

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: P798867

Luminaire Tested: **ARCH1-40-730-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798867
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: ARCH1-40-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

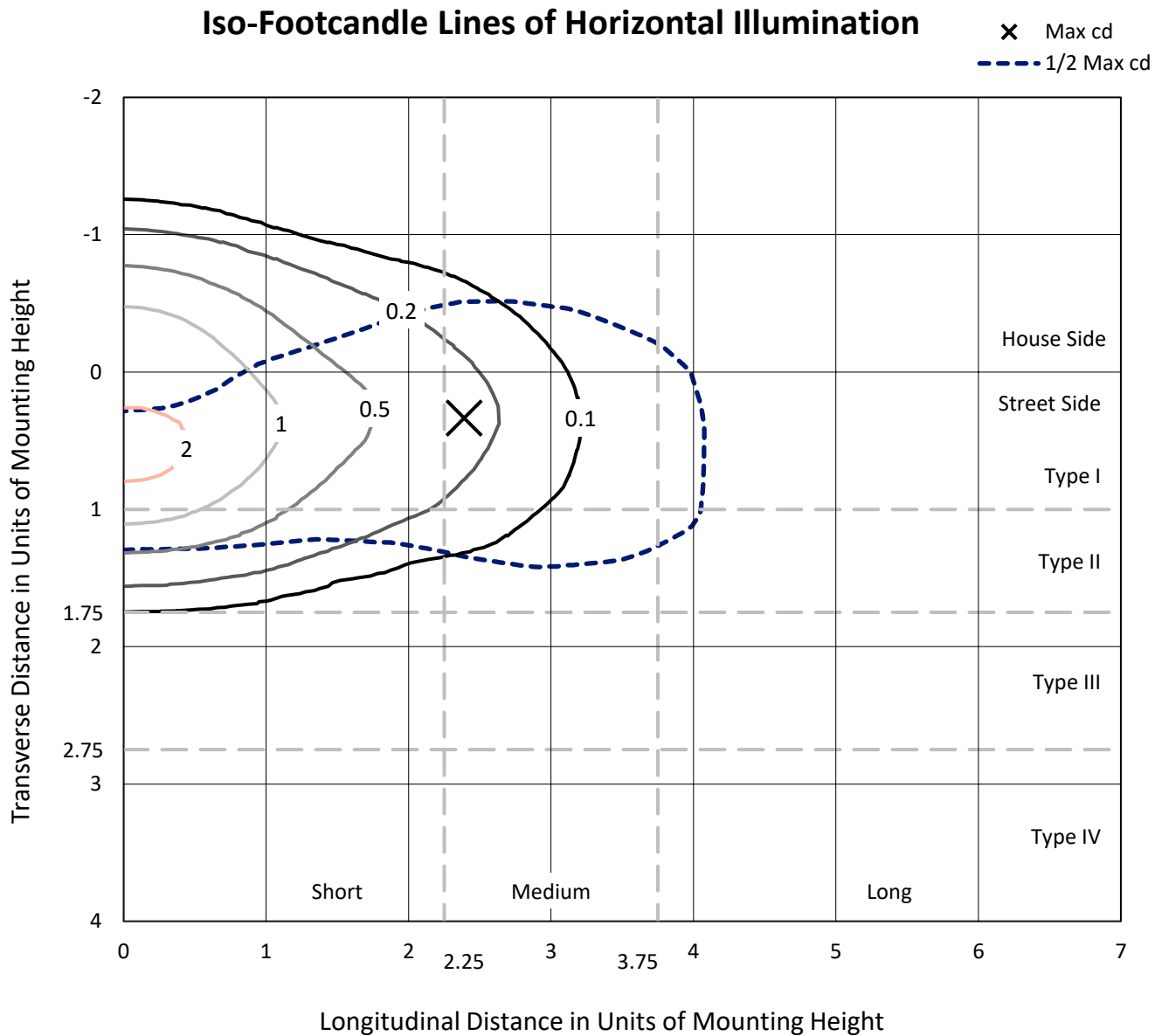
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5637 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 43
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

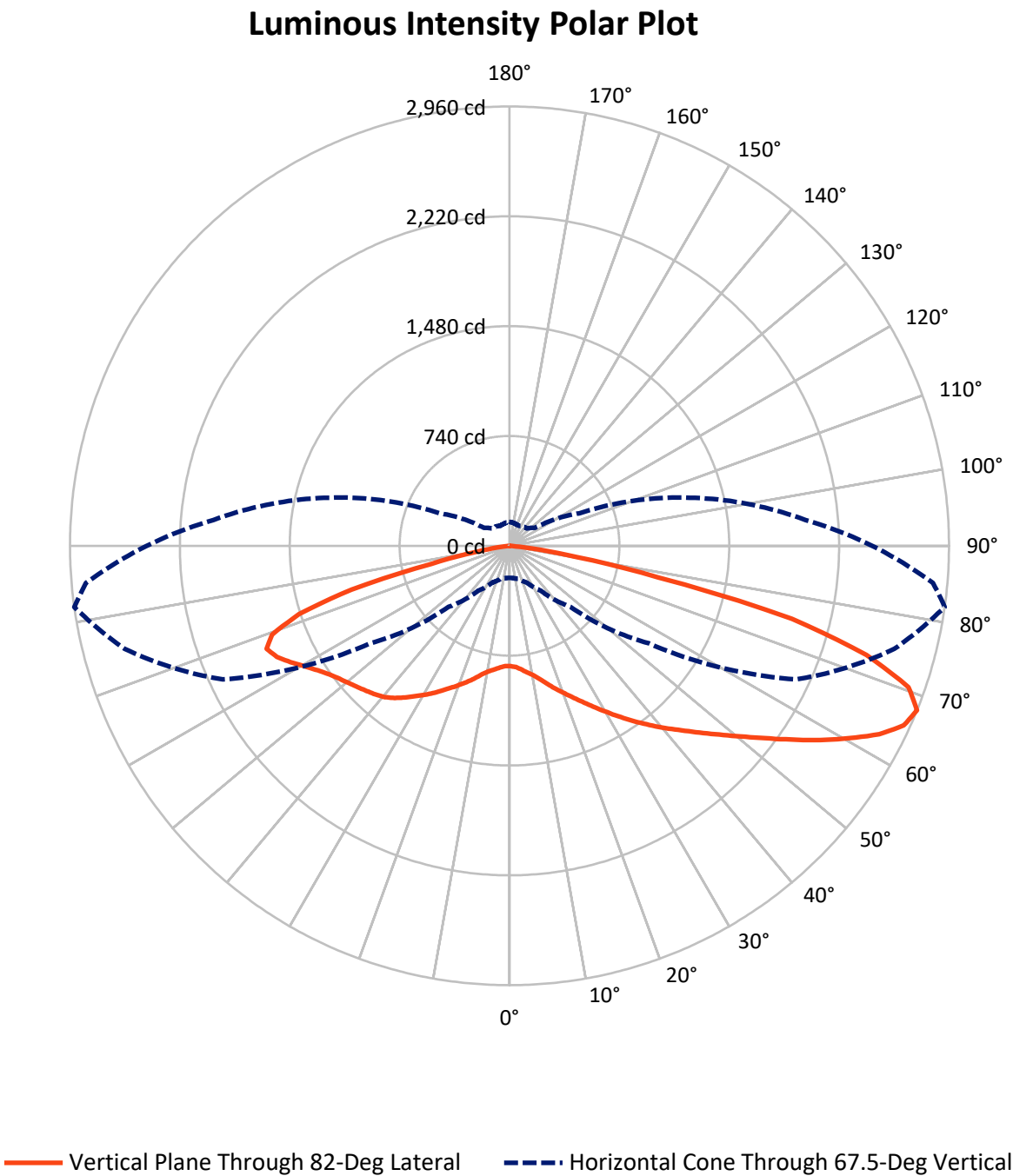


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Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type II - Medium - N/A

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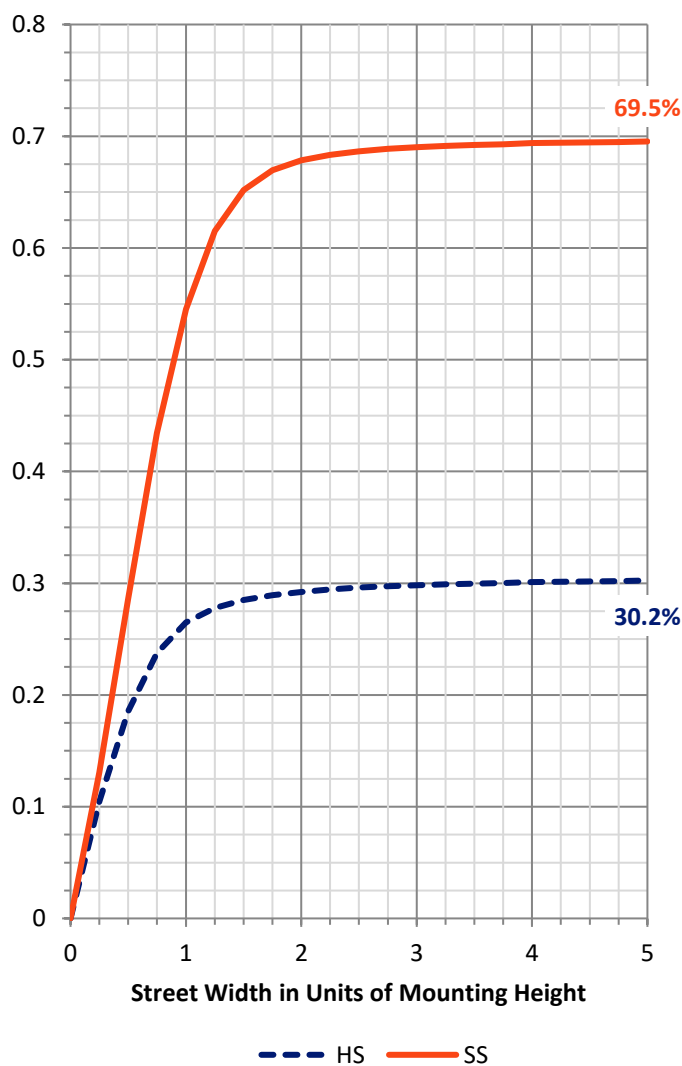
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1716.7	0.0	1716.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	3920.3	0.0	3920.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	5637.0	0.0	5637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	1.5
10°-20°	301.6	5.4
20°-30°	606.2	10.8
30°-40°	952.3	16.9
40°-50°	1160.1	20.6
50°-60°	1096.1	19.4
60°-70°	905.2	16.1
70°-80°	492.9	8.7
80°-90°	38.8	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°	5637.0	100.0
0°-180°	5637.0	100.0

Coefficient of Utilization



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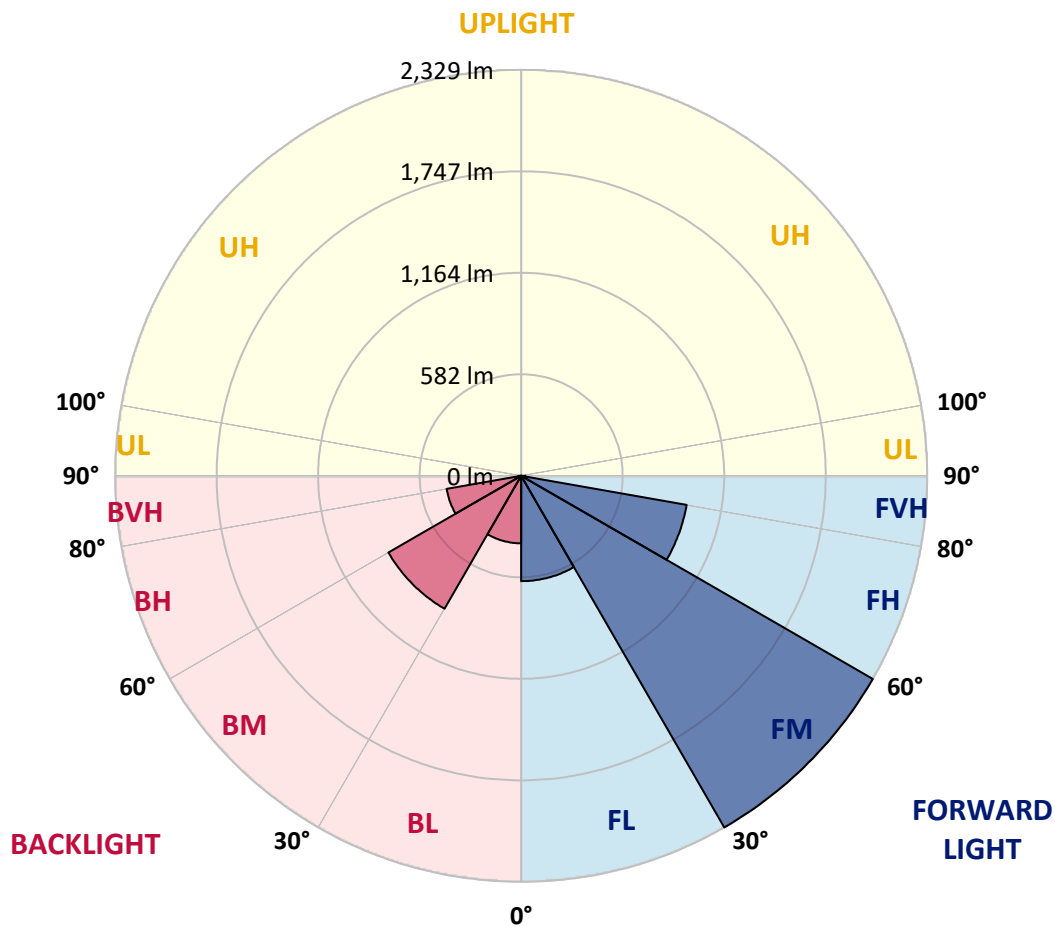
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	604.5	10.7			
FM	(30°-60°)	2328.9	41.3			
FH	(60°-80°)	963.6	17.1			G1/1800
FVH	(80°-90°)	23.4	0.4			G1/100
BL	(0°-30°)	387.1	6.9	B1/500		
BM	(30°-60°)	879.7	15.6	B1/1000		
BH	(60°-80°)	434.5	7.7	B1/500		G1/500
BVH	(80°-90°)	15.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	810.3	810.3	810.3	810.3	810.3	810.3	810.3	810.3	810.3	810.3	810.3
2.5°	847.1	847.1	853.7	853.7	848.0	839.0	836.5	826.7	817.7	817.7	818.5
5°	928.2	927.4	932.3	925.7	911.8	893.8	881.5	860.2	842.2	836.5	835.7
7.5°	1027.2	1026.4	1028.9	1018.2	992.0	962.6	938.0	903.6	874.2	861.9	858.6
10°	1137.7	1136.9	1134.4	1116.4	1081.2	1035.4	998.6	951.1	906.9	887.3	883.2
12.5°	1264.6	1262.9	1257.2	1231.0	1182.7	1123.8	1070.6	1009.2	950.3	923.3	914.3
15°	1406.2	1403.7	1393.1	1361.2	1296.5	1222.0	1153.3	1074.7	1002.7	967.5	955.2
17.5°	1555.2	1555.2	1538.8	1491.3	1419.3	1326.8	1241.7	1141.8	1057.5	1014.1	999.4
20°	1706.6	1705.8	1685.3	1628.0	1542.9	1436.5	1328.4	1218.7	1114.0	1061.6	1043.6
22.5°	1866.2	1864.5	1839.2	1773.7	1672.2	1551.9	1425.8	1294.9	1176.2	1113.2	1090.2
25°	2049.5	2047.1	2016.0	1935.8	1815.4	1679.6	1535.5	1384.1	1247.4	1170.5	1143.4
27.5°	2244.3	2241.1	2204.2	2110.9	1979.1	1815.4	1656.6	1487.2	1326.0	1234.3	1204.0
30°	2417.9	2415.4	2375.3	2279.5	2128.1	1950.5	1772.1	1590.3	1408.6	1302.2	1264.6
32.5°	2548.8	2548.8	2512.8	2418.7	2261.5	2079.8	1888.3	1687.7	1494.6	1375.1	1330.9
35°	2628.2	2630.7	2599.6	2524.3	2376.1	2201.8	2008.6	1802.3	1586.3	1452.8	1405.4
37.5°	2639.7	2647.9	2629.8	2579.1	2455.5	2303.3	2126.5	1912.8	1681.2	1531.4	1478.2
40°	2586.5	2592.2	2593.0	2573.4	2488.2	2376.1	2230.4	2029.9	1781.9	1614.1	1552.7
42.5°	2480.1	2484.2	2491.5	2497.2	2464.5	2408.0	2309.8	2138.7	1889.1	1698.4	1626.4
45°	2342.5	2341.7	2354.0	2378.6	2376.9	2390.0	2354.0	2237.8	2000.4	1794.2	1708.2
47.5°	2137.1	2133.0	2176.4	2232.1	2259.9	2321.3	2354.8	2315.5	2121.6	1899.7	1801.5
50°	1815.4	1811.3	1906.3	2037.2	2119.1	2212.4	2309.8	2362.2	2248.4	2018.4	1903.0
52.5°	1424.2	1420.1	1540.4	1769.6	1948.0	2083.9	2219.0	2372.8	2368.7	2151.0	2017.6
55°	1059.1	1055.9	1172.9	1420.9	1709.8	1934.9	2107.6	2345.0	2481.7	2303.3	2156.7
57.5°	746.5	744.8	846.3	1051.8	1403.7	1753.2	2000.4	2291.0	2585.6	2468.6	2313.9
60°	523.8	521.4	595.1	753.8	1061.6	1479.0	1894.0	2219.0	2663.4	2631.5	2480.9
62.5°	352.8	351.1	403.5	536.1	753.8	1138.5	1732.8	2170.7	2707.6	2795.2	2649.5
65°	267.6	266.8	290.6	363.4	533.7	817.7	1476.6	2164.9	2713.3	2918.0	2792.7
67.5°	216.1	216.9	230.0	271.7	369.1	581.1	1145.1	2128.9	2683.0	2959.7	2862.3
70°	176.8	176.8	182.5	210.4	272.6	392.1	799.7	1965.2	2598.7	2850.8	2779.6
72.5°	135.1	135.9	153.9	170.2	205.4	275.0	512.4	1626.4	2399.8	2513.6	2459.6
75°	107.2	106.4	117.0	140.0	159.6	196.4	314.3	1166.4	2042.2	1964.4	1930.0
77.5°	76.9	76.1	84.3	103.9	121.1	139.1	187.4	588.5	1110.7	1020.7	995.3
80°	52.4	50.7	58.1	72.0	80.2	81.9	91.7	225.9	484.6	456.7	451.0
82.5°	27.0	27.0	31.1	40.9	41.7	42.6	40.9	72.8	160.4	149.8	143.2
85°	10.6	10.6	11.5	13.9	13.9	14.7	14.7	18.8	17.2	16.4	15.6
87.5°	0.8	0.8	1.6	1.6	2.5	2.5	2.5	3.3	4.1	4.1	4.1
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°	810.3	810.3	810.3	810.3	810.3	810.3	810.3	810.3	810.3	810.3	810.3
2.5°	816.9	813.6	802.9	800.5	798.9	796.4	797.2	791.5	789.0	789.9	786.6
5°	831.6	825.9	812.8	807.0	805.4	802.9	805.4	801.3	797.2	798.9	797.2
7.5°	852.1	843.9	827.5	821.8	821.0	818.5	821.8	818.5	815.2	816.9	813.6
10°	873.3	862.7	844.7	839.0	839.0	838.1	841.4	836.5	833.2	834.1	832.4
12.5°	904.4	890.5	870.9	866.0	863.5	866.0	866.8	860.2	854.5	855.3	852.9
15°	942.1	926.5	905.3	897.9	896.3	895.4	892.2	884.0	876.6	875.8	873.3
17.5°	983.0	963.4	938.0	930.6	923.3	920.8	912.6	902.0	890.5	890.5	887.3
20°	1022.3	1000.2	969.9	959.3	948.6	938.8	924.9	907.7	893.0	890.5	887.3
22.5°	1064.9	1038.7	1003.5	987.9	969.1	949.5	925.7	902.8	884.0	879.9	877.4
25°	1112.3	1079.6	1037.9	1014.9	984.7	954.4	919.2	889.7	867.6	861.1	859.4
27.5°	1164.7	1125.4	1074.7	1041.1	996.9	949.5	904.4	869.2	842.2	834.1	831.6
30°	1217.9	1171.3	1108.3	1059.1	996.9	933.9	877.4	836.5	805.4	793.9	792.3
32.5°	1271.1	1218.7	1138.5	1069.0	987.1	907.7	842.2	793.9	758.8	744.8	748.1
35°	1335.0	1271.1	1166.4	1073.1	970.7	875.8	802.1	745.7	709.6	697.4	699.8
37.5°	1401.3	1323.5	1188.5	1069.8	947.8	839.8	757.1	702.3	657.3	636.0	638.4
40°	1458.6	1371.0	1204.0	1058.3	918.4	798.9	712.9	640.9	578.7	558.2	555.8
42.5°	1512.6	1406.2	1212.2	1041.1	884.8	751.4	649.9	557.4	495.2	469.8	470.6
45°	1569.1	1440.6	1208.9	1018.2	843.1	695.7	568.9	475.5	420.7	397.8	398.6
47.5°	1633.7	1477.4	1205.7	993.7	792.3	623.7	491.1	403.5	356.0	339.7	338.0
50°	1702.5	1518.3	1201.6	963.4	735.8	543.5	414.2	336.4	296.3	285.7	283.2
52.5°	1780.2	1562.5	1199.1	927.4	667.9	458.4	345.4	277.5	250.5	243.1	242.3
55°	1873.5	1614.1	1202.4	884.0	586.0	378.1	287.3	239.0	221.0	216.9	216.1
57.5°	1987.3	1680.4	1212.2	833.2	500.1	308.6	244.7	215.3	203.8	200.5	200.5
60°	2110.9	1755.7	1230.2	775.9	414.2	254.6	216.9	196.4	191.5	195.6	195.6
62.5°	2244.3	1844.1	1262.1	706.4	333.9	215.3	194.8	180.9	177.6	185.8	186.6
65°	2367.9	1930.0	1282.6	622.9	265.2	186.6	177.6	165.3	167.0	175.2	174.3
67.5°	2444.0	2001.2	1253.9	518.1	210.4	165.3	159.6	149.0	153.1	159.6	160.4
70°	2397.4	1961.1	1112.3	391.2	164.5	144.1	140.0	133.4	136.7	144.9	148.1
72.5°	2169.0	1756.5	865.2	264.4	132.6	121.1	122.8	119.5	123.6	131.0	138.3
75°	1760.6	1327.6	580.3	169.4	104.8	103.1	105.6	103.1	104.8	112.1	116.2
77.5°	919.2	647.4	288.9	105.6	77.8	80.2	84.3	85.1	90.0	91.7	93.3
80°	428.9	291.4	120.3	58.9	51.6	56.5	64.7	65.5	67.1	69.6	70.4
82.5°	140.0	87.6	55.7	31.9	29.5	31.9	41.7	49.9	50.7	55.7	55.7
85°	14.7	9.0	12.3	13.1	11.5	13.9	18.8	18.0	8.2	4.9	4.9
87.5°	4.1	3.3	4.1	4.1	3.3	3.3	2.5	0.8	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)