1209.3	1215.9	1231.5	1253.7	1256.3
17.5°	1463.7	1422.0	1334.6	1255.0	1211.9	1198.9	1205.4	1221.1	1243.3	1273.3	1275.9
20°	1471.6	1422.0	1317.6	1230.2	1189.8	1187.2	1205.4	1230.2	1253.7	1288.9	1292.8
22.5°	1479.4	1419.4	1298.1	1200.2	1165.0	1172.8	1206.7	1238.0	1261.5	1299.4	1305.9
25°	1493.7	1423.3	1278.5	1170.2	1138.9	1161.1	1205.4	1243.3	1268.0	1307.2	1317.6
27.5°	1513.3	1432.4	1264.1	1142.8	1112.8	1142.8	1196.3	1242.0	1268.0	1305.9	1317.6
30°	1534.2	1442.9	1247.2	1112.8	1082.8	1116.7	1176.7	1227.6	1257.6	1292.8	1307.2
32.5°	1556.4	1454.6	1232.8	1080.2	1046.3	1081.5	1148.0	1205.4	1238.0	1270.7	1286.3
35°	1586.4	1475.5	1225.0	1054.1	1013.7	1045.0	1111.5	1176.7	1211.9	1242.0	1260.2
37.5°	1622.9	1501.6	1221.1	1028.0	978.4	1004.5	1072.4	1141.5	1179.3	1204.1	1221.1
40°	1664.6	1534.2	1219.8	1003.2	943.2	962.8	1031.9	1101.1	1137.6	1157.2	1171.5
42.5°	1711.6	1570.7	1217.2	978.4	908.0	923.6	992.8	1060.6	1091.9	1108.9	1121.9
45°	1761.2	1607.2	1211.9	948.4	870.2	888.4	952.3	1012.3	1045.0	1059.3	1073.7
47.5°	1810.7	1643.8	1201.5	914.5	836.2	853.2	909.3	961.5	987.6	1000.6	1015.0
50°	1859.0	1676.4	1176.7	875.4	801.0	816.7	859.7	894.9	914.5	924.9	939.3
52.5°	1902.1	1698.6	1141.5	829.7	765.8	773.6	802.3	832.3	848.0	849.3	862.3
55°	1938.6	1710.3	1090.6	782.7	728.0	729.3	744.9	768.4	774.9	769.7	778.8
57.5°	1959.5	1703.8	1034.5	734.5	688.8	683.6	695.3	707.1	708.4	695.3	704.5
60°	1964.7	1673.8	961.5	686.2	649.7	635.3	639.2	636.6	634.0	628.8	636.6
62.5°	1938.6	1609.8	880.6	639.2	607.9	585.8	584.4	583.1	587.1	588.4	589.7
65°	1843.4	1489.8	784.0	591.0	563.6	533.6	532.3	547.9	553.1	545.3	547.9
67.5°	1659.4	1305.9	678.4	534.9	507.5	481.4	491.8	501.0	510.1	507.5	510.1
70°	1398.5	1072.4	581.8	472.3	446.2	431.8	443.6	451.4	452.7	450.1	452.7
72.5°	1099.8	837.5	491.8	408.3	384.8	378.3	392.7	399.2	410.9	416.2	417.5
75°	794.5	618.4	403.1	339.2	319.6	319.6	332.7	344.4	354.8	348.3	344.4
77.5°	443.6	369.2	289.6	233.5	237.4	255.7	260.9	274.0	284.4	283.1	280.5
80°	268.7	230.9	195.7	151.3	150.0	164.4	198.3	220.5	225.7	214.0	212.6
82.5°	139.6	121.3	104.4	84.8	93.9	109.6	114.8	138.3	152.6	147.4	153.9
85°	35.2	33.9	37.8	39.1	48.3	53.5	58.7	69.1	45.7	22.2	22.2
87.5°	10.4	10.4	13.0	13.0	17.0	20.9	19.6	19.6	10.4	1.3	0.0
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)