

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: P800056

Luminaire Tested: **ARCH2-70-740-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-740-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

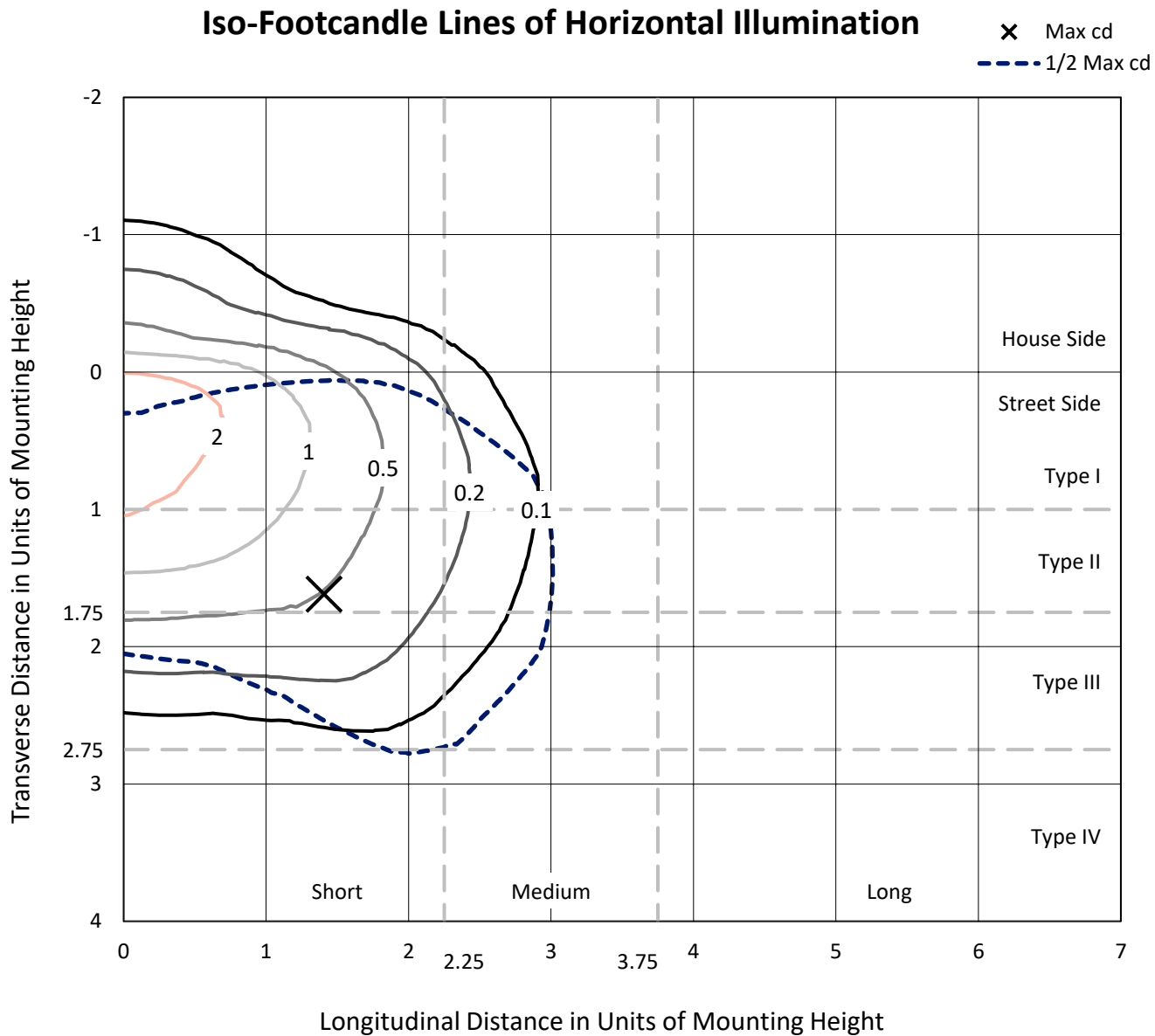
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7238 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.6
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



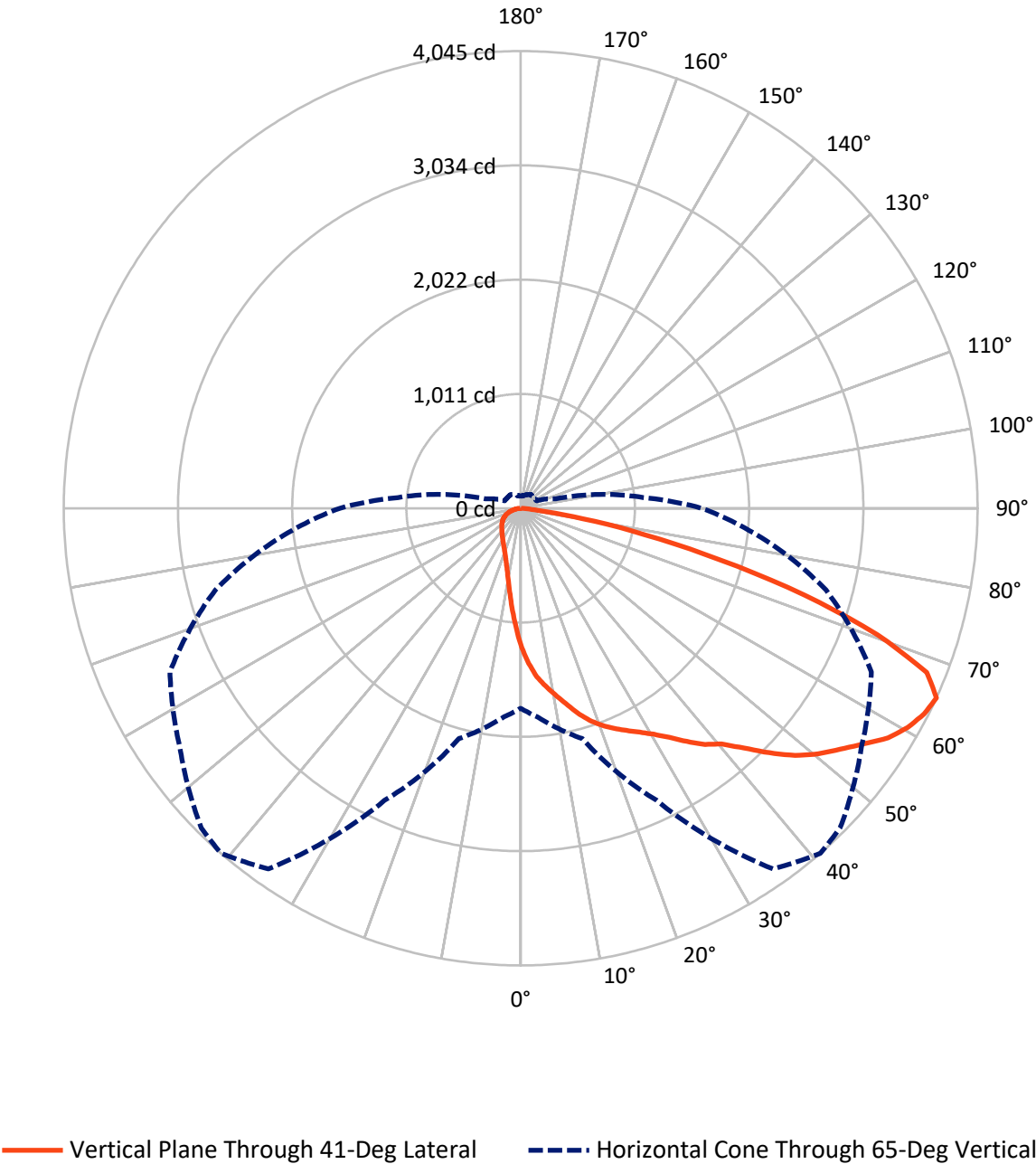
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Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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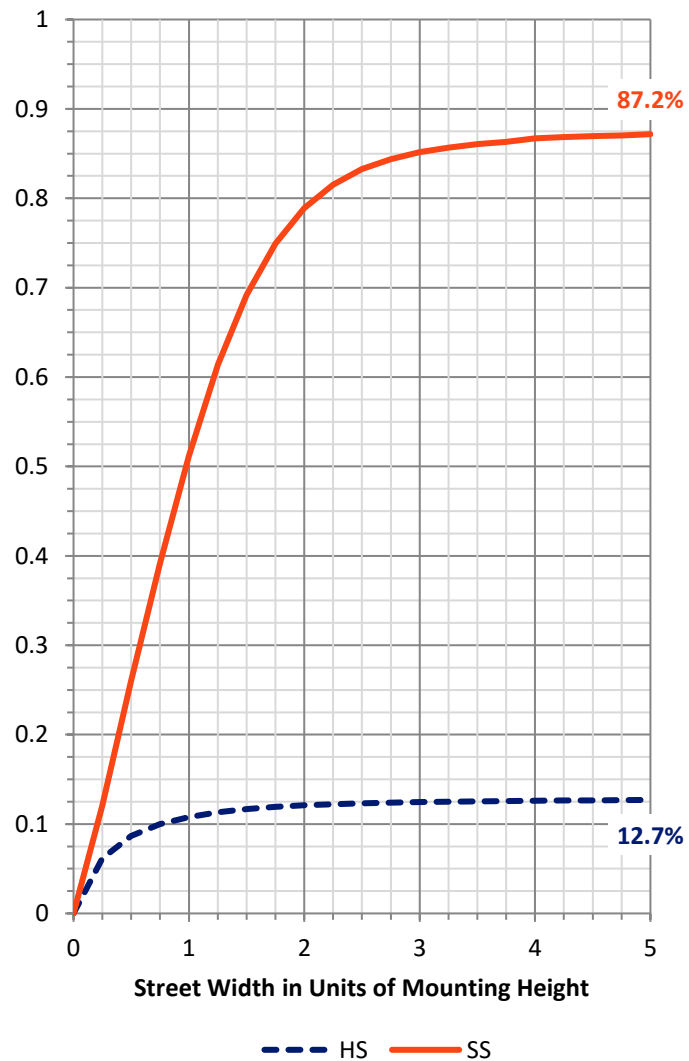
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	929.2	0.0	929.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6308.8	0.0	6308.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	7238.0	0.0	7238.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	1.6
10°-20°	344.6	4.8
20°-30°	592.8	8.2
30°-40°	899.1	12.4
40°-50°	1317.1	18.2
50°-60°	1663.3	23.0
60°-70°	1559.6	21.5
70°-80°	695.1	9.6
80°-90°	51.5	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°	7238.0	100.0
0°-180°	7238.0	100.0

Coefficient of Utilization



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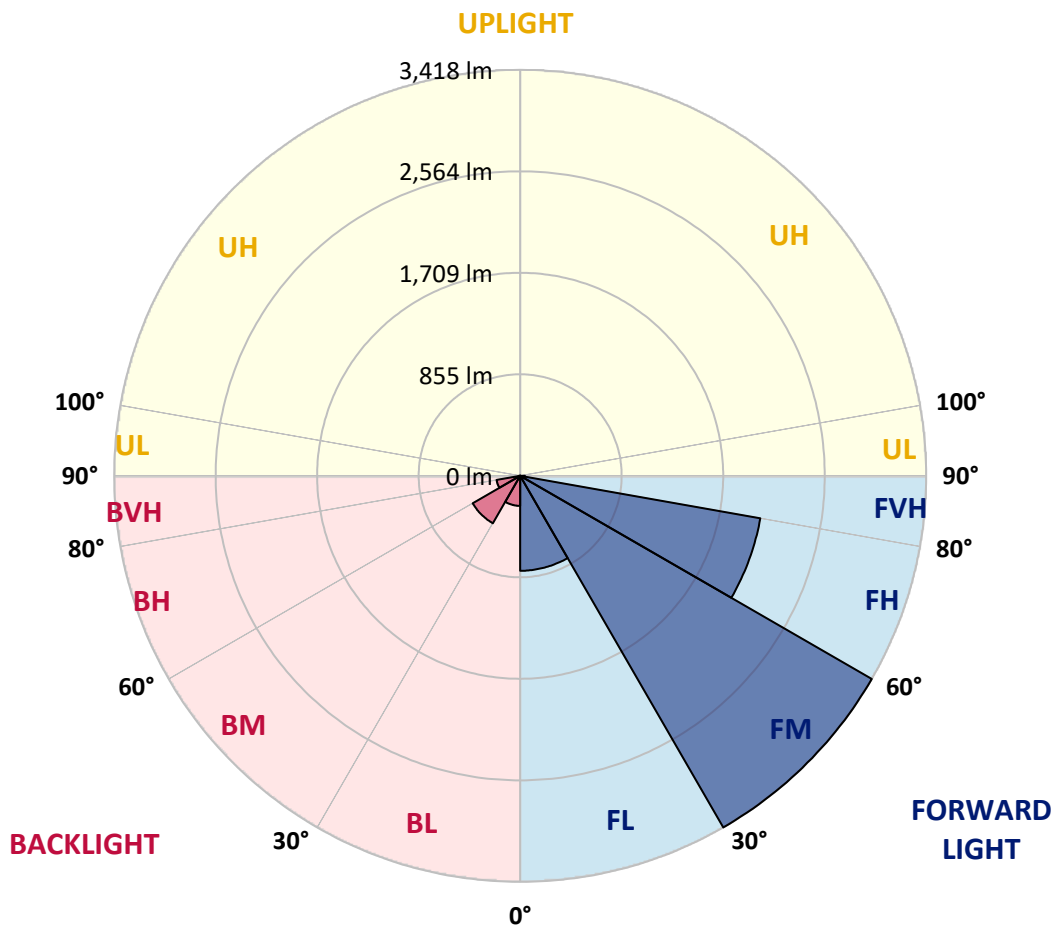
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	799.3	11.0			
FM	(30°-60°)	3418.1	47.2			
FH	(60°-80°)	2052.9	28.4			G2/5000
FVH	(80°-90°)	38.5	0.5			G1/100
BL	(0°-30°)	252.9	3.5	B1/500		
BM	(30°-60°)	461.4	6.4	B1/1000		
BH	(60°-80°)	201.9	2.8	B1/500		G1/500
BVH	(80°-90°)	13.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3
2.5°	1422.6	1418.0	1415.0	1398.2	1398.2	1375.3	1376.8	1355.4	1329.5	1288.3	1244.0
5°	1556.9	1550.8	1543.2	1526.4	1520.3	1497.4	1494.3	1463.8	1419.5	1347.8	1268.4
7.5°	1674.4	1668.3	1657.7	1633.2	1616.4	1589.0	1581.3	1541.6	1492.8	1404.3	1292.8
10°	1781.3	1776.7	1763.0	1732.4	1709.5	1676.0	1662.2	1608.8	1547.8	1450.1	1312.7
12.5°	1889.7	1883.6	1865.2	1839.3	1811.8	1772.1	1755.3	1686.7	1608.8	1500.4	1341.7
15°	1990.4	1981.2	1967.5	1940.0	1915.6	1877.5	1859.1	1778.2	1683.6	1556.9	1379.9
17.5°	2056.0	2048.4	2036.2	2020.9	2001.1	1972.1	1953.8	1874.4	1758.4	1611.9	1419.5
20°	2095.7	2092.7	2088.1	2078.9	2069.8	2049.9	2036.2	1961.4	1839.3	1665.3	1457.7
22.5°	2126.3	2123.2	2121.7	2121.7	2123.2	2115.6	2106.4	2042.3	1917.1	1721.8	1492.8
25°	2173.6	2172.0	2169.0	2165.9	2176.6	2178.1	2175.1	2130.8	2014.8	1796.6	1537.1
27.5°	2239.2	2234.6	2228.5	2225.5	2236.2	2243.8	2249.9	2219.4	2118.6	1872.9	1587.4
30°	2339.9	2326.2	2310.9	2300.3	2307.9	2320.1	2333.8	2315.5	2225.5	1967.5	1639.3
32.5°	2459.0	2442.2	2407.1	2387.3	2407.1	2416.3	2426.9	2417.8	2336.9	2069.8	1691.2
35°	2604.0	2584.2	2547.5	2518.5	2553.6	2533.8	2529.2	2520.1	2442.2	2170.5	1749.2
37.5°	2845.2	2816.2	2758.2	2694.1	2694.1	2651.3	2634.5	2607.1	2536.8	2260.6	1805.7
40°	3124.5	3086.3	3011.6	2916.9	2829.9	2741.4	2730.7	2710.9	2648.3	2364.4	1869.8
42.5°	3431.3	3358.0	3254.2	3139.8	2999.3	2898.6	2874.2	2817.7	2756.6	2469.7	1933.9
45°	3771.7	3619.1	3467.9	3409.9	3177.9	3086.3	3040.6	2938.3	2869.6	2579.6	2001.1
47.5°	3826.6	3707.6	3606.8	3597.7	3344.3	3268.0	3216.1	3069.6	2991.7	2697.1	2071.3
50°	3796.1	3724.4	3735.1	3698.4	3466.4	3416.0	3376.4	3210.0	3112.3	2810.1	2135.4
52.5°	3667.9	3707.6	3768.6	3701.5	3582.4	3541.2	3521.4	3361.1	3225.2	2913.9	2193.4
55°	3515.3	3542.7	3674.0	3756.4	3716.7	3680.1	3661.8	3536.6	3336.7	3000.9	2246.8
57.5°	3292.4	3280.2	3425.2	3747.3	3857.2	3835.8	3816.0	3709.1	3440.5	3063.5	2280.4
60°	2958.1	2932.2	3115.3	3564.1	3903.0	3936.5	3927.4	3823.6	3519.8	3061.9	2266.7
62.5°	2379.6	2443.7	2697.1	3264.9	3922.8	4008.3	3991.5	3832.7	3545.8	2973.4	2179.7
65°	1769.1	1860.7	2109.5	2852.8	3895.3	4044.9	3999.1	3683.2	3425.2	2797.9	1988.9
67.5°	1274.5	1355.4	1537.1	2347.6	3631.3	3877.0	3823.6	3438.9	3147.4	2549.1	1724.8
70°	871.6	929.6	1053.2	1709.5	3100.1	3351.9	3318.4	3074.1	2709.3	2252.9	1401.2
72.5°	615.1	639.6	718.9	1128.0	2355.2	2630.0	2590.3	2529.2	2176.6	1872.9	1089.8
75°	461.0	476.2	519.0	729.6	1589.0	1822.5	1785.9	1821.0	1625.6	1418.0	793.7
77.5°	174.0	189.3	294.6	465.5	940.3	1118.8	1082.2	1103.6	903.6	715.9	395.3
80°	47.3	50.4	97.7	221.3	427.4	557.1	506.8	435.0	335.8	329.7	209.1
82.5°	19.8	22.9	44.3	119.1	152.6	152.6	128.2	158.7	128.2	154.2	100.7
85°	7.6	9.2	10.7	30.5	19.8	21.4	22.9	30.5	25.9	32.1	22.9
87.5°	0.0	0.0	0.0	1.5	1.5	3.1	1.5	3.1	4.6	4.6	4.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3	1233.3
2.5°	1225.7	1208.9	1184.5	1144.8	1103.6	1080.7	1051.7	1047.1	1016.6	1013.5	1001.3
5°	1233.3	1198.2	1135.6	1059.3	984.5	926.5	883.8	860.9	816.6	816.6	804.4
7.5°	1239.4	1184.5	1083.7	970.8	868.5	790.7	732.7	708.2	668.6	665.5	656.3
10°	1240.9	1167.7	1027.3	880.7	755.6	676.2	619.7	592.2	557.1	554.1	548.0
12.5°	1253.2	1158.5	976.9	802.9	674.7	589.2	534.2	511.3	483.9	480.8	474.7
15°	1273.0	1158.5	934.1	737.2	602.9	523.5	476.2	454.9	435.0	432.0	428.9
17.5°	1292.8	1155.5	891.4	676.2	543.4	471.7	430.4	413.6	398.4	396.9	393.8
20°	1311.2	1153.9	848.7	624.3	497.6	428.9	396.9	381.6	369.4	369.4	367.9
22.5°	1329.5	1150.9	807.5	575.4	457.9	396.9	369.4	352.6	343.4	343.4	341.9
25°	1357.0	1150.9	769.3	534.2	425.9	372.4	345.0	332.8	325.1	323.6	323.6
27.5°	1389.0	1160.1	735.7	497.6	398.4	348.0	326.6	314.4	305.3	302.2	303.8
30°	1424.1	1167.7	705.2	465.5	372.4	329.7	306.8	294.6	285.4	282.4	283.9
32.5°	1459.2	1176.8	677.7	436.5	346.5	312.9	290.0	276.3	267.1	265.6	265.6
35°	1497.4	1186.0	650.2	412.1	325.1	296.1	274.7	259.5	253.4	250.3	251.9
37.5°	1535.5	1201.3	624.3	389.2	309.9	280.9	261.0	245.7	241.2	239.6	239.6
40°	1581.3	1224.2	613.6	374.0	296.1	267.1	250.3	235.1	230.5	230.5	230.5
42.5°	1619.5	1242.5	604.4	357.2	285.4	254.9	239.6	227.4	224.4	222.9	224.4
45°	1657.7	1259.3	592.2	341.9	271.7	242.7	230.5	218.3	215.2	215.2	215.2
47.5°	1695.8	1268.4	575.4	326.6	259.5	232.0	221.3	210.6	207.6	207.6	207.6
50°	1726.3	1276.1	551.0	309.9	245.7	222.9	212.2	201.5	198.4	198.4	198.4
52.5°	1756.9	1277.6	525.1	290.0	232.0	212.2	203.0	192.3	189.3	187.7	187.7
55°	1784.3	1276.1	494.5	267.1	216.7	200.0	192.3	183.2	177.1	171.0	174.0
57.5°	1804.2	1274.5	459.4	244.2	201.5	187.7	184.7	172.5	160.3	145.0	148.1
60°	1796.6	1257.7	421.3	215.2	184.7	175.5	175.5	158.7	137.4	129.7	131.3
62.5°	1747.7	1210.4	381.6	184.7	167.9	163.3	161.8	143.5	126.7	119.1	120.6
65°	1601.2	1091.4	323.6	157.2	151.1	149.6	149.6	132.8	117.5	108.4	109.9
67.5°	1378.3	915.8	264.1	132.8	134.3	137.4	137.4	122.1	106.8	97.7	99.2
70°	1105.1	715.9	210.6	114.5	116.0	120.6	123.6	109.9	96.2	87.0	87.0
72.5°	831.9	543.4	169.4	96.2	103.8	103.8	108.4	97.7	84.0	74.8	76.3
75°	602.9	389.2	134.3	80.9	90.1	88.5	88.5	82.4	71.7	65.6	65.6
77.5°	285.4	204.5	106.8	58.0	70.2	68.7	70.2	65.6	61.1	54.9	56.5
80°	140.4	100.7	68.7	41.2	48.8	50.4	54.9	51.9	50.4	45.8	45.8
82.5°	67.2	39.7	32.1	29.0	33.6	35.1	38.2	38.2	39.7	36.6	36.6
85°	18.3	10.7	13.7	18.3	21.4	22.9	25.9	27.5	27.5	25.9	27.5
87.5°	4.6	4.6	6.1	9.2	10.7	12.2	13.7	13.7	6.1	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)