

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: P799944

Luminaire Tested: **ARCH2-60-750-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799944
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: ARCH2-60-750-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

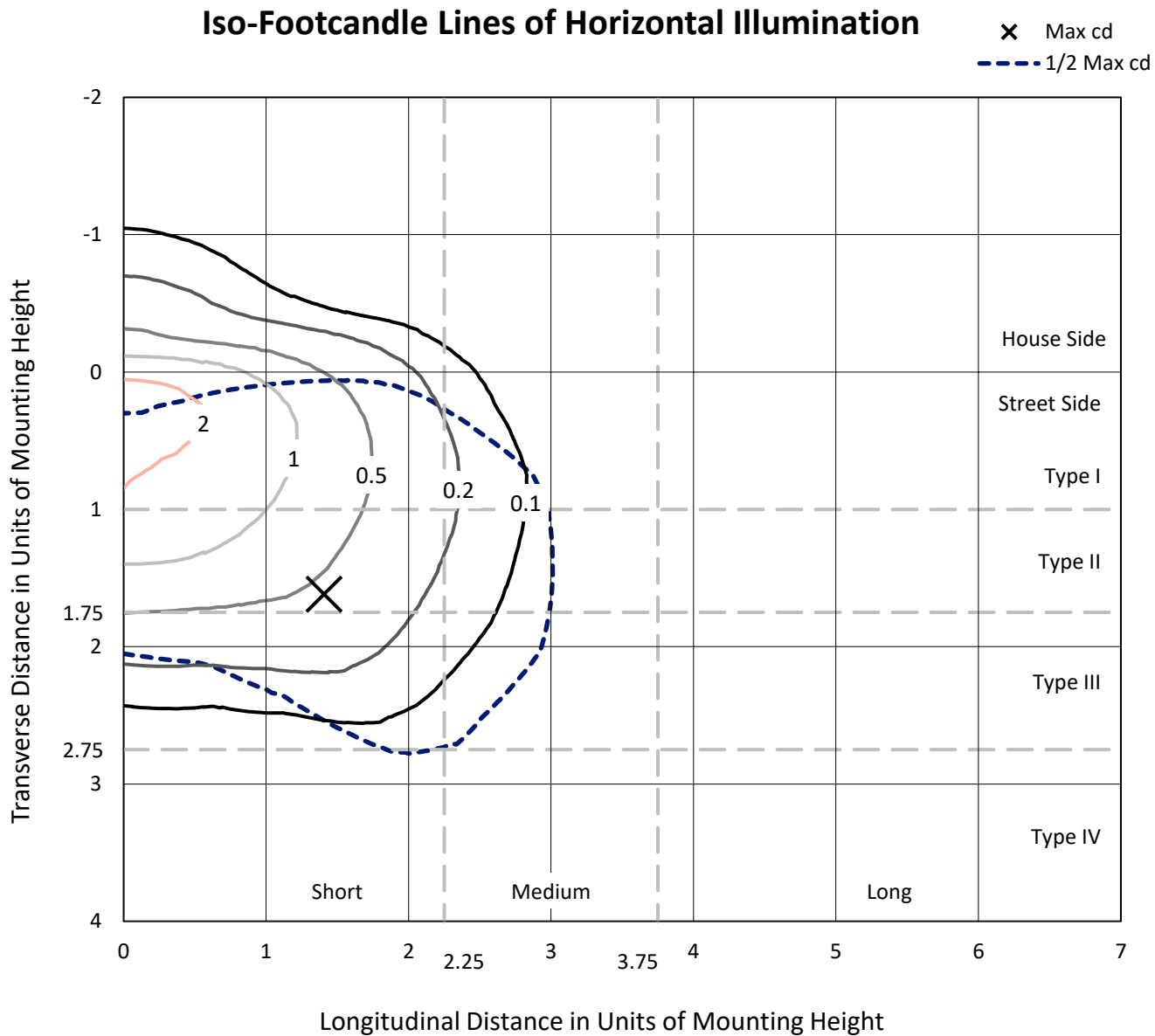
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6461 lumens
Efficiency: N/A
Efficacy: 101.3 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): 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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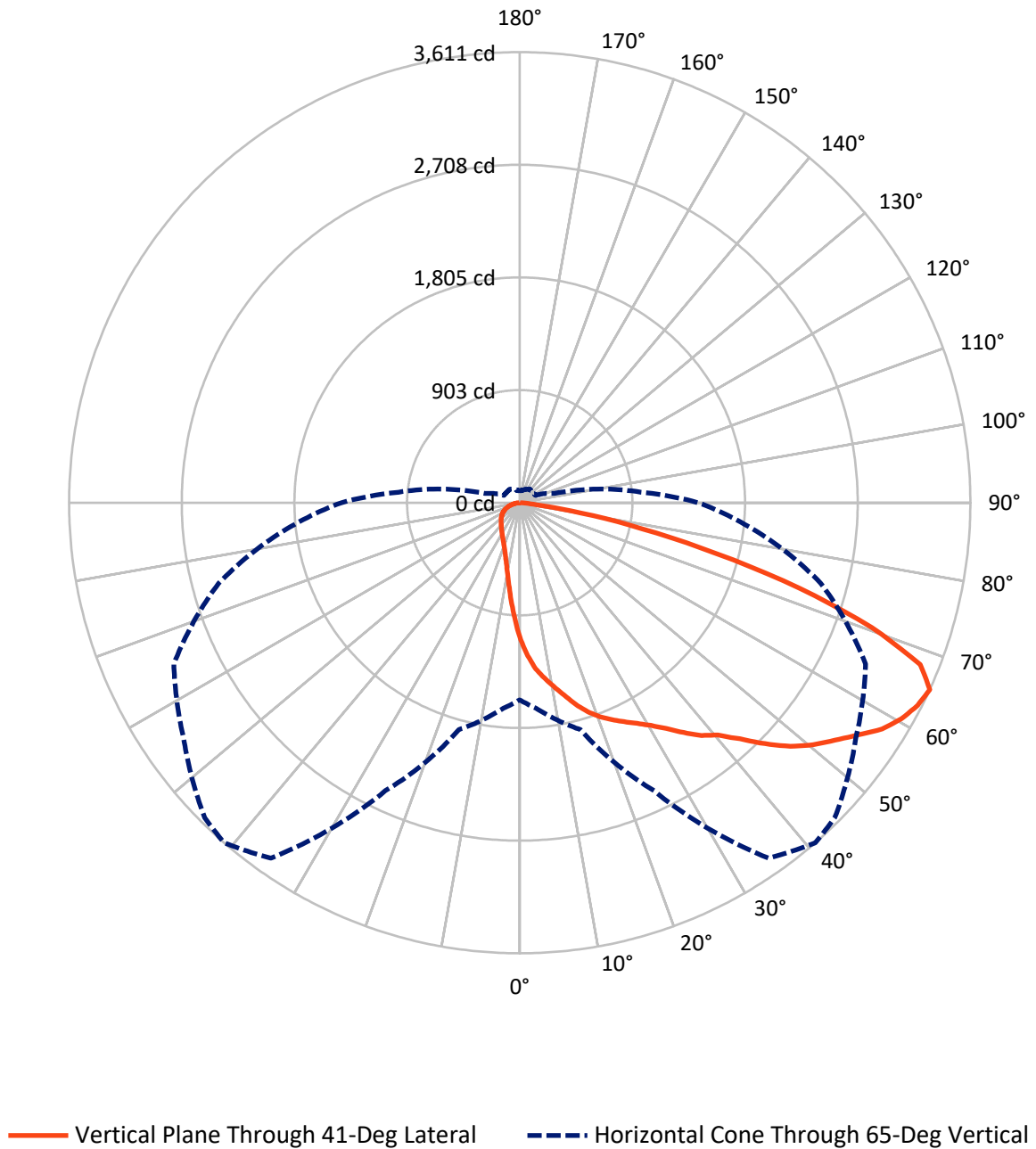


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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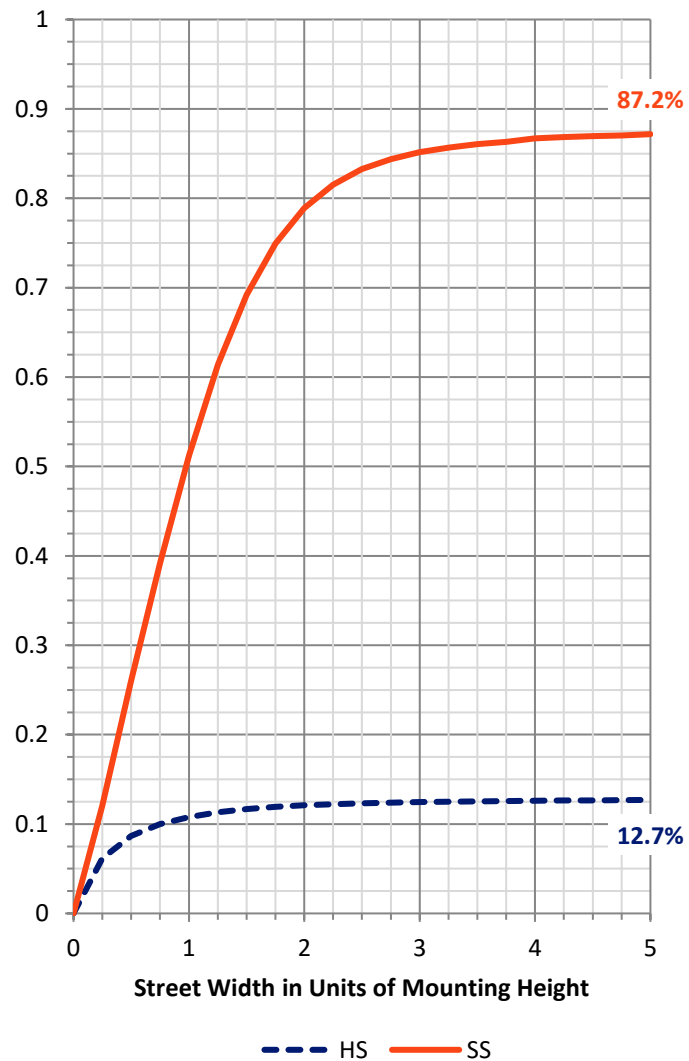
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	829.5	0.0	829.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5631.5	0.0	5631.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	6461.0	0.0	6461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	1.6
10°-20°	307.6	4.8
20°-30°	529.2	8.2
30°-40°	802.5	12.4
40°-50°	1175.8	18.2
50°-60°	1484.7	23.0
60°-70°	1392.2	21.5
70°-80°	620.5	9.6
80°-90°	46.0	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°	6461.0	100.0
0°-180°	6461.0	100.0

Coefficient of Utilization



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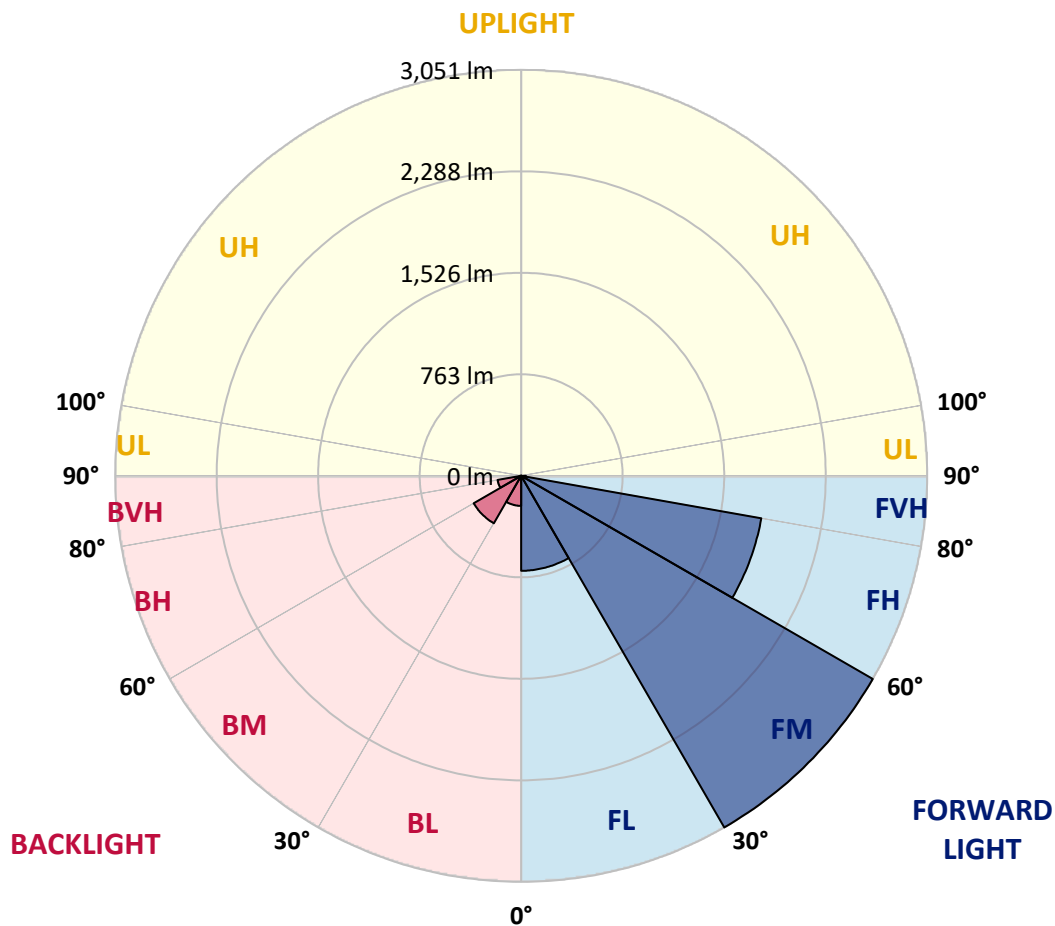
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	713.5	11.0			
FM	(30°-60°)	3051.1	47.2			
FH	(60°-80°)	1832.5	28.4			G2/5000
FVH	(80°-90°)	34.3	0.5			G1/100
BL	(0°-30°)	225.8	3.5	B1/500		
BM	(30°-60°)	411.9	6.4	B1/1000		
BH	(60°-80°)	180.2	2.8	B1/500		G1/500
BVH	(80°-90°)	11.6	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°	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9
2.5°	1269.9	1265.8	1263.1	1248.1	1248.1	1227.6	1229.0	1209.9	1186.8	1150.0	1110.5
5°	1389.8	1384.3	1377.5	1362.5	1357.1	1336.6	1333.9	1306.7	1267.1	1203.1	1132.3
7.5°	1494.7	1489.2	1479.7	1457.9	1442.9	1418.4	1411.6	1376.2	1332.5	1253.5	1154.1
10°	1590.1	1586.0	1573.7	1546.5	1526.0	1496.1	1483.8	1436.1	1381.6	1294.4	1171.8
12.5°	1686.8	1681.4	1665.0	1641.8	1617.3	1581.9	1566.9	1505.6	1436.1	1339.4	1197.7
15°	1776.7	1768.6	1756.3	1731.8	1710.0	1675.9	1659.6	1587.3	1502.9	1389.8	1231.7
17.5°	1835.3	1828.5	1817.6	1804.0	1786.3	1760.4	1744.0	1673.2	1569.6	1438.8	1267.1
20°	1870.7	1868.0	1863.9	1855.8	1847.6	1829.9	1817.6	1750.8	1641.8	1486.5	1301.2
22.5°	1898.0	1895.3	1893.9	1893.9	1895.3	1888.5	1880.3	1823.1	1711.3	1536.9	1332.5
25°	1940.2	1938.9	1936.1	1933.4	1943.0	1944.3	1941.6	1902.1	1798.5	1603.7	1372.1
27.5°	1998.8	1994.7	1989.3	1986.6	1996.1	2002.9	2008.4	1981.1	1891.2	1671.8	1417.0
30°	2088.8	2076.5	2062.9	2053.3	2060.1	2071.0	2083.3	2067.0	1986.6	1756.3	1463.4
32.5°	2195.0	2180.0	2148.7	2131.0	2148.7	2156.9	2166.4	2158.2	2086.0	1847.6	1509.7
35°	2324.5	2306.8	2274.1	2248.2	2279.5	2261.8	2257.7	2249.5	2180.0	1937.5	1561.5
37.5°	2539.7	2513.9	2462.1	2404.9	2404.9	2366.7	2351.7	2327.2	2264.5	2017.9	1611.9
40°	2789.1	2755.0	2688.3	2603.8	2526.1	2447.1	2437.6	2419.8	2364.0	2110.6	1669.1
42.5°	3063.0	2997.6	2904.9	2802.7	2677.4	2587.4	2565.6	2515.2	2460.7	2204.6	1726.3
45°	3366.8	3230.5	3095.7	3043.9	2836.8	2755.0	2714.2	2622.9	2561.5	2302.7	1786.3
47.5°	3415.9	3309.6	3219.6	3211.5	2985.3	2917.2	2870.8	2740.0	2670.6	2407.6	1848.9
50°	3388.6	3324.6	3334.1	3301.4	3094.3	3049.3	3013.9	2865.4	2778.2	2508.4	1906.2
52.5°	3274.1	3309.6	3364.1	3304.1	3197.8	3161.1	3143.3	3000.3	2879.0	2601.1	1957.9
55°	3137.9	3162.4	3279.6	3353.2	3317.7	3285.0	3268.7	3157.0	2978.5	2678.7	2005.6
57.5°	2939.0	2928.1	3057.5	3345.0	3443.1	3424.0	3406.3	3310.9	3071.1	2734.6	2035.6
60°	2640.6	2617.4	2780.9	3181.5	3484.0	3514.0	3505.8	3413.1	3142.0	2733.2	2023.4
62.5°	2124.2	2181.4	2407.6	2914.4	3501.7	3578.0	3563.0	3421.3	3165.1	2654.2	1945.7
65°	1579.2	1660.9	1883.0	2546.6	3477.2	3610.7	3569.8	3287.8	3057.5	2497.5	1775.4
67.5°	1137.7	1209.9	1372.1	2095.6	3241.4	3460.8	3413.1	3069.8	2809.5	2275.4	1539.7
70°	778.0	829.8	940.1	1526.0	2767.3	2992.1	2962.1	2744.1	2418.5	2011.1	1250.8
72.5°	549.1	570.9	641.7	1006.9	2102.4	2347.6	2312.2	2257.7	1943.0	1671.8	972.8
75°	411.5	425.1	463.3	651.3	1418.4	1626.9	1594.2	1625.5	1451.1	1265.8	708.5
77.5°	155.3	169.0	263.0	415.6	839.3	998.7	966.0	985.1	806.6	639.0	352.9
80°	42.2	45.0	87.2	197.6	381.5	497.3	452.4	388.3	299.8	294.3	186.7
82.5°	17.7	20.4	39.5	106.3	136.3	136.3	114.5	141.7	114.5	137.6	89.9
85°	6.8	8.2	9.5	27.3	17.7	19.1	20.4	27.3	23.2	28.6	20.4
87.5°	0.0	0.0	0.0	1.4	1.4	2.7	1.4	2.7	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°	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9
2.5°	1094.1	1079.1	1057.3	1021.9	985.1	964.7	938.8	934.7	907.4	904.7	893.8
5°	1100.9	1069.6	1013.7	945.6	878.8	827.1	788.9	768.5	729.0	729.0	718.1
7.5°	1106.4	1057.3	967.4	866.6	775.3	705.8	654.0	632.2	596.8	594.1	585.9
10°	1107.7	1042.3	917.0	786.2	674.5	603.6	553.2	528.7	497.3	494.6	489.1
12.5°	1118.6	1034.2	872.0	716.7	602.2	525.9	476.9	456.4	431.9	429.2	423.7
15°	1136.3	1034.2	833.9	658.1	538.2	467.3	425.1	406.0	388.3	385.6	382.9
17.5°	1154.1	1031.4	795.7	603.6	485.1	421.0	384.2	369.2	355.6	354.3	351.5
20°	1170.4	1030.1	757.6	557.3	444.2	382.9	354.3	340.6	329.7	329.7	328.4
22.5°	1186.8	1027.3	720.8	513.7	408.8	354.3	329.7	314.7	306.6	306.6	305.2
25°	1211.3	1027.3	686.7	476.9	380.1	332.5	307.9	297.0	290.2	288.9	288.9
27.5°	1239.9	1035.5	656.7	444.2	355.6	310.7	291.6	280.7	272.5	269.8	271.1
30°	1271.2	1042.3	629.5	415.6	332.5	294.3	273.9	263.0	254.8	252.1	253.4
32.5°	1302.6	1050.5	605.0	389.7	309.3	279.3	258.9	246.6	238.4	237.1	237.1
35°	1336.6	1058.7	580.4	367.9	290.2	264.3	245.3	231.6	226.2	223.5	224.8
37.5°	1370.7	1072.3	557.3	347.4	276.6	250.7	233.0	219.4	215.3	213.9	213.9
40°	1411.6	1092.7	547.7	333.8	264.3	238.4	223.5	209.8	205.7	205.7	205.7
42.5°	1445.6	1109.1	539.6	318.8	254.8	227.5	213.9	203.0	200.3	198.9	200.3
45°	1479.7	1124.1	528.7	305.2	242.5	216.6	205.7	194.8	192.1	192.1	192.1
47.5°	1513.8	1132.3	513.7	291.6	231.6	207.1	197.6	188.0	185.3	185.3	185.3
50°	1541.0	1139.1	491.9	276.6	219.4	198.9	189.4	179.9	177.1	177.1	177.1
52.5°	1568.3	1140.4	468.7	258.9	207.1	189.4	181.2	171.7	169.0	167.6	167.6
55°	1592.8	1139.1	441.5	238.4	193.5	178.5	171.7	163.5	158.1	152.6	155.3
57.5°	1610.5	1137.7	410.1	218.0	179.9	167.6	164.9	154.0	143.1	129.4	132.2
60°	1603.7	1122.7	376.1	192.1	164.9	156.7	156.7	141.7	122.6	115.8	117.2
62.5°	1560.1	1080.5	340.6	164.9	149.9	145.8	144.4	128.1	113.1	106.3	107.6
65°	1429.3	974.2	288.9	140.3	134.9	133.5	133.5	118.5	104.9	96.7	98.1
67.5°	1230.4	817.5	235.7	118.5	119.9	122.6	122.6	109.0	95.4	87.2	88.6
70°	986.5	639.0	188.0	102.2	103.6	107.6	110.4	98.1	85.8	77.7	77.7
72.5°	742.6	485.1	151.2	85.8	92.7	92.7	96.7	87.2	74.9	66.8	68.1
75°	538.2	347.4	119.9	72.2	80.4	79.0	79.0	73.6	64.0	58.6	58.6
77.5°	254.8	182.6	95.4	51.8	62.7	61.3	62.7	58.6	54.5	49.1	50.4
80°	125.4	89.9	61.3	36.8	43.6	45.0	49.1	46.3	45.0	40.9	40.9
82.5°	60.0	35.4	28.6	25.9	30.0	31.3	34.1	34.1	35.4	32.7	32.7
85°	16.4	9.5	12.3	16.4	19.1	20.4	23.2	24.5	24.5	23.2	24.5
87.5°	4.1	4.1	5.5	8.2	9.5	10.9	12.3	12.3	5.5	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)