

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: P800246

Luminaire Tested: **ARCH2-90-722-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800246
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: ARCH2-90-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

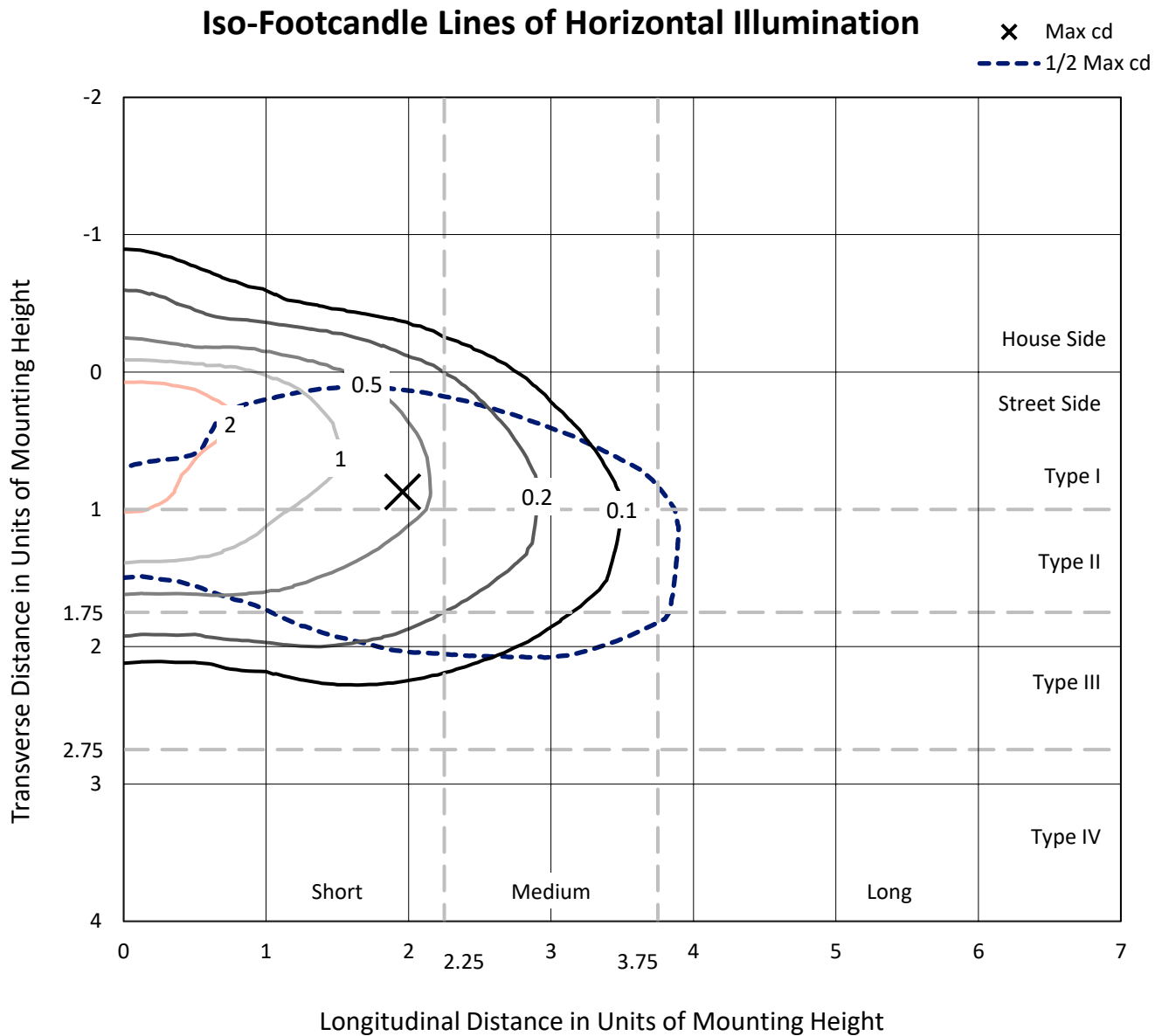
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7226 lumens
Efficiency: N/A
Efficacy: 77.1 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): 93.7
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

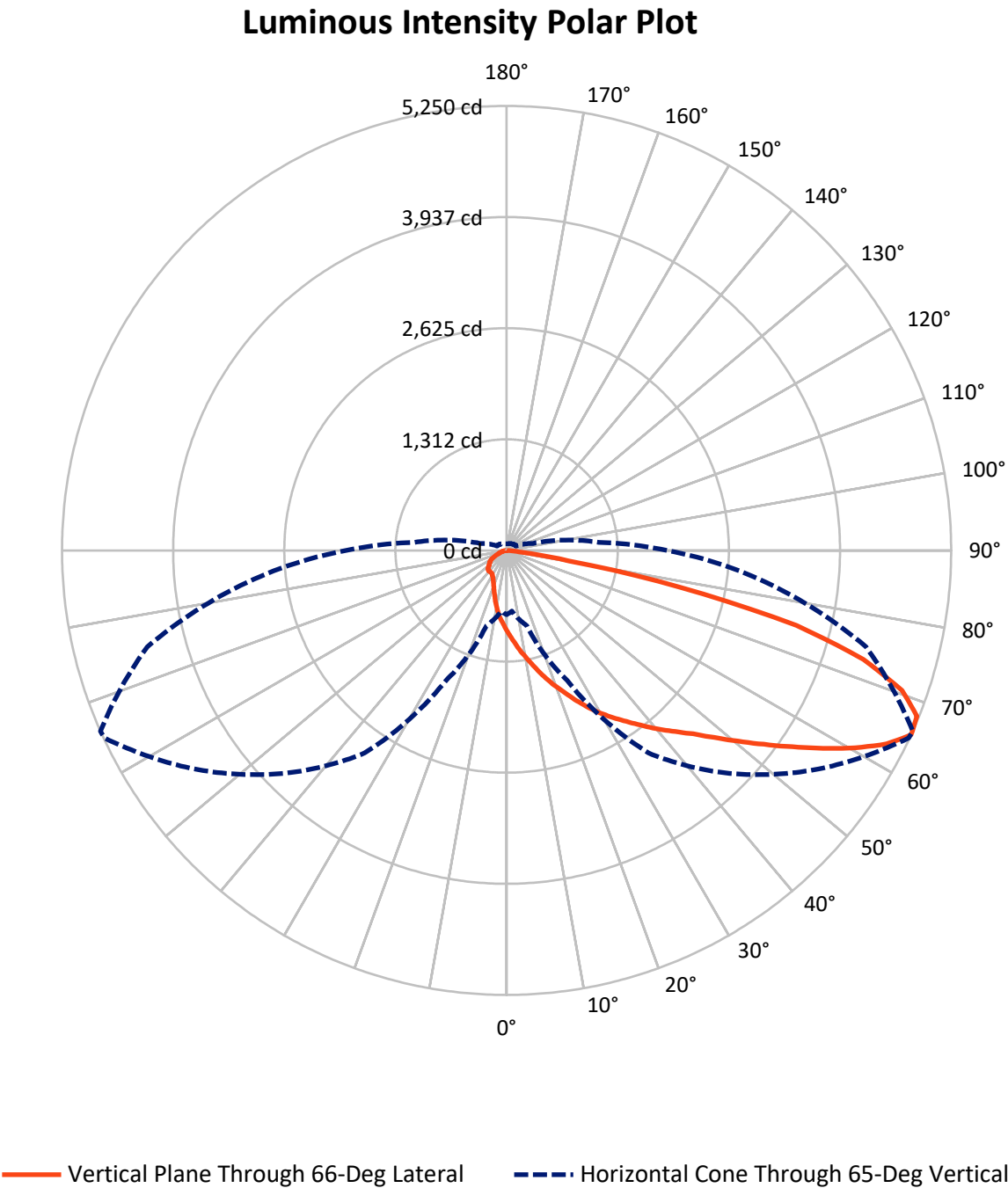


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Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type III - Short - N/A

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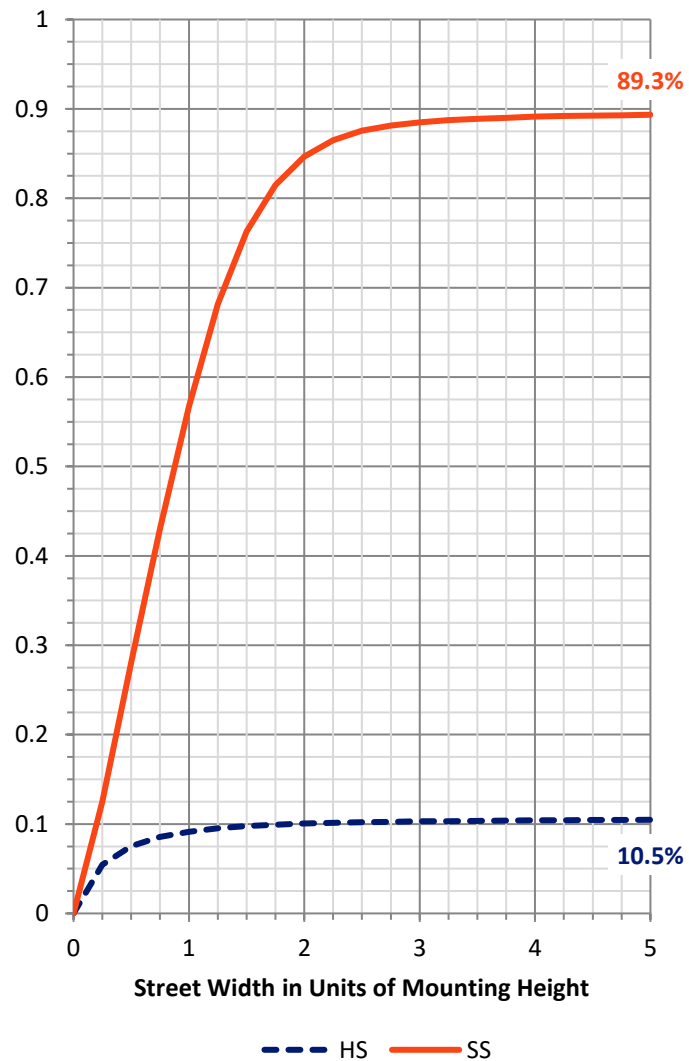
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	764.3	0.0	764.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	6461.7	0.0	6461.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	7226.0	0.0	7226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	1.3
10°-20°	307.6	4.3
20°-30°	556.6	7.7
30°-40°	870.4	12.0
40°-50°	1320.4	18.3
50°-60°	1677.6	23.2
60°-70°	1567.5	21.7
70°-80°	779.1	10.8
80°-90°	52.3	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°	7226.0	100.0
0°-180°	7226.0	100.0

Coefficient of Utilization



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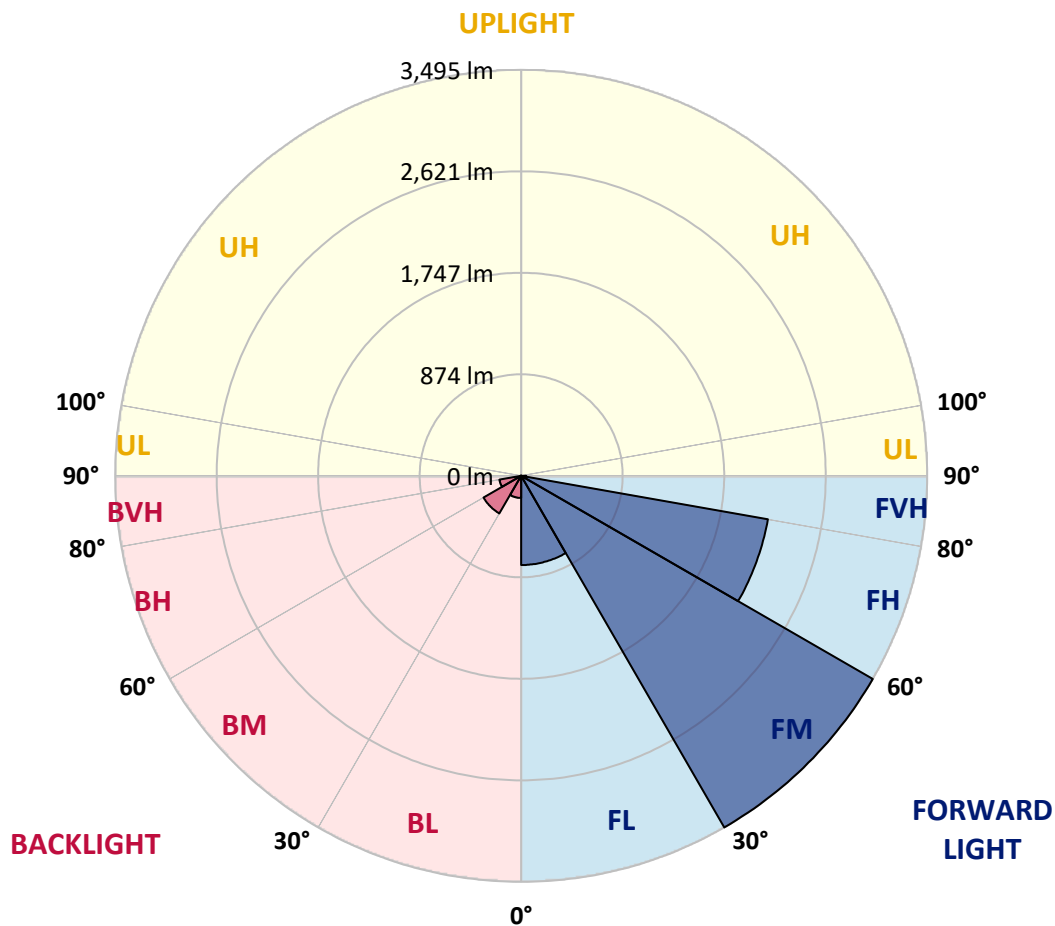
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	767.8	10.6			
FM	(30°-60°)	3494.6	48.4			
FH	(60°-80°)	2156.3	29.8			G2/5000
FVH	(80°-90°)	43.1	0.6			G1/100
BL	(0°-30°)	190.9	2.6	B1/500		
BM	(30°-60°)	373.8	5.2	B1/1000		
BH	(60°-80°)	190.3	2.6	B1/500		G1/500
BVH	(80°-90°)	9.3	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	956.3	956.3	956.3	956.3	956.3	956.3	956.3	956.3	956.3	956.3	956.3
2.5°	1117.0	1126.1	1130.6	1132.1	1097.3	1082.1	1067.0	1032.1	1024.5	1004.8	979.1
5°	1314.0	1326.1	1323.1	1317.0	1274.6	1226.1	1186.7	1121.5	1110.9	1063.9	1006.3
7.5°	1508.0	1518.6	1515.6	1492.8	1445.8	1377.6	1312.5	1217.0	1201.8	1126.1	1033.6
10°	1670.2	1679.2	1677.7	1655.0	1598.9	1515.6	1436.8	1309.4	1291.3	1183.7	1056.3
12.5°	1803.5	1815.6	1814.1	1799.0	1749.0	1658.0	1568.6	1415.5	1392.8	1253.4	1088.2
15°	1908.1	1923.3	1923.3	1917.2	1882.3	1806.6	1705.0	1532.2	1505.0	1333.7	1127.6
17.5°	1971.7	1983.9	1994.5	2005.1	1980.8	1923.3	1830.8	1648.9	1620.1	1412.5	1168.5
20°	2005.1	2017.2	2024.8	2047.5	2052.1	2023.3	1950.5	1764.1	1733.8	1501.9	1215.5
22.5°	2059.7	2070.3	2071.8	2091.5	2100.6	2108.2	2062.7	1877.8	1853.5	1600.4	1268.5
25°	2150.6	2162.7	2158.2	2167.3	2168.8	2177.9	2173.3	2008.1	1983.9	1712.6	1332.2
27.5°	2267.3	2282.4	2279.4	2270.3	2256.7	2249.1	2268.8	2140.0	2117.2	1824.7	1397.4
30°	2393.1	2411.3	2406.7	2388.5	2352.2	2320.3	2347.6	2264.3	2243.0	1939.9	1470.1
32.5°	2520.4	2541.6	2540.1	2509.8	2447.6	2393.1	2434.0	2381.0	2365.8	2064.2	1548.9
35°	2603.7	2631.0	2628.0	2609.8	2529.5	2482.5	2532.5	2500.7	2490.1	2215.8	1662.6
37.5°	2738.6	2767.4	2741.7	2696.2	2603.7	2579.5	2640.1	2635.6	2628.0	2376.4	1782.3
40°	3066.0	3108.4	3040.2	2853.8	2702.3	2681.0	2767.4	2785.6	2778.0	2535.5	1889.9
42.5°	3408.5	3472.2	3366.1	3108.4	2881.1	2803.8	2906.9	2932.6	2923.5	2671.9	1986.9
45°	3616.1	3643.4	3537.3	3337.3	3197.8	2952.3	3055.4	3097.8	3090.2	2835.6	2111.2
47.5°	3785.9	3775.3	3654.0	3519.1	3544.9	3161.5	3223.6	3307.0	3300.9	3016.0	2247.6
50°	3822.3	3798.0	3749.5	3664.6	3732.8	3373.6	3400.9	3544.9	3538.8	3216.0	2385.5
52.5°	3566.1	3534.3	3666.2	3737.4	3714.6	3528.2	3596.4	3805.6	3802.6	3432.8	2517.4
55°	2926.6	2900.8	3255.4	3623.7	3694.9	3637.4	3813.2	4076.9	4093.5	3663.1	2637.1
57.5°	2302.1	2274.9	2623.4	3338.8	3622.2	3737.4	4066.3	4387.6	4408.8	3913.2	2750.8
60°	1835.3	1794.4	2061.2	2890.2	3485.8	3814.7	4310.3	4728.6	4731.6	4142.0	2820.5
62.5°	1247.3	1201.8	1497.4	2321.8	3256.9	3826.8	4498.2	5022.6	5034.7	4313.3	2832.6
65°	757.8	719.9	919.9	1695.9	2919.0	3723.7	4501.2	5239.3	5249.9	4392.1	2759.8
67.5°	439.5	424.4	525.9	1056.3	2358.2	3446.4	4311.8	5206.0	5225.7	4358.8	2594.6
70°	256.1	254.6	292.5	522.9	1664.1	2896.2	3888.9	4925.6	4954.4	4184.5	2341.5
72.5°	187.9	191.0	206.1	280.4	963.9	2085.4	3293.3	4361.8	4405.7	3843.5	1980.8
75°	148.5	150.0	163.7	191.0	506.2	1179.1	2467.3	3501.0	3535.8	3235.7	1547.4
77.5°	110.6	113.7	124.3	134.9	234.9	541.1	1388.3	2156.6	2099.1	1776.2	747.2
80°	80.3	87.9	92.4	97.0	124.3	209.1	416.8	751.7	745.7	776.0	353.1
82.5°	51.5	57.6	62.1	65.2	74.3	100.0	124.3	168.2	181.9	301.6	140.9
85°	22.7	25.8	28.8	34.9	31.8	34.9	51.5	33.3	28.8	45.5	25.8
87.5°	0.0	0.0	4.5	7.6	6.1	3.0	9.1	6.1	4.5	4.5	4.5
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°	956.3	956.3	956.3	956.3	956.3	956.3	956.3	956.3	956.3	956.3	956.3
2.5°	965.4	948.7	913.9	880.5	860.8	835.1	812.3	791.1	789.6	783.5	772.9
5°	977.5	945.7	880.5	818.4	771.4	721.4	679.0	645.6	633.5	624.4	612.3
7.5°	989.7	939.7	842.7	751.7	677.5	607.7	557.7	512.3	498.6	486.5	478.9
10°	994.2	929.0	798.7	677.5	580.5	506.2	453.2	419.8	407.7	401.6	397.1
12.5°	1007.9	923.0	757.8	607.7	495.6	427.4	389.5	369.8	365.3	360.7	356.2
15°	1026.0	923.0	716.9	539.5	428.9	374.3	351.6	338.0	334.9	333.4	330.4
17.5°	1045.7	923.0	677.5	481.9	380.4	339.5	322.8	315.2	313.7	312.2	310.7
20°	1073.0	924.5	635.0	431.9	345.5	313.7	300.1	291.0	289.5	288.0	288.0
22.5°	1100.3	927.5	594.1	394.0	322.8	294.0	277.3	268.3	265.2	265.2	265.2
25°	1135.2	936.6	556.2	362.2	303.1	275.8	254.6	247.0	245.5	245.5	244.0
27.5°	1176.1	947.2	522.9	338.0	283.4	254.6	233.4	225.8	222.8	222.8	221.3
30°	1220.0	957.8	495.6	319.8	263.7	233.4	213.7	204.6	201.6	203.1	201.6
32.5°	1268.5	973.0	474.4	307.7	245.5	215.2	197.0	186.4	184.9	184.9	183.4
35°	1350.4	1015.4	471.3	301.6	230.4	201.6	183.4	172.8	171.3	171.3	169.7
37.5°	1438.3	1063.9	485.0	298.6	218.2	189.4	172.8	162.2	160.6	160.6	160.6
40°	1512.5	1100.3	500.1	298.6	210.7	178.8	163.7	154.6	154.6	154.6	154.6
42.5°	1562.5	1103.3	497.1	298.6	204.6	171.3	157.6	148.5	148.5	150.0	148.5
45°	1636.8	1118.5	485.0	294.0	200.1	165.2	151.6	144.0	142.5	144.0	144.0
47.5°	1724.7	1145.8	472.9	275.8	198.5	159.1	147.0	137.9	136.4	137.9	136.4
50°	1808.1	1170.0	466.8	251.6	195.5	153.1	140.9	131.9	130.3	131.9	130.3
52.5°	1877.8	1180.6	456.2	234.9	187.9	147.0	134.9	125.8	122.8	124.3	124.3
55°	1933.9	1177.6	441.0	221.3	174.3	140.9	127.3	119.7	115.2	115.2	113.7
57.5°	1985.4	1179.1	427.4	207.6	159.1	131.9	121.2	112.2	106.1	104.6	103.1
60°	2005.1	1171.5	403.1	189.4	144.0	124.3	113.7	103.1	97.0	95.5	94.0
62.5°	1977.8	1144.3	371.3	157.6	130.3	115.2	106.1	95.5	89.4	87.9	86.4
65°	1900.5	1092.7	322.8	124.3	118.2	104.6	97.0	89.4	81.8	78.8	77.3
67.5°	1768.7	1018.5	262.2	100.0	104.6	95.5	90.9	81.8	72.7	69.7	68.2
70°	1580.7	919.9	197.0	84.9	92.4	84.9	81.8	72.7	65.2	62.1	60.6
72.5°	1317.0	760.8	137.9	72.7	80.3	74.3	71.2	65.2	57.6	53.0	53.0
75°	995.7	545.6	90.9	62.1	66.7	63.7	59.1	54.6	50.0	47.0	45.5
77.5°	428.9	212.2	56.1	47.0	54.6	53.0	47.0	44.0	42.4	39.4	39.4
80°	184.9	86.4	34.9	34.9	39.4	37.9	36.4	33.3	33.3	31.8	30.3
82.5°	68.2	34.9	21.2	25.8	28.8	25.8	25.8	25.8	25.8	24.2	24.2
85°	16.7	10.6	10.6	15.2	16.7	15.2	16.7	15.2	15.2	15.2	13.6
87.5°	4.5	4.5	6.1	6.1	6.1	6.1	6.1	4.5	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)