

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: P1211351

Luminaire Tested: **ARCH4-250-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-250-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31115 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.5
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



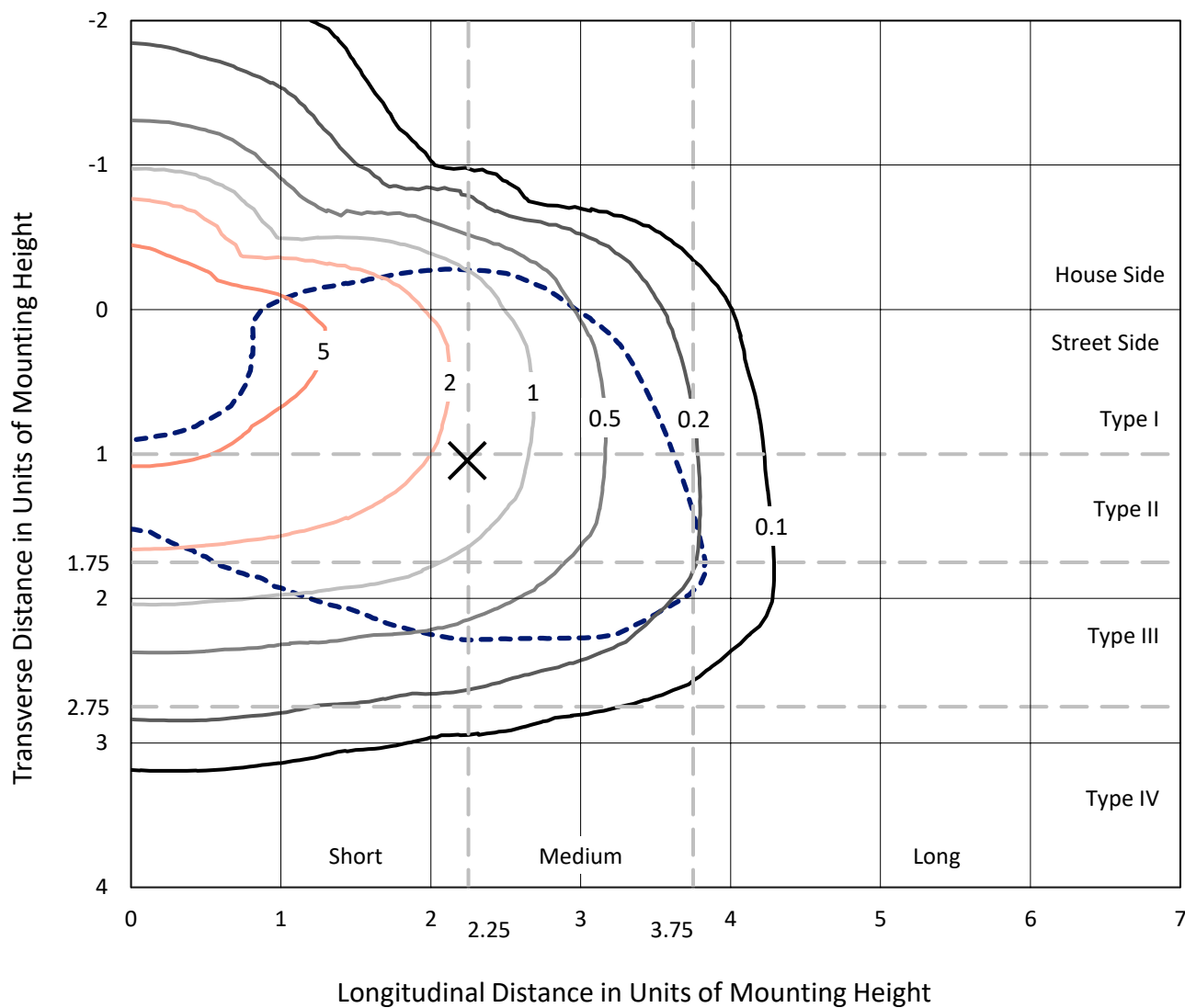
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

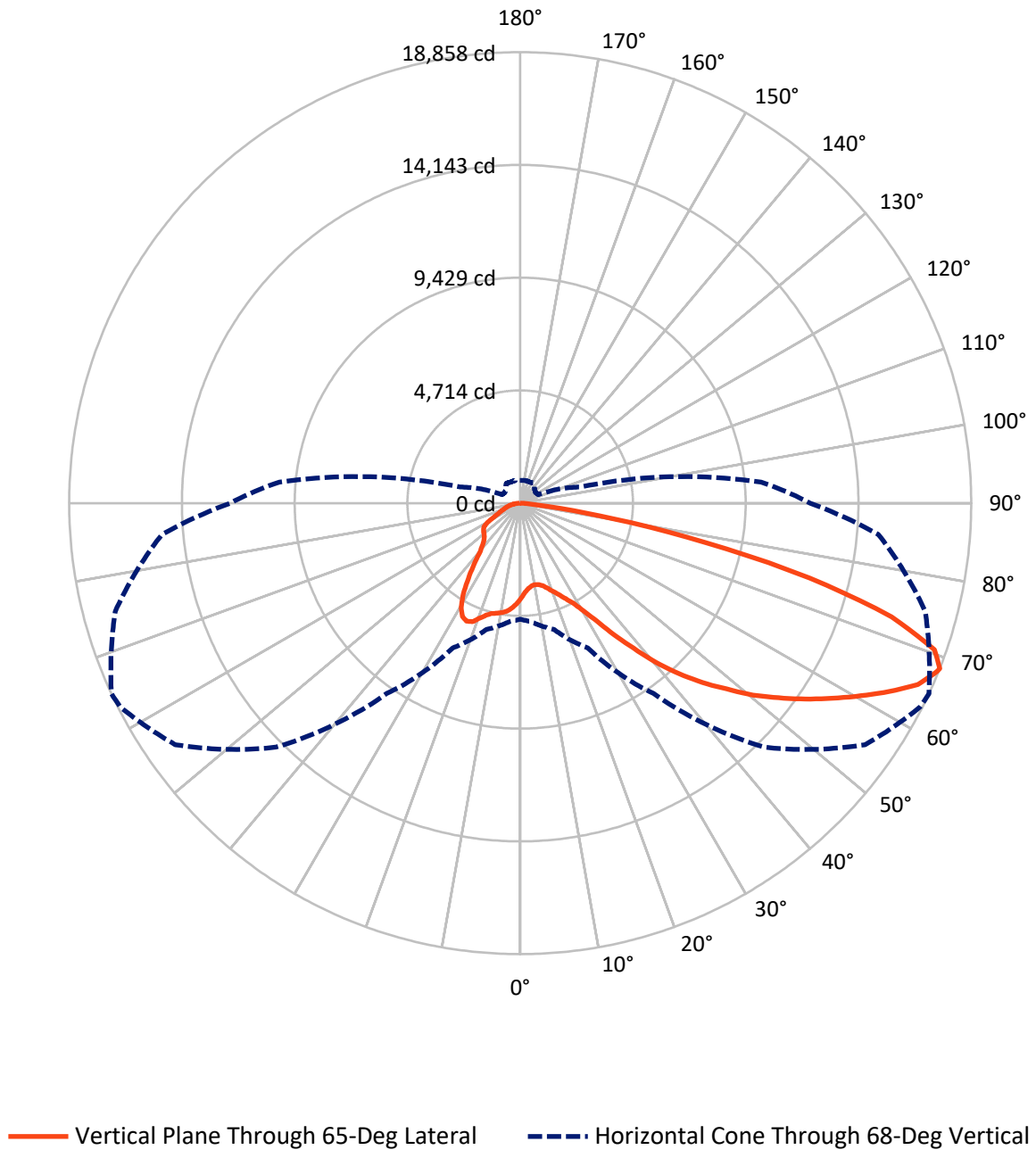


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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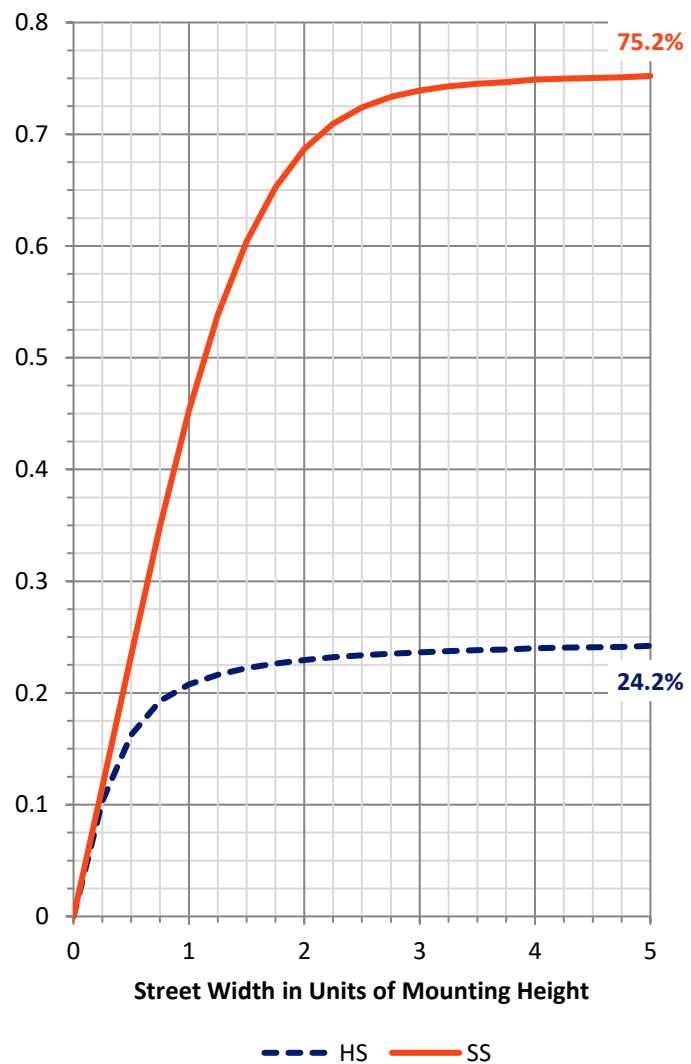
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7628.5	0.0	7628.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	23486.5	0.0	23486.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	31115.0	0.0	31115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.0	1.2
10°-20°	1237.3	4.0
20°-30°	2239.4	7.2
30°-40°	3522.7	11.3
40°-50°	5246.7	16.9
50°-60°	6882.7	22.1
60°-70°	7526.6	24.2
70°-80°	3724.4	12.0
80°-90°	355.3	1.1
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°	31115.0	100.0
0°-180°	31115.0	100.0

Coefficient of Utilization



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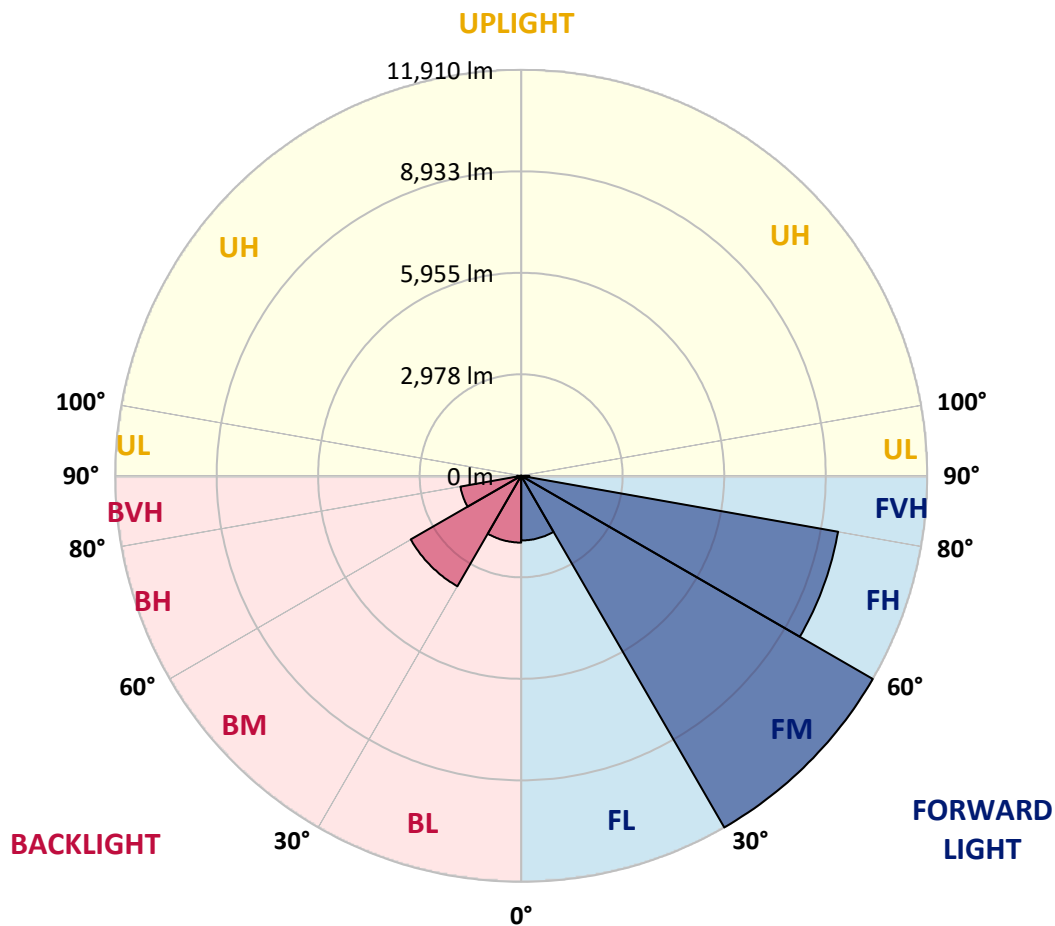
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1896.8	6.1			
FM	(30°-60°)	11910.4	38.3			
FH	(60°-80°)	9440.4	30.3			G4/12000
FVH	(80°-90°)	238.9	0.8			G3/500
BL	(0°-30°)	1959.8	6.3	B3/2500		
BM	(30°-60°)	3741.7	12.0	B3/5000		
BH	(60°-80°)	1810.6	5.8	B3/2500		G3/2500
BVH	(80°-90°)	116.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1
2.5°	3470.6	3462.6	3482.6	3502.7	3546.8	3599.0	3671.2	3731.4	3739.4	3851.7	3940.0
5°	3266.0	3253.9	3274.0	3298.1	3318.1	3382.3	3458.5	3546.8	3582.9	3747.4	3936.0
7.5°	3286.0	3282.0	3290.0	3282.0	3282.0	3310.1	3362.2	3450.5	3490.6	3687.2	3956.1
10°	3402.4	3410.4	3414.4	3390.3	3366.3	3354.2	3370.3	3430.5	3458.5	3691.3	4044.3
12.5°	3595.0	3607.0	3611.0	3566.9	3534.8	3482.6	3454.5	3478.6	3498.7	3731.4	4168.7
15°	3855.8	3863.8	3835.7	3807.6	3727.4	3663.2	3595.0	3574.9	3582.9	3815.6	4309.1
17.5°	4160.7	4148.6	4148.6	4080.4	3976.1	3875.8	3763.5	3747.4	3747.4	3952.0	4509.7
20°	4493.7	4505.7	4469.6	4377.3	4273.0	4116.5	4004.2	3932.0	3940.0	4108.5	4754.5
22.5°	4975.2	4995.2	4898.9	4766.5	4606.0	4425.5	4265.0	4148.6	4152.7	4313.1	5007.3
25°	5492.7	5500.8	5440.6	5264.0	5047.4	4790.6	4578.0	4429.5	4425.5	4541.8	5332.3
27.5°	6022.4	6058.5	5938.1	5769.6	5569.0	5248.0	4967.1	4766.5	4734.4	4890.9	5737.5
30°	6568.0	6612.2	6495.8	6331.3	6082.5	5809.7	5476.7	5244.0	5223.9	5432.6	6279.1
32.5°	7117.7	7129.7	7037.4	6901.0	6676.3	6419.6	6150.7	5894.0	5873.9	6214.9	6981.3
35°	7567.1	7603.2	7539.0	7506.9	7342.4	7105.7	6844.9	6696.4	6748.6	7185.9	7892.1
37.5°	8108.7	8144.8	8072.6	8064.6	8012.4	7807.8	7627.2	7639.3	7691.4	8285.3	8851.0
40°	8891.1	8931.2	8746.7	8666.4	8666.4	8465.8	8405.6	8690.5	8758.7	9368.6	9850.0
42.5°	9553.1	9617.3	9509.0	9456.8	9300.3	9159.9	9232.1	9633.4	9749.7	10403.7	10720.7
45°	9874.1	9922.2	10050.6	10203.1	10050.6	9805.9	10078.7	10532.1	10696.6	11358.6	11591.3
47.5°	10046.6	10090.8	10239.2	10648.5	10752.8	10548.1	10933.3	11499.0	11611.4	12305.5	12421.9
50°	10070.7	10211.1	10403.7	10813.0	11290.4	11318.5	11791.9	12482.0	12614.4	13236.3	13152.1
52.5°	9874.1	9930.3	10327.5	11017.6	11547.2	12028.7	12726.8	13424.9	13521.2	14111.0	13798.1
55°	9553.1	9633.4	10030.6	10969.4	11796.0	12702.7	13677.7	14351.7	14460.1	14961.6	14395.9
57.5°	9264.2	9304.4	9729.7	10829.0	12044.7	13376.8	14524.3	15318.7	15390.9	15707.9	14837.2
60°	8943.3	8987.4	9412.7	10528.1	12229.3	13886.3	15407.0	16293.7	16357.9	16494.3	15350.8
62.5°	8112.7	8229.1	8762.7	10030.6	12181.1	14468.1	16349.8	17256.6	17336.8	17188.4	15756.0
65°	6588.1	6752.6	7406.6	8903.1	11731.8	14845.2	17120.2	18143.3	18279.7	17710.0	15864.4
67.5°	5115.6	5231.9	5757.5	7065.5	10155.0	14656.7	17617.7	18753.2	18793.3	17625.7	15262.5
68°	4850.8	4967.1	5468.7	6680.4	9717.6	14432.0	17605.7	18769.2	18857.5	17533.4	15029.8
70°	3711.3	3843.7	4321.2	5292.1	7831.9	13003.6	16871.4	18384.0	18372.0	16418.0	13585.4
72.5°	2319.1	2395.3	2724.3	3338.2	5179.8	9894.2	14319.6	16213.4	16245.5	13384.8	10419.8
75°	1472.5	1472.5	1456.4	1616.9	2656.1	5637.2	10644.4	12482.0	12506.1	9372.6	6568.0
77.5°	1279.9	1243.8	1071.3	906.8	1059.2	2190.7	6299.2	8060.6	7928.2	5047.4	3117.5
80°	1079.3	1019.1	878.7	730.2	682.1	686.1	2419.4	4092.5	3915.9	1817.5	1035.2
82.5°	778.4	726.2	662.0	573.7	525.6	409.2	505.5	1183.6	1155.5	525.6	337.0
85°	421.3	381.2	373.1	377.1	317.0	252.8	212.6	260.8	260.8	228.7	192.6
87.5°	148.5	108.3	128.4	144.4	124.4	104.3	84.3	100.3	104.3	100.3	92.3
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°	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1
2.5°	3992.2	4032.3	4128.6	4212.8	4273.0	4325.2	4353.3	4365.3	4393.4	4397.4	4389.4
5°	4024.3	4128.6	4273.0	4397.4	4465.6	4493.7	4501.7	4505.7	4493.7	4501.7	4493.7
7.5°	4108.5	4240.9	4445.5	4553.9	4565.9	4521.8	4525.8	4509.7	4525.8	4541.8	4541.8
10°	4236.9	4405.4	4598.0	4638.1	4586.0	4561.9	4610.1	4706.3	4738.4	4782.6	4782.6
12.5°	4405.4	4606.0	4742.5	4706.3	4658.2	4738.4	4878.9	4975.2	5007.3	5023.3	5011.3
15°	4598.0	4814.7	4882.9	4762.5	4850.8	5023.3	5071.5	5015.3	4935.0	4898.9	4919.0
17.5°	4842.8	5023.3	4983.2	4902.9	5103.6	5127.6	4971.2	4790.6	4662.2	4614.1	4646.2
20°	5099.5	5256.0	5071.5	5107.6	5231.9	4975.2	4678.3	4445.5	4333.2	4313.1	4345.2
22.5°	5372.4	5472.7	5159.7	5344.3	5159.7	4638.1	4281.0	4160.7	4132.6	4164.7	4192.8
25°	5681.3	5669.3	5312.2	5416.5	4890.9	4224.9	4012.2	4004.2	4004.2	4024.3	4064.4
27.5°	6030.4	5841.8	5464.7	5320.2	4425.5	3883.8	3843.7	3847.7	3835.7	3839.7	3859.8
30°	6435.6	6074.5	5633.2	5003.2	3903.9	3627.1	3611.0	3599.0	3570.9	3562.9	3570.9
32.5°	6945.2	6319.3	5805.7	4481.7	3446.5	3362.2	3354.2	3290.0	3221.8	3213.8	3241.9
35°	7591.1	6764.6	5894.0	3827.7	3069.4	3065.3	3037.3	2937.0	2848.7	2848.7	2828.6
37.5°	8329.4	7338.4	5930.1	3189.7	2756.4	2776.5	2696.2	2567.8	2499.6	2459.5	2471.5
40°	9083.7	7992.4	5926.1	2632.0	2483.6	2487.6	2427.4	2270.9	2102.4	2002.1	2026.2
42.5°	9809.9	8586.2	5821.7	2335.1	2262.9	2250.9	2202.7	1990.1	1849.6	1769.4	1773.4
45°	10391.7	9200.0	5661.3	2158.6	2062.3	2082.3	1974.0	1845.6	1717.2	1645.0	1641.0
47.5°	10973.4	9665.5	5404.5	2050.2	1913.8	1877.7	1833.6	1745.3	1649.0	1568.8	1572.8
50°	11503.1	10062.7	5163.7	1978.0	1777.4	1685.1	1693.2	1641.0	1556.7	1484.5	1480.5
52.5°	11876.2	10323.5	5031.3	1937.9	1612.9	1512.6	1540.7	1512.6	1432.4	1380.2	1376.2
55°	12249.3	10524.1	5075.5	1885.7	1432.4	1352.1	1400.3	1392.2	1348.1	1332.1	1336.1
57.5°	12550.3	10676.5	5231.9	1789.5	1259.8	1211.7	1291.9	1267.9	1235.8	1239.8	1239.8
60°	12843.1	10873.1	5416.5	1568.8	1111.4	1115.4	1191.6	1147.5	1127.4	1163.5	1167.6
62.5°	13148.1	11085.8	5264.0	1247.8	983.0	1011.1	1099.4	1063.2	1071.3	1123.4	1139.5
65°	13112.0	11065.7	4289.1	1023.1	870.7	926.8	1059.2	1047.2	1051.2	1071.3	1079.3
67.5°	12373.7	10359.6	2949.0	870.7	790.4	858.6	1027.1	979.0	983.0	971.0	975.0
68°	12125.0	10110.8	2599.9	846.6	774.4	842.6	1011.1	966.9	971.0	958.9	954.9
70°	10768.8	8658.4	1645.0	746.3	718.2	798.4	930.8	914.8	910.8	902.8	902.8
72.5°	8209.0	6391.5	866.6	646.0	654.0	730.2	830.5	862.6	842.6	846.6	870.7
75°	5436.6	3843.7	601.8	553.7	573.7	625.9	738.3	802.4	782.4	794.4	782.4
77.5°	2876.8	2070.3	481.5	469.4	469.4	505.5	609.9	710.2	710.2	702.1	690.1
80°	942.9	730.2	385.2	369.1	377.1	397.2	489.5	581.8	593.8	577.8	569.7
82.5°	317.0	337.0	288.9	268.8	276.8	292.9	369.1	445.4	449.4	417.3	409.2
85°	196.6	224.7	180.6	176.5	176.5	180.6	224.7	244.7	224.7	200.6	208.6
87.5°	92.3	112.3	84.3	72.2	60.2	52.2	40.1	16.0	16.0	8.0	8.0
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)