

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: P799878

Luminaire Tested: **ARCH2-60-727-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

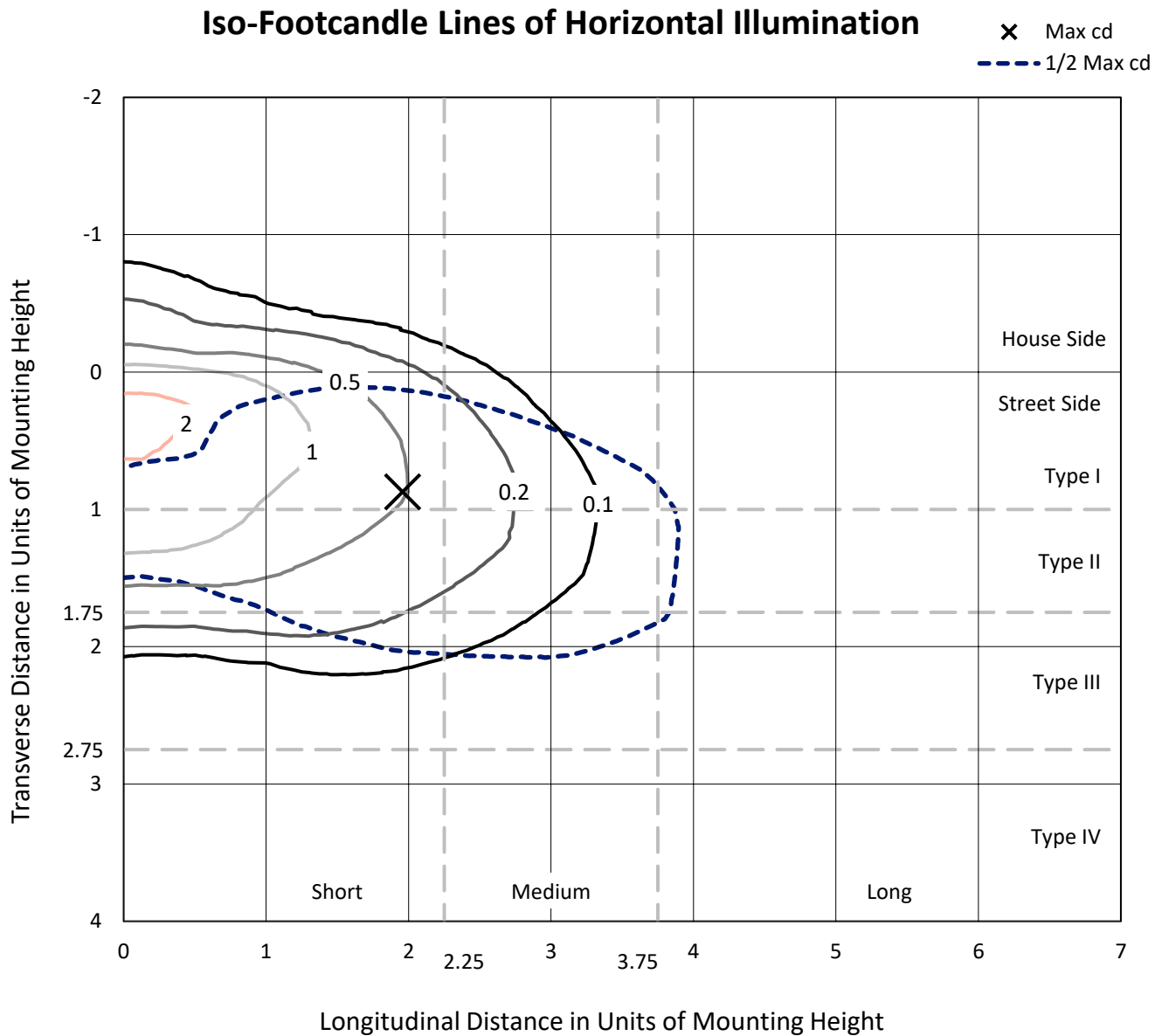
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5972 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

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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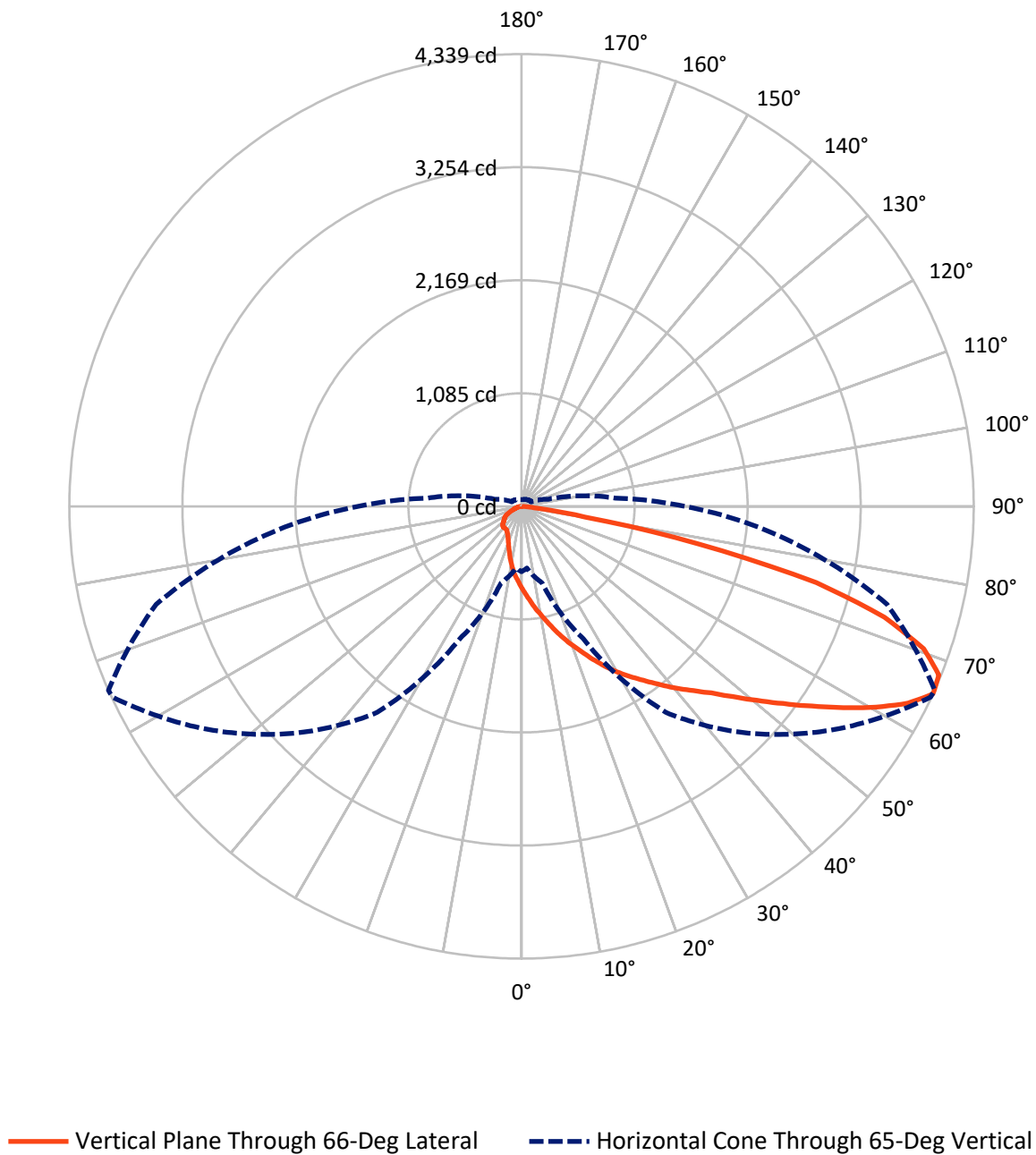


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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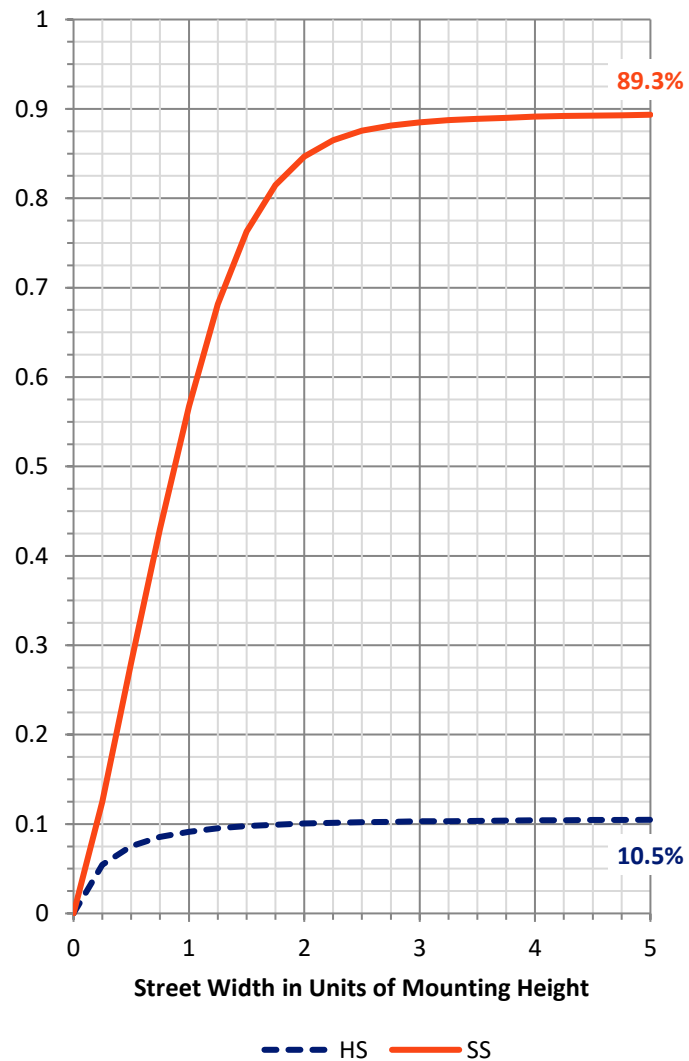
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	631.7	0.0	631.7
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5340.3	0.0	5340.3
	% Fixture	89.4	0.0	89.4
Total	Lumens	5972.0	0.0	5972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	1.3
10°-20°	254.3	4.3
20°-30°	460.0	7.7
30°-40°	719.4	12.0
40°-50°	1091.3	18.3
50°-60°	1386.5	23.2
60°-70°	1295.5	21.7
70°-80°	643.9	10.8
80°-90°	43.3	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°	5972.0	100.0
0°-180°	5972.0	100.0

Coefficient of Utilization



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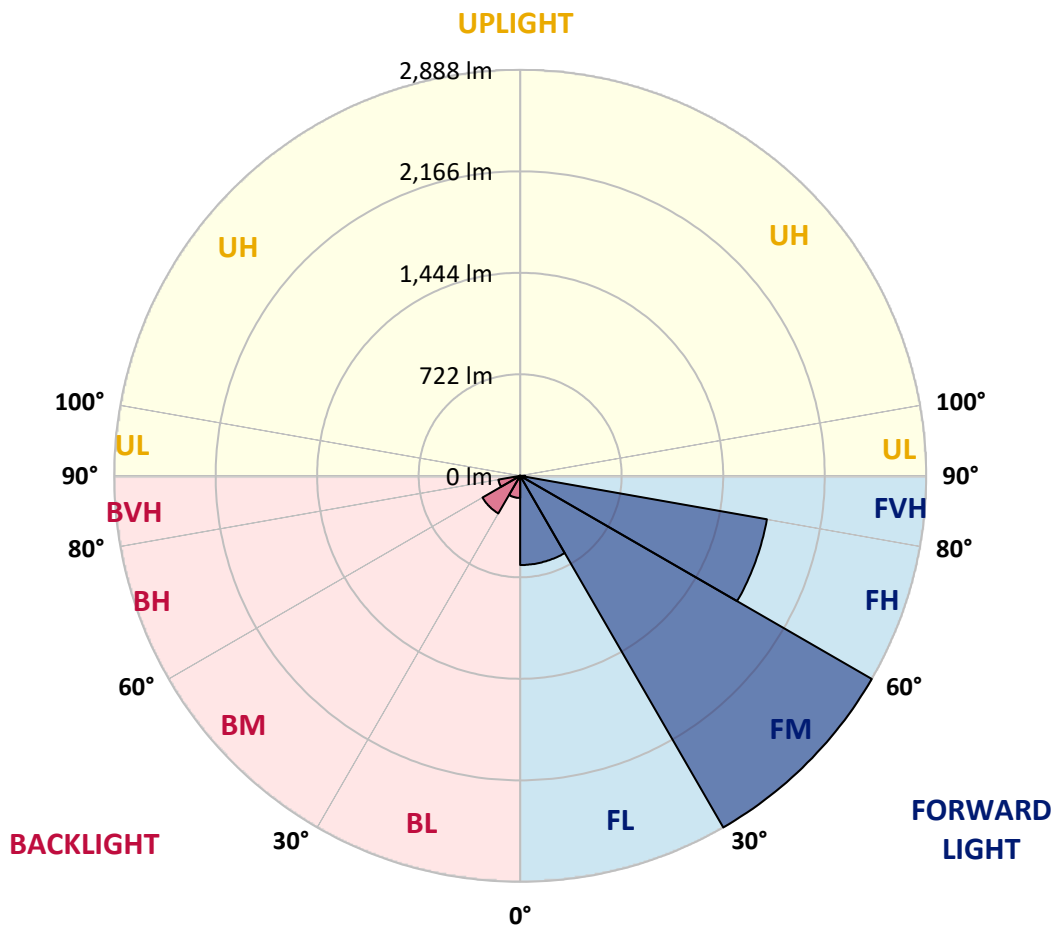
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	634.5	10.6			
FM	(30°-60°)	2888.1	48.4			
FH	(60°-80°)	1782.1	29.8			G1/1800
FVH	(80°-90°)	35.6	0.6			G1/100
BL	(0°-30°)	157.8	2.6	B1/500		
BM	(30°-60°)	309.0	5.2	B1/1000		
BH	(60°-80°)	157.3	2.6	B1/500		G1/500
BVH	(80°-90°)	7.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4
2.5°	923.1	930.6	934.4	935.7	906.8	894.3	881.8	853.0	846.7	830.4	809.1
5°	1086.0	1096.0	1093.5	1088.5	1053.4	1013.3	980.7	926.9	918.1	879.3	831.7
7.5°	1246.3	1255.1	1252.6	1233.8	1194.9	1138.6	1084.7	1005.8	993.3	930.6	854.2
10°	1380.3	1387.8	1386.6	1367.8	1321.4	1252.6	1187.4	1082.2	1067.2	978.2	873.0
12.5°	1490.5	1500.6	1499.3	1486.8	1445.4	1370.3	1296.4	1169.9	1151.1	1035.9	899.3
15°	1577.0	1589.5	1589.5	1584.5	1555.7	1493.0	1409.1	1266.3	1243.8	1102.2	931.9
17.5°	1629.6	1639.6	1648.4	1657.1	1637.1	1589.5	1513.1	1362.8	1339.0	1167.4	965.7
20°	1657.1	1667.1	1673.4	1692.2	1696.0	1672.2	1612.0	1458.0	1432.9	1241.3	1004.5
22.5°	1702.2	1711.0	1712.2	1728.5	1736.0	1742.3	1704.7	1551.9	1531.9	1322.7	1048.4
25°	1777.4	1787.4	1783.6	1791.2	1792.4	1799.9	1796.2	1659.6	1639.6	1415.4	1101.0
27.5°	1873.8	1886.3	1883.8	1876.3	1865.1	1858.8	1875.1	1768.6	1749.8	1508.1	1154.9
30°	1977.8	1992.8	1989.1	1974.0	1944.0	1917.7	1940.2	1871.3	1853.8	1603.3	1215.0
32.5°	2083.0	2100.5	2099.3	2074.2	2022.9	1977.8	2011.6	1967.8	1955.2	1706.0	1280.1
35°	2151.9	2174.4	2171.9	2156.9	2090.5	2051.7	2093.0	2066.7	2057.9	1831.2	1374.1
37.5°	2263.4	2287.2	2265.9	2228.3	2151.9	2131.8	2181.9	2178.2	2171.9	1964.0	1473.0
40°	2533.9	2569.0	2512.6	2358.6	2233.3	2215.8	2287.2	2302.2	2295.9	2095.5	1561.9
42.5°	2817.0	2869.6	2781.9	2569.0	2381.1	2317.2	2402.4	2423.7	2416.2	2208.3	1642.1
45°	2988.6	3011.1	2923.5	2758.1	2642.9	2440.0	2525.1	2560.2	2554.0	2343.5	1744.8
47.5°	3128.9	3120.1	3019.9	2908.4	2929.7	2612.8	2664.2	2733.1	2728.1	2492.6	1857.5
50°	3158.9	3138.9	3098.8	3028.7	3085.0	2788.2	2810.7	2929.7	2924.7	2657.9	1971.5
52.5°	2947.3	2921.0	3029.9	3088.8	3070.0	2915.9	2972.3	3145.2	3142.7	2837.0	2080.5
55°	2418.7	2397.4	2690.5	2994.9	3053.7	3006.1	3151.4	3369.4	3383.1	3027.4	2179.4
57.5°	1902.6	1880.1	2168.2	2759.4	2993.6	3088.8	3360.6	3626.1	3643.7	3234.1	2273.4
60°	1516.8	1483.0	1703.5	2388.6	2880.9	3152.7	3562.3	3908.0	3910.5	3423.2	2331.0
62.5°	1030.9	993.3	1237.5	1918.9	2691.7	3162.7	3717.6	4151.0	4161.0	3564.8	2341.0
65°	626.3	595.0	760.3	1401.6	2412.4	3077.5	3720.1	4330.1	4338.8	3629.9	2280.9
67.5°	363.2	350.7	434.6	873.0	1949.0	2848.3	3563.5	4302.5	4318.8	3602.3	2144.4
70°	211.7	210.4	241.7	432.1	1375.3	2393.6	3214.1	4070.8	4094.6	3458.3	1935.2
72.5°	155.3	157.8	170.3	231.7	796.6	1723.5	2721.8	3604.8	3641.2	3176.5	1637.1
75°	122.8	124.0	135.3	157.8	418.4	974.5	2039.2	2893.4	2922.2	2674.2	1278.9
77.5°	91.4	93.9	102.7	111.5	194.1	447.2	1147.3	1782.4	1734.8	1468.0	617.5
80°	66.4	72.6	76.4	80.2	102.7	172.9	344.5	621.3	616.3	641.3	291.8
82.5°	42.6	47.6	51.4	53.9	61.4	82.7	102.7	139.0	150.3	249.3	116.5
85°	18.8	21.3	23.8	28.8	26.3	28.8	42.6	27.6	23.8	37.6	21.3
87.5°	0.0	0.0	3.8	6.3	5.0	2.5	7.5	5.0	3.8	3.8	3.8
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°	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4
2.5°	797.9	784.1	755.3	727.7	711.5	690.2	671.4	653.8	652.6	647.6	638.8
5°	807.9	781.6	727.7	676.4	637.5	596.2	561.1	533.6	523.6	516.1	506.0
7.5°	817.9	776.6	696.4	621.3	559.9	502.3	460.9	423.4	412.1	402.1	395.8
10°	821.7	767.8	660.1	559.9	479.7	418.4	374.5	347.0	336.9	331.9	328.2
12.5°	832.9	762.8	626.3	502.3	409.6	353.2	321.9	305.6	301.9	298.1	294.4
15°	848.0	762.8	592.5	445.9	354.5	309.4	290.6	279.3	276.8	275.6	273.1
17.5°	864.3	762.8	559.9	398.3	314.4	280.6	266.8	260.5	259.3	258.0	256.8
20°	886.8	764.1	524.8	357.0	285.6	259.3	248.0	240.5	239.2	238.0	238.0
22.5°	909.4	766.6	491.0	325.7	266.8	243.0	229.2	221.7	219.2	219.2	219.2
25°	938.2	774.1	459.7	299.4	250.5	228.0	210.4	204.2	202.9	202.9	201.7
27.5°	972.0	782.8	432.1	279.3	234.2	210.4	192.9	186.6	184.1	184.1	182.9
30°	1008.3	791.6	409.6	264.3	217.9	192.9	176.6	169.1	166.6	167.8	166.6
32.5°	1048.4	804.1	392.0	254.3	202.9	177.9	162.8	154.1	152.8	152.8	151.6
35°	1116.0	839.2	389.5	249.3	190.4	166.6	151.6	142.8	141.5	141.5	140.3
37.5°	1188.7	879.3	400.8	246.8	180.4	156.6	142.8	134.0	132.8	132.8	132.8
40°	1250.0	909.4	413.3	246.8	174.1	147.8	135.3	127.8	127.8	127.8	127.8
42.5°	1291.4	911.9	410.8	246.8	169.1	141.5	130.3	122.8	122.8	124.0	122.8
45°	1352.8	924.4	400.8	243.0	165.3	136.5	125.3	119.0	117.7	119.0	119.0
47.5°	1425.4	946.9	390.8	228.0	164.1	131.5	121.5	114.0	112.7	114.0	112.7
50°	1494.3	967.0	385.8	207.9	161.6	126.5	116.5	109.0	107.7	109.0	107.7
52.5°	1551.9	975.7	377.0	194.1	155.3	121.5	111.5	104.0	101.5	102.7	102.7
55°	1598.3	973.2	364.5	182.9	144.0	116.5	105.2	99.0	95.2	95.2	93.9
57.5°	1640.8	974.5	353.2	171.6	131.5	109.0	100.2	92.7	87.7	86.4	85.2
60°	1657.1	968.2	333.2	156.6	119.0	102.7	93.9	85.2	80.2	78.9	77.7
62.5°	1634.6	945.7	306.9	130.3	107.7	95.2	87.7	78.9	73.9	72.6	71.4
65°	1570.7	903.1	266.8	102.7	97.7	86.4	80.2	73.9	67.6	65.1	63.9
67.5°	1461.7	841.7	216.7	82.7	86.4	78.9	75.2	67.6	60.1	57.6	56.4
70°	1306.4	760.3	162.8	70.1	76.4	70.1	67.6	60.1	53.9	51.4	50.1
72.5°	1088.5	628.8	114.0	60.1	66.4	61.4	58.9	53.9	47.6	43.8	43.8
75°	822.9	450.9	75.2	51.4	55.1	52.6	48.8	45.1	41.3	38.8	37.6
77.5°	354.5	175.4	46.3	38.8	45.1	43.8	38.8	36.3	35.1	32.6	32.6
80°	152.8	71.4	28.8	28.8	32.6	31.3	30.1	27.6	27.6	26.3	25.1
82.5°	56.4	28.8	17.5	21.3	23.8	21.3	21.3	21.3	21.3	20.0	20.0
85°	13.8	8.8	8.8	12.5	13.8	12.5	13.8	12.5	12.5	12.5	11.3
87.5°	3.8	3.8	5.0	5.0	5.0	5.0	5.0	3.8	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)