

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: P799683

Luminaire Tested: **ARCH2-40-750-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

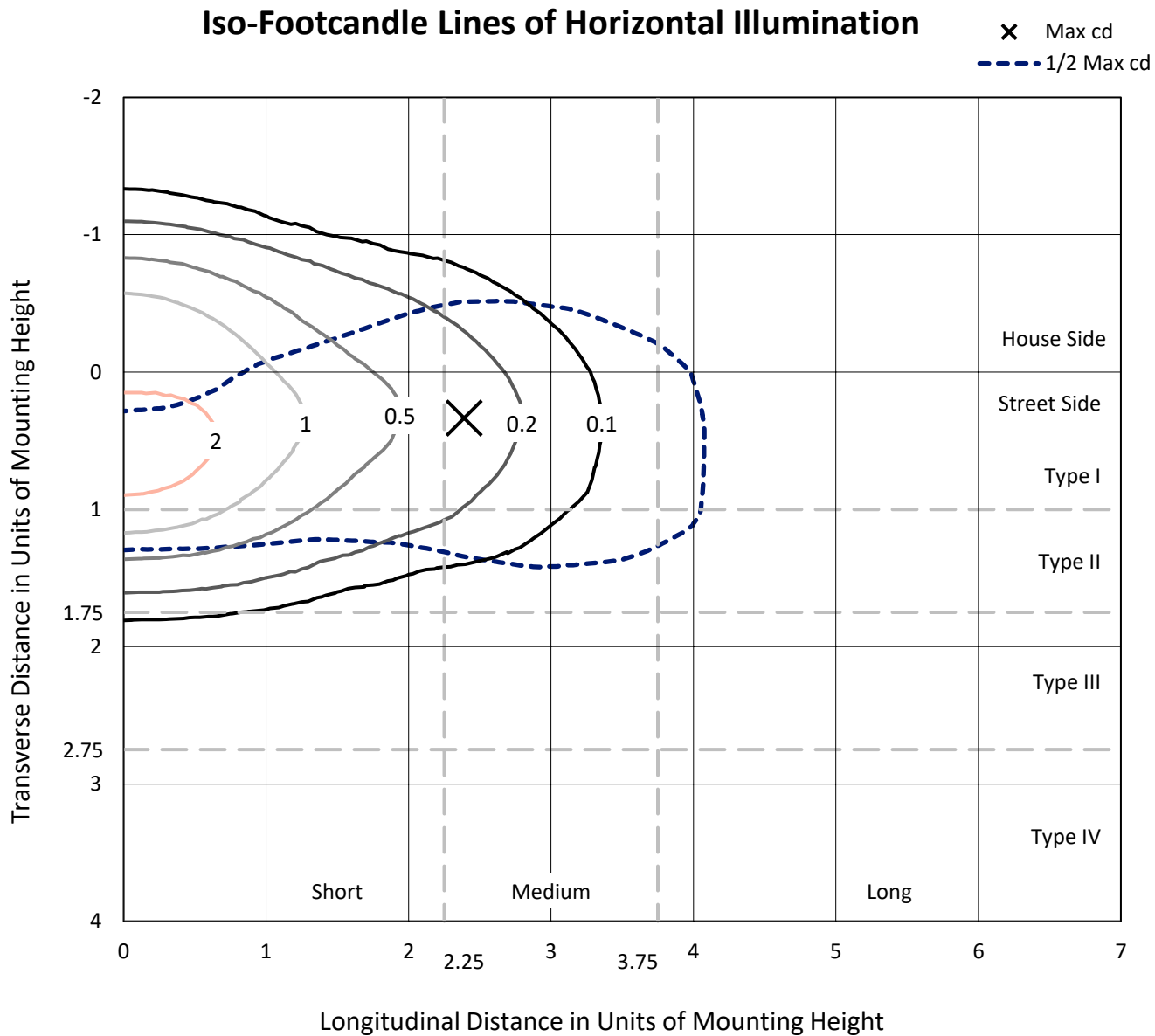
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6787 lumens
Efficiency: N/A
Efficacy: 153.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 44.1
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



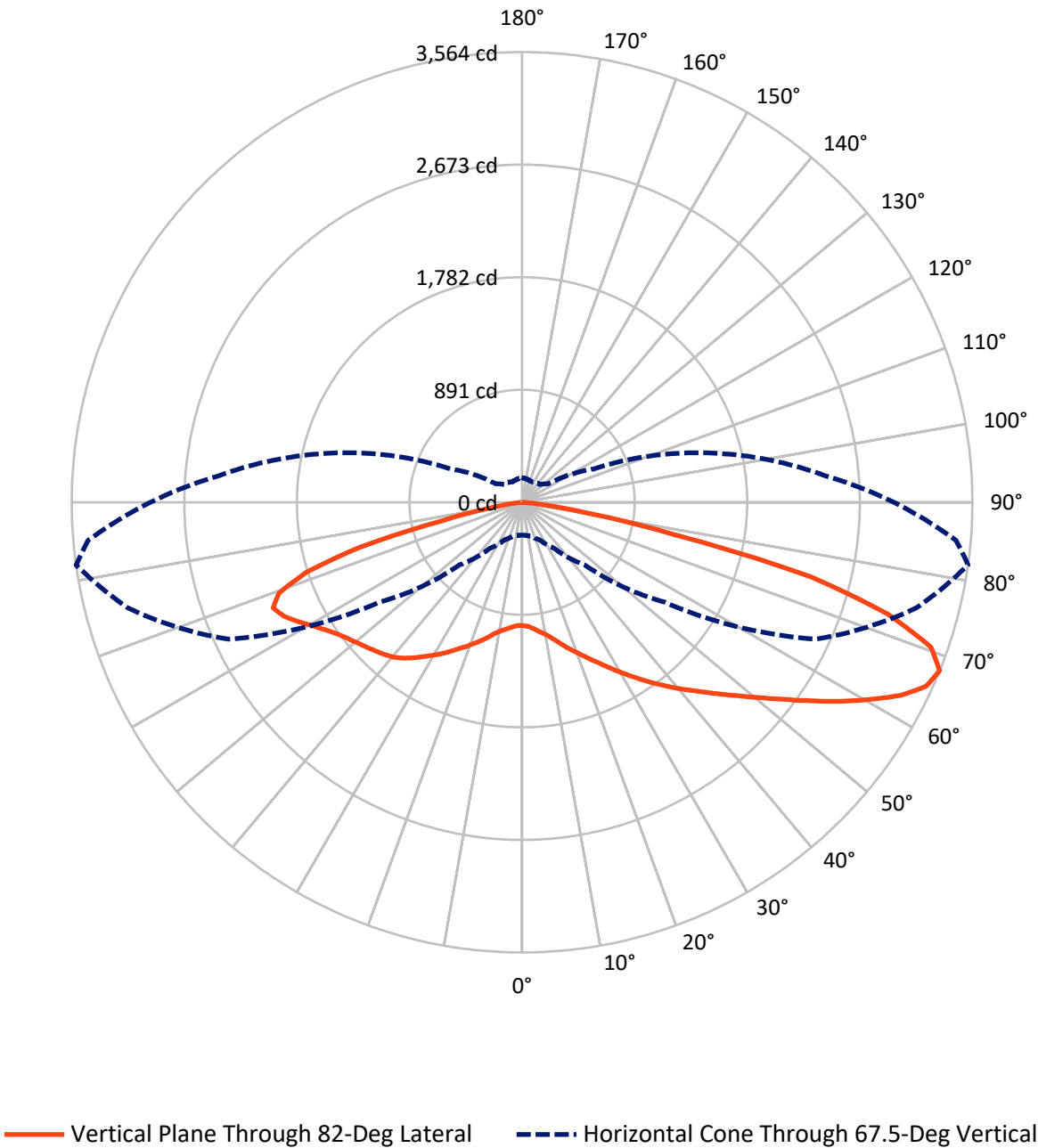
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Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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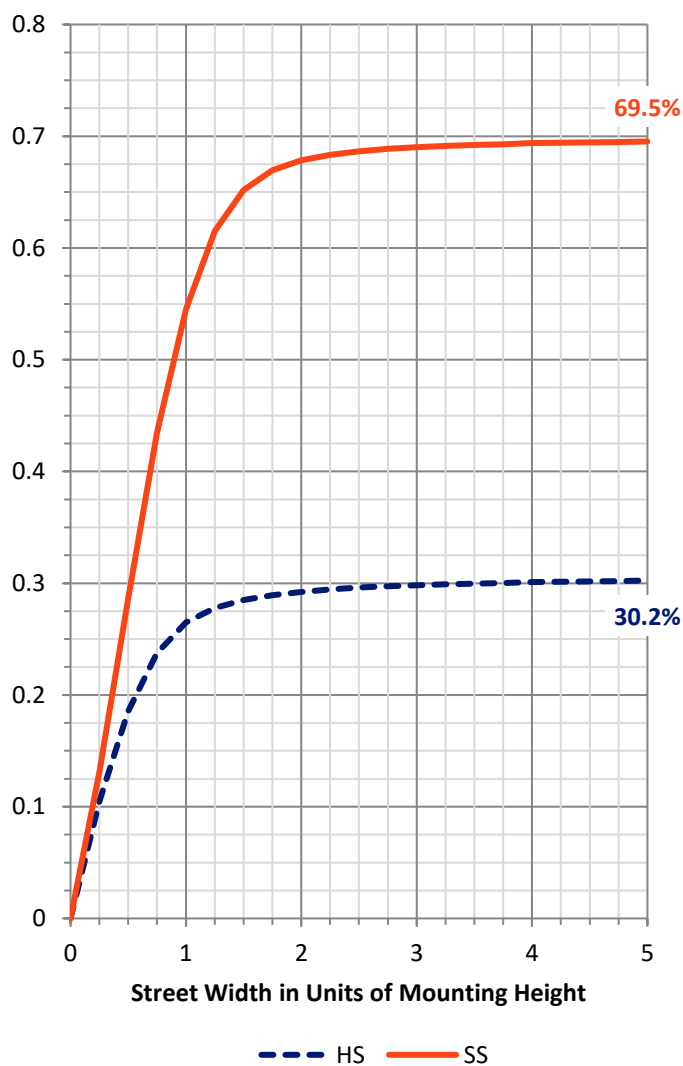
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2066.9	0.0	2066.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4720.1	0.0	4720.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	6787.0	0.0	6787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	1.5
10°-20°	363.2	5.4
20°-30°	729.9	10.8
30°-40°	1146.6	16.9
40°-50°	1396.8	20.6
50°-60°	1319.8	19.4
60°-70°	1089.8	16.1
70°-80°	593.5	8.7
80°-90°	46.7	0.7
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°	6787.0	100.0
0°-180°	6787.0	100.0

Coefficient of Utilization



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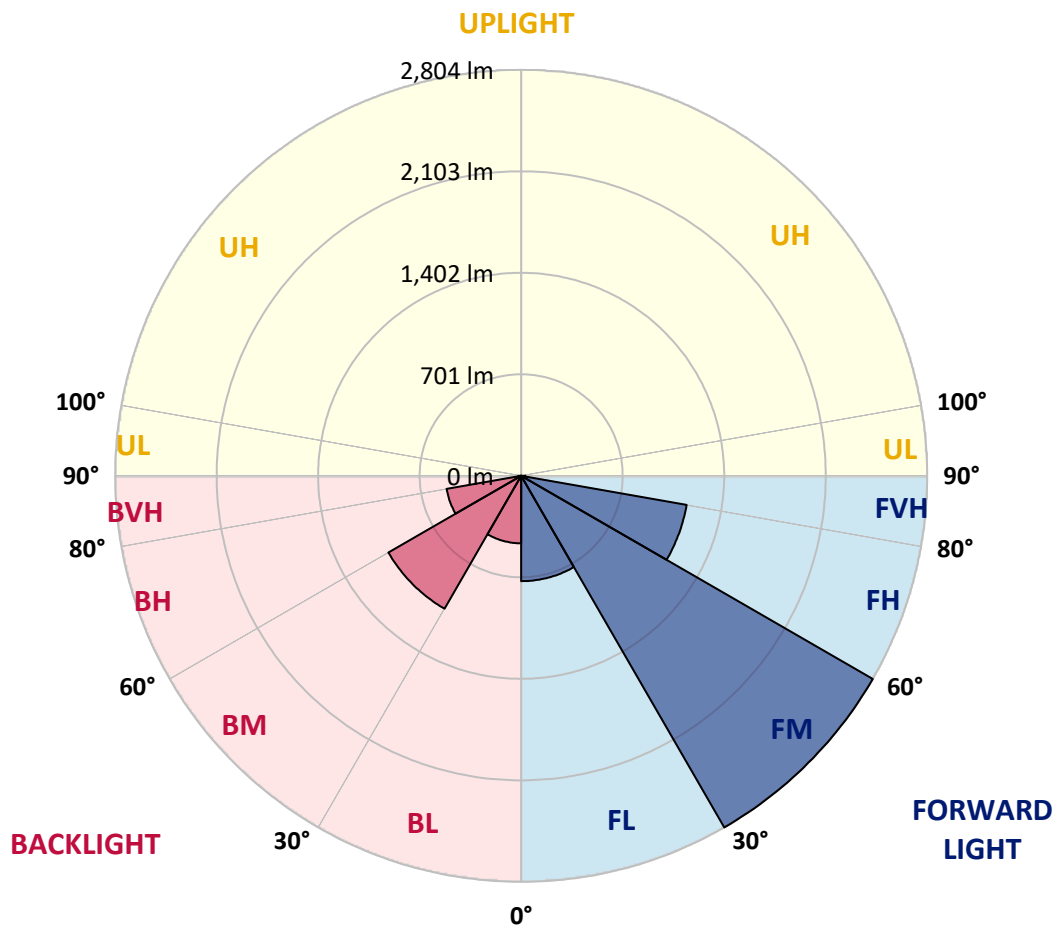
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	727.8	10.7			
FM	(30°-60°)	2804.0	41.3			
FH	(60°-80°)	1160.1	17.1			G1/1800
FVH	(80°-90°)	28.1	0.4			G1/100
BL	(0°-30°)	466.1	6.9	B1/500		
BM	(30°-60°)	1059.1	15.6	B2/2500		
BH	(60°-80°)	523.1	7.7	B2/1000		G2/1000
BVH	(80°-90°)	18.5	0.3			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°	82°	85°
0°	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6
2.5°	1020.0	1020.0	1027.9	1027.9	1021.0	1010.1	1007.2	995.3	984.5	984.5	985.5
5°	1117.5	1116.6	1122.5	1114.6	1097.8	1076.1	1061.4	1035.7	1014.1	1007.2	1006.2
7.5°	1236.8	1235.8	1238.8	1225.9	1194.4	1158.9	1129.4	1088.0	1052.5	1037.7	1033.8
10°	1369.8	1368.8	1365.9	1344.2	1301.8	1246.6	1202.3	1145.1	1091.9	1068.3	1063.3
12.5°	1522.6	1520.6	1513.7	1482.2	1424.0	1353.1	1289.0	1215.1	1144.1	1111.6	1100.8
15°	1693.1	1690.1	1677.3	1638.9	1561.0	1471.3	1388.5	1293.9	1207.2	1164.8	1150.1
17.5°	1872.4	1872.4	1852.7	1795.5	1708.8	1597.5	1495.0	1374.7	1273.2	1221.0	1203.3
20°	2054.7	2053.7	2029.1	1960.1	1857.6	1729.5	1599.4	1467.4	1341.2	1278.2	1256.5
22.5°	2246.9	2244.9	2214.4	2135.5	2013.3	1868.5	1716.7	1559.0	1416.1	1340.3	1312.7
25°	2467.6	2464.7	2427.2	2330.7	2185.8	2022.2	1848.8	1666.5	1501.9	1409.2	1376.7
27.5°	2702.2	2698.3	2653.9	2541.6	2382.9	2185.8	1994.6	1790.6	1596.5	1486.1	1449.6
30°	2911.1	2908.2	2859.9	2744.6	2562.3	2348.4	2133.6	1914.8	1696.0	1567.9	1522.6
32.5°	3068.8	3068.8	3025.4	2912.1	2722.9	2504.1	2273.5	2032.1	1799.5	1655.6	1602.4
35°	3164.4	3167.3	3129.9	3039.2	2860.9	2650.9	2418.4	2170.0	1909.9	1749.2	1692.1
37.5°	3178.2	3188.0	3166.4	3105.3	2956.4	2773.1	2560.3	2303.1	2024.2	1843.8	1779.8
40°	3114.1	3121.0	3122.0	3098.4	2995.9	2860.9	2685.4	2444.0	2145.4	1943.4	1869.5
42.5°	2986.0	2990.9	2999.8	3006.7	2967.3	2899.3	2781.0	2575.1	2274.5	2044.9	1958.2
45°	2820.5	2819.5	2834.2	2863.8	2861.8	2877.6	2834.2	2694.3	2408.5	2160.2	2056.7
47.5°	2573.1	2568.2	2620.4	2687.4	2720.9	2794.8	2835.2	2787.9	2554.4	2287.3	2169.0
50°	2185.8	2180.9	2295.2	2452.9	2551.4	2663.8	2781.0	2844.1	2707.1	2430.2	2291.2
52.5°	1714.7	1709.8	1854.7	2130.6	2345.4	2509.0	2671.6	2856.9	2852.0	2589.8	2429.2
55°	1275.2	1271.3	1412.2	1710.8	2058.7	2329.7	2537.6	2823.4	2988.0	2773.1	2596.7
57.5°	898.8	896.8	1019.0	1266.3	1690.1	2110.9	2408.5	2758.4	3113.1	2972.2	2786.0
60°	630.7	627.8	716.4	907.6	1278.2	1780.8	2280.4	2671.6	3206.8	3168.3	2987.0
62.5°	424.7	422.8	485.8	645.5	907.6	1370.8	2086.3	2613.5	3260.0	3365.4	3190.0
65°	322.3	321.3	349.8	437.6	642.5	984.5	1777.8	2606.6	3266.9	3513.2	3362.5
67.5°	260.2	261.2	276.9	327.2	444.5	699.7	1378.7	2563.2	3230.4	3563.5	3446.2
70°	212.9	212.9	219.8	253.3	328.2	472.0	962.8	2366.1	3128.9	3432.4	3346.7
72.5°	162.6	163.6	185.3	205.0	247.4	331.1	616.9	1958.2	2889.4	3026.4	2961.4
75°	129.1	128.1	140.9	168.5	192.2	236.5	378.4	1404.3	2458.8	2365.2	2323.8
77.5°	92.6	91.6	101.5	125.2	145.9	167.5	225.7	708.6	1337.3	1228.9	1198.3
80°	63.1	61.1	70.0	86.7	96.6	98.5	110.4	272.0	583.4	549.9	543.0
82.5°	32.5	32.5	37.4	49.3	50.3	51.2	49.3	87.7	193.2	180.3	172.5
85°	12.8	12.8	13.8	16.8	16.8	17.7	17.7	22.7	20.7	19.7	18.7
87.5°	1.0	1.0	2.0	2.0	3.0	3.0	3.0	3.9	4.9	4.9	4.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6
2.5°	983.5	979.6	966.8	963.8	961.8	958.9	959.9	953.0	950.0	951.0	947.0
5°	1001.3	994.4	978.6	971.7	969.7	966.8	969.7	964.8	959.9	961.8	959.9
7.5°	1025.9	1016.0	996.3	989.4	988.4	985.5	989.4	985.5	981.5	983.5	979.6
10°	1051.5	1038.7	1017.0	1010.1	1010.1	1009.1	1013.1	1007.2	1003.2	1004.2	1002.2
12.5°	1089.0	1072.2	1048.6	1042.6	1039.7	1042.6	1043.6	1035.7	1028.8	1029.8	1026.9
15°	1134.3	1115.6	1089.9	1081.1	1079.1	1078.1	1074.2	1064.3	1055.5	1054.5	1051.5
17.5°	1183.6	1159.9	1129.4	1120.5	1111.6	1108.7	1098.8	1086.0	1072.2	1072.2	1068.3
20°	1230.9	1204.3	1167.8	1155.0	1142.2	1130.3	1113.6	1092.9	1075.2	1072.2	1068.3
22.5°	1282.1	1250.6	1208.2	1189.5	1166.8	1143.2	1114.6	1087.0	1064.3	1059.4	1056.4
25°	1339.3	1299.9	1249.6	1222.0	1185.5	1149.1	1106.7	1071.2	1044.6	1036.7	1034.8
27.5°	1402.3	1355.0	1293.9	1253.5	1200.3	1143.2	1089.0	1046.6	1014.1	1004.2	1001.3
30°	1466.4	1410.2	1334.3	1275.2	1200.3	1124.4	1056.4	1007.2	969.7	955.9	953.9
32.5°	1530.5	1467.4	1370.8	1287.0	1188.5	1092.9	1014.1	955.9	913.5	896.8	900.7
35°	1607.3	1530.5	1404.3	1292.0	1168.8	1054.5	965.8	897.8	854.4	839.6	842.6
37.5°	1687.1	1593.5	1430.9	1288.0	1141.2	1011.1	911.6	845.5	791.3	765.7	768.7
40°	1756.1	1650.7	1449.6	1274.2	1105.7	961.8	858.4	771.6	696.7	672.1	669.1
42.5°	1821.2	1693.1	1459.5	1253.5	1065.3	904.7	782.5	671.1	596.2	565.7	566.7
45°	1889.2	1734.4	1455.6	1225.9	1015.0	837.7	684.9	572.6	506.5	478.9	479.9
47.5°	1967.0	1778.8	1451.6	1196.4	953.9	750.9	591.3	485.8	428.7	409.0	407.0
50°	2049.8	1828.1	1446.7	1159.9	885.9	654.4	498.7	405.0	356.7	343.9	341.0
52.5°	2143.4	1881.3	1443.7	1116.6	804.2	551.9	415.9	334.1	301.6	292.7	291.7
55°	2255.8	1943.4	1447.7	1064.3	705.6	455.3	345.9	287.8	266.1	261.2	260.2
57.5°	2392.8	2023.2	1459.5	1003.2	602.1	371.5	294.7	259.2	245.4	241.4	241.4
60°	2541.6	2113.9	1481.2	934.2	498.7	306.5	261.2	236.5	230.6	235.5	235.5
62.5°	2702.2	2220.3	1519.6	850.5	402.1	259.2	234.5	217.8	213.8	223.7	224.7
65°	2851.0	2323.8	1544.3	750.0	319.3	224.7	213.8	199.1	201.0	210.9	209.9
67.5°	2942.7	2409.5	1509.8	623.8	253.3	199.1	192.2	179.4	184.3	192.2	193.2
70°	2886.5	2361.2	1339.3	471.1	198.1	173.4	168.5	160.6	164.6	174.4	178.4
72.5°	2611.5	2114.8	1041.7	318.3	159.6	145.9	147.8	143.9	148.8	157.7	166.5
75°	2119.8	1598.5	698.7	204.0	126.1	124.2	127.1	124.2	126.1	135.0	139.9
77.5°	1106.7	779.5	347.9	127.1	93.6	96.6	101.5	102.5	108.4	110.4	112.3
80°	516.4	350.8	144.9	71.0	62.1	68.0	77.9	78.8	80.8	83.8	84.8
82.5°	168.5	105.4	67.0	38.4	35.5	38.4	50.3	60.1	61.1	67.0	67.0
85°	17.7	10.8	14.8	15.8	13.8	16.8	22.7	21.7	9.9	5.9	5.9
87.5°	4.9	3.9	4.9	4.9	3.9	3.9	3.0	1.0	0.0	0.0	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)