

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: P1211060

Luminaire Tested: **ARCH4-160-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15813 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

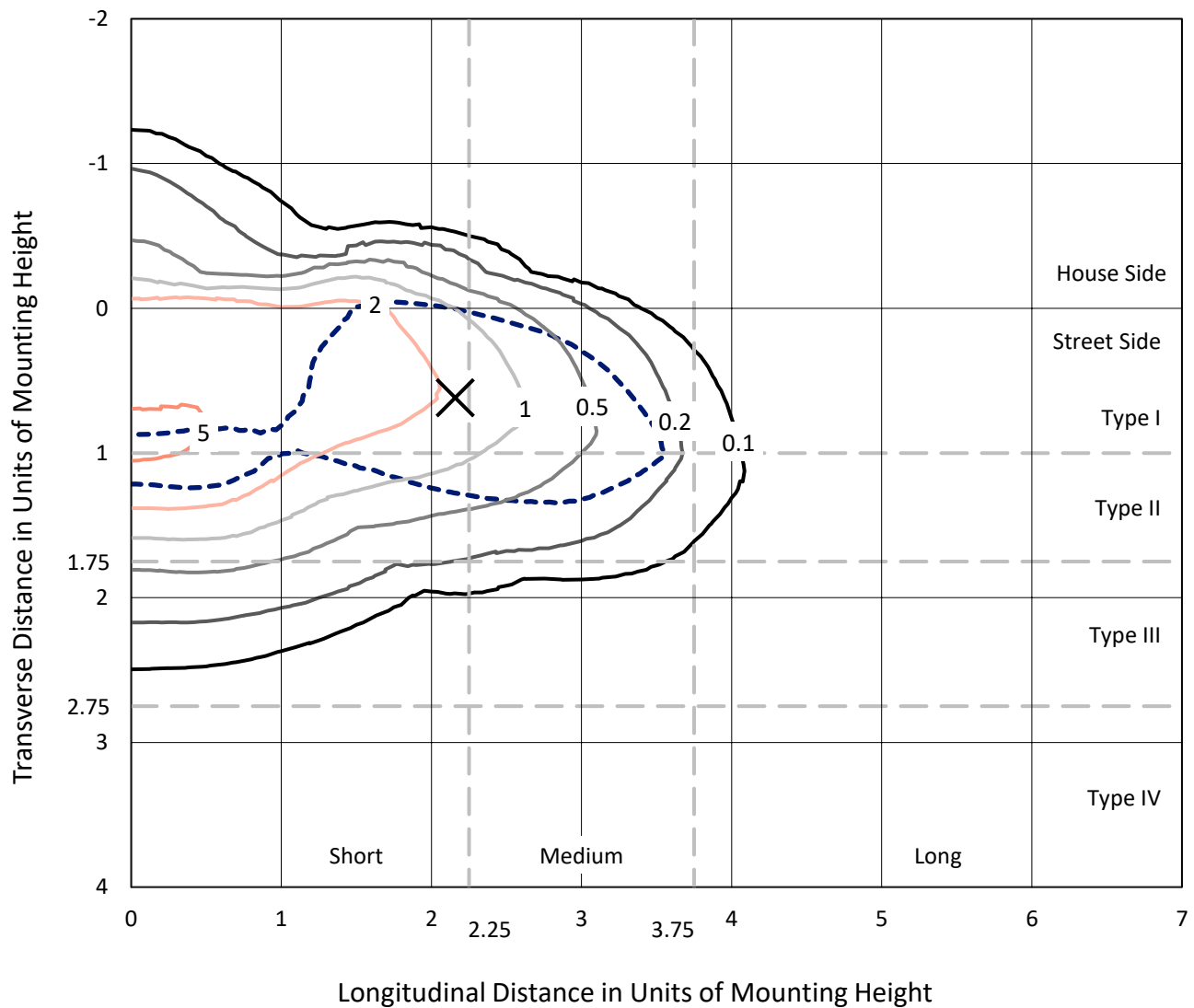
Input Watts (W): 160.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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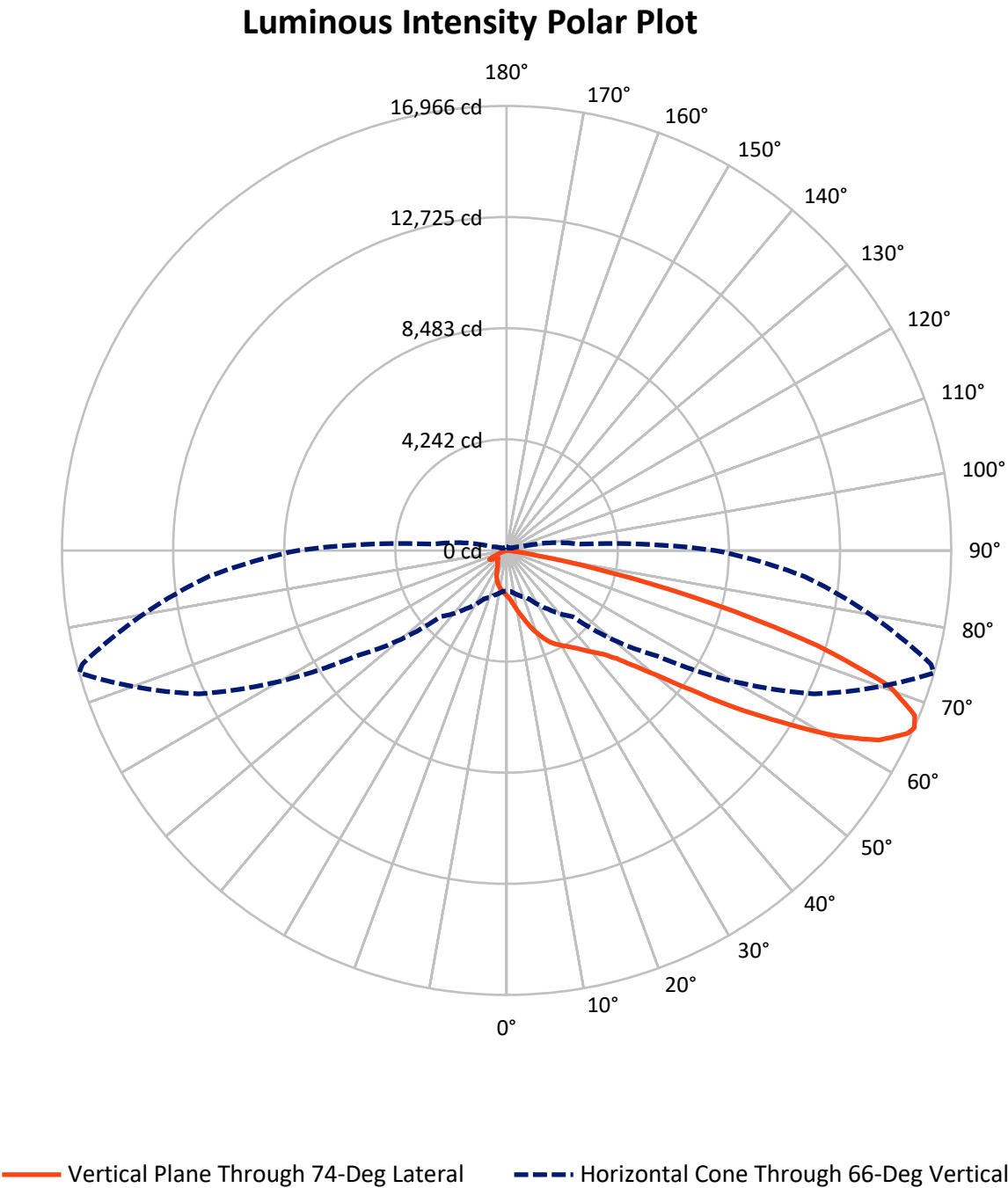
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type II - Short - N/A

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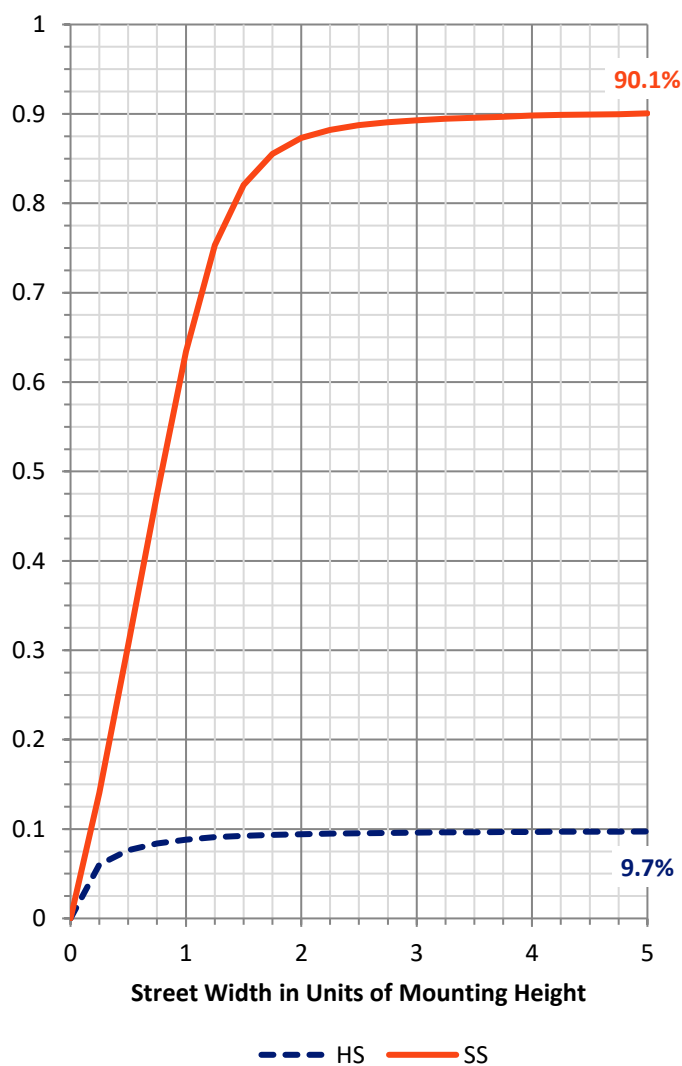
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1550.2	0.0	1550.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	14262.8	0.0	14262.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	15813.0	0.0	15813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	1.1
10°-20°	540.1	3.4
20°-30°	1030.8	6.5
30°-40°	1806.7	11.4
40°-50°	3098.1	19.6
50°-60°	4029.3	25.5
60°-70°	3647.5	23.1
70°-80°	1407.4	8.9
80°-90°	84.7	0.5
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°	15813.0	100.0
0°-180°	15813.0	100.0

Coefficient of Utilization



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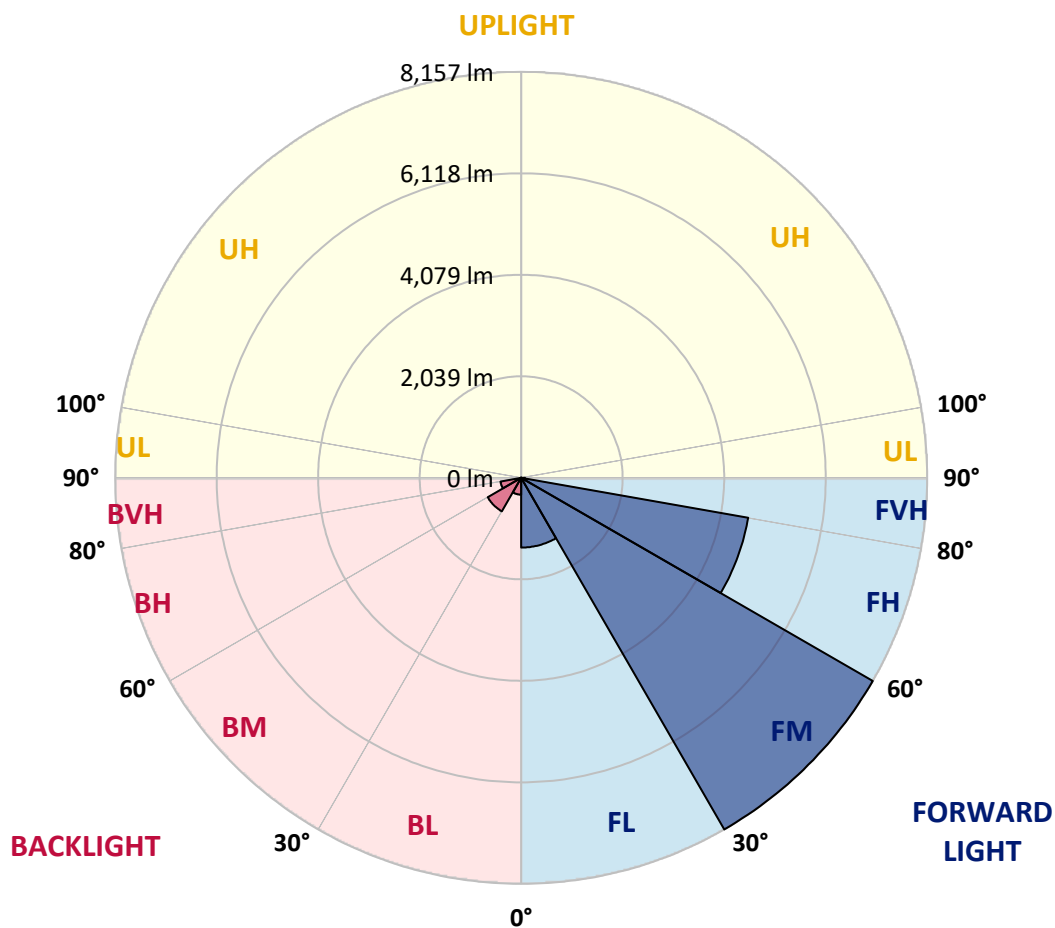
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1401.3	8.9			
FM	(30°-60°)	8157.1	51.6			
FH	(60°-80°)	4631.1	29.3			G2/5000
FVH	(80°-90°)	73.3	0.5			G1/100
BL	(0°-30°)	338.1	2.1	B1/500		
BM	(30°-60°)	776.9	4.9	B1/1000		
BH	(60°-80°)	423.8	2.7	B1/500		G1/500
BVH	(80°-90°)	11.4	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1
2.5°	2072.5	2055.5	2024.2	2021.4	1995.8	1964.6	1910.7	1853.9	1814.1	1808.5	1760.2
5°	2481.3	2472.8	2441.6	2421.7	2373.4	2299.6	2174.7	2049.8	1944.7	1933.4	1825.5
7.5°	2589.2	2594.9	2600.5	2620.4	2603.4	2569.3	2475.6	2299.6	2134.9	2109.4	1922.0
10°	2606.2	2600.5	2600.5	2626.1	2674.4	2722.6	2711.3	2560.8	2347.9	2316.6	2055.5
12.5°	2790.8	2799.3	2779.4	2768.0	2759.5	2785.1	2870.3	2805.0	2572.2	2546.6	2217.3
15°	3029.2	3026.4	2998.0	2998.0	2972.5	2929.9	2983.8	3032.1	2841.9	2810.6	2401.8
17.5°	3202.4	3213.8	3210.9	3228.0	3219.5	3162.7	3134.3	3233.6	3120.1	3080.3	2611.9
20°	3341.5	3372.8	3384.1	3438.1	3463.6	3423.9	3350.0	3412.5	3387.0	3350.0	2824.8
22.5°	3489.2	3514.7	3534.6	3628.3	3699.2	3690.7	3597.0	3582.8	3645.3	3611.2	3034.9
25°	3636.8	3648.1	3707.8	3821.3	3934.9	3963.3	3866.7	3756.0	3878.1	3846.9	3222.3
27.5°	3798.6	3804.3	3875.3	4014.4	4173.4	4233.0	4156.3	3951.9	4057.0	4057.0	3392.6
30°	4093.9	4150.7	4179.0	4304.0	4443.1	4525.4	4434.6	4159.2	4215.9	4241.5	3571.5
32.5°	4729.8	4738.3	4729.8	4783.8	4812.1	4860.4	4755.4	4392.0	4377.8	4406.2	3747.5
35°	5700.8	5666.7	5575.8	5496.3	5331.7	5240.8	5104.6	4690.1	4576.5	4616.3	3920.7
37.5°	6879.0	6830.7	6623.4	6379.3	6027.2	5663.8	5493.5	5053.5	4829.2	4880.3	4108.1
40°	8003.2	7972.0	7725.0	7424.0	6822.2	6200.4	5839.9	5360.1	5110.2	5130.1	4298.3
42.5°	8928.7	8923.0	8715.8	8400.7	7628.5	6779.6	6248.7	5661.0	5405.5	5436.7	4497.0
45°	9630.0	9576.0	9422.7	9195.6	8409.2	7381.5	6742.7	6118.1	5879.6	5916.5	4795.1
47.5°	9630.0	9638.5	9737.8	9715.1	8954.3	7946.4	7282.1	6694.4	6580.9	6614.9	5286.3
50°	8846.4	8925.9	9368.8	9740.7	9238.2	8386.5	7864.1	7415.5	7531.9	7583.0	6143.6
52.5°	7296.3	7429.7	8199.1	9048.0	9028.1	8607.9	8466.0	8332.5	8854.9	8945.8	7409.8
55°	5544.6	5632.6	6634.8	7750.5	8113.9	8426.2	8991.2	9496.5	10606.6	10586.7	8695.9
57.5°	4142.1	4224.5	5087.5	6325.3	6805.1	7639.8	9260.9	10828.0	12344.1	12420.7	9902.5
60°	3046.3	3108.7	3844.0	4860.4	5553.1	6436.1	9153.0	12139.7	14345.6	14257.6	10967.1
62.5°	2254.2	2288.3	2819.1	3480.6	4400.5	5243.7	8474.5	13036.8	15944.0	15765.1	11560.5
65°	1743.2	1754.5	2029.9	2381.9	3199.6	4076.8	7463.8	13173.1	16826.9	16636.7	11549.1
66°	1552.9	1561.5	1763.0	2035.6	2722.6	3568.7	7020.9	12954.5	16966.0	16764.4	11407.2
67.5°	1303.1	1297.4	1416.7	1595.5	2044.1	2753.9	6234.5	12315.7	16801.3	16699.1	10952.9
70°	965.3	968.1	1027.7	1070.3	1195.2	1524.6	4502.7	10683.2	15484.0	15478.4	9706.6
72.5°	715.4	724.0	769.4	777.9	746.7	826.2	2594.9	8497.2	12386.7	12389.5	7256.5
75°	536.6	550.8	565.0	570.6	542.3	522.4	1172.5	5717.8	8148.0	8088.4	4108.1
77.5°	408.8	414.5	425.9	417.3	411.7	360.6	488.3	2787.9	4022.9	3665.2	1331.5
80°	298.1	298.1	309.5	298.1	295.3	258.4	266.9	894.3	1181.0	982.3	286.7
82.5°	187.4	184.5	193.1	190.2	184.5	164.7	156.1	249.8	272.5	244.2	139.1
85°	105.0	102.2	99.4	96.5	88.0	73.8	85.2	93.7	124.9	127.8	99.4
87.5°	36.9	36.9	34.1	31.2	25.6	25.6	31.2	31.2	45.4	45.4	51.1
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°	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1
2.5°	1737.5	1706.3	1660.8	1601.2	1558.6	1516.0	1470.6	1445.1	1408.2	1399.6	1411.0
5°	1768.7	1711.9	1598.4	1473.5	1365.6	1269.0	1178.2	1124.3	1070.3	1050.4	1059.0
7.5°	1834.0	1737.5	1544.4	1342.9	1164.0	1019.2	911.3	848.9	800.6	780.7	786.4
10°	1930.5	1782.9	1493.3	1195.2	965.3	812.0	721.1	681.4	653.0	641.6	644.5
12.5°	2046.9	1848.2	1428.0	1047.6	794.9	661.5	618.9	610.4	604.7	599.0	601.9
15°	2177.5	1905.0	1351.4	902.8	661.5	587.7	573.5	570.6	567.8	567.8	567.8
17.5°	2313.8	1956.1	1266.2	766.5	576.3	542.3	533.7	533.7	533.7	536.6	536.6
20°	2441.6	1995.8	1166.8	644.5	528.1	499.7	494.0	494.0	496.8	499.7	499.7
22.5°	2566.5	2012.9	1050.4	559.3	488.3	462.8	454.2	454.2	454.2	457.1	457.1
25°	2674.4	2012.9	934.0	505.3	454.2	428.7	417.3	414.5	417.3	417.3	417.3
27.5°	2765.2	2004.3	820.5	468.4	420.2	394.6	383.3	380.4	386.1	388.9	388.9
30°	2861.7	1993.0	729.6	434.4	391.8	366.2	354.9	354.9	363.4	374.8	374.8
32.5°	2955.4	2001.5	658.7	406.0	363.4	343.5	332.2	335.0	352.0	369.1	369.1
35°	3054.8	2018.5	616.1	386.1	343.5	323.6	315.1	323.6	340.7	357.7	357.7
37.5°	3154.2	2038.4	590.5	369.1	326.5	306.6	300.9	312.3	332.2	349.2	352.0
40°	3259.2	2055.5	562.1	352.0	315.1	292.4	289.6	300.9	326.5	343.5	346.4
42.5°	3389.8	2089.5	528.1	337.8	303.8	275.4	278.2	286.7	312.3	337.8	340.7
45°	3645.3	2197.4	494.0	323.6	289.6	266.9	261.2	266.9	295.3	323.6	329.3
47.5°	4125.1	2441.6	457.1	309.5	275.4	261.2	238.5	244.2	269.7	300.9	303.8
50°	5044.9	2961.1	437.2	295.3	264.0	241.3	215.8	215.8	235.6	264.0	264.0
52.5°	6478.6	3892.3	448.6	283.9	249.8	221.4	195.9	193.1	204.4	224.3	224.3
55°	8025.9	4914.3	491.2	272.5	232.8	210.1	181.7	167.5	176.0	187.4	187.4
57.5°	9252.4	5428.2	607.6	266.9	212.9	201.6	164.7	144.8	153.3	164.7	164.7
60°	9791.8	5127.3	738.1	272.5	198.7	187.4	147.6	127.8	142.0	153.3	156.1
62.5°	9354.6	4221.6	792.1	258.4	178.9	167.5	144.8	119.2	136.3	144.8	147.6
65°	8409.2	3208.1	618.9	224.3	164.7	144.8	130.6	113.6	127.8	136.3	136.3
66°	7960.6	2796.4	528.1	207.2	159.0	136.3	124.9	113.6	124.9	130.6	133.4
67.5°	7265.1	2205.9	391.8	181.7	147.6	124.9	116.4	107.9	119.2	124.9	124.9
70°	5680.9	1314.5	235.6	142.0	127.8	110.7	105.0	99.4	107.9	110.7	110.7
72.5°	3557.3	624.6	150.5	105.0	107.9	105.0	88.0	93.7	96.5	99.4	99.4
75°	1723.3	247.0	102.2	76.7	88.0	99.4	71.0	82.3	85.2	90.8	88.0
77.5°	479.8	119.2	65.3	56.8	76.7	76.7	53.9	65.3	76.7	96.5	88.0
80°	139.1	76.7	42.6	42.6	53.9	53.9	36.9	45.4	51.1	56.8	59.6
82.5°	96.5	51.1	28.4	31.2	31.2	34.1	22.7	22.7	28.4	28.4	31.2
85°	76.7	22.7	17.0	19.9	14.2	17.0	11.4	11.4	14.2	11.4	11.4
87.5°	31.2	11.4	11.4	11.4	8.5	8.5	5.7	2.8	2.8	2.8	2.8
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)