

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: P1211197

Luminaire Tested: **ARCH4-200-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30294 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 203.7
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



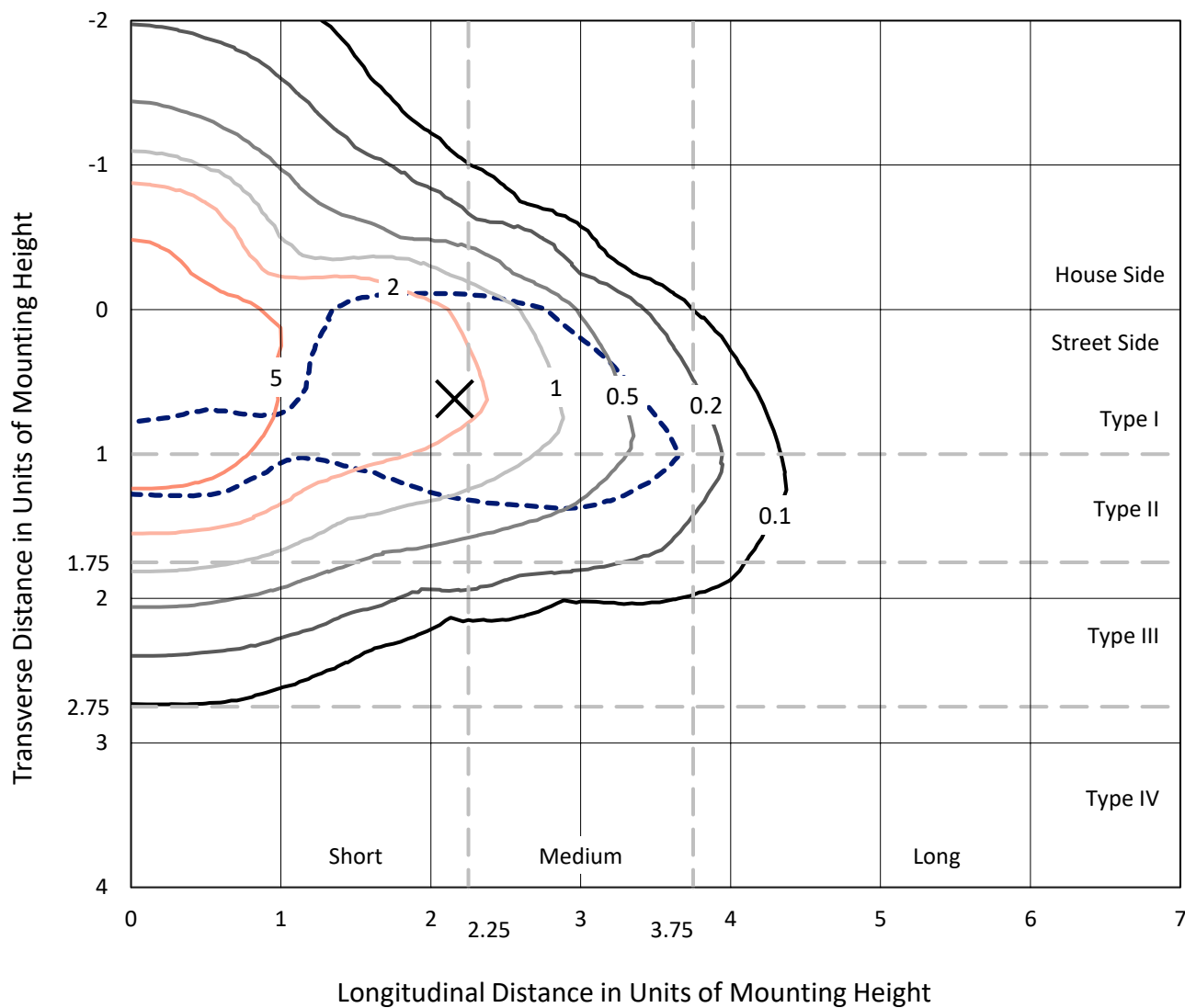
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

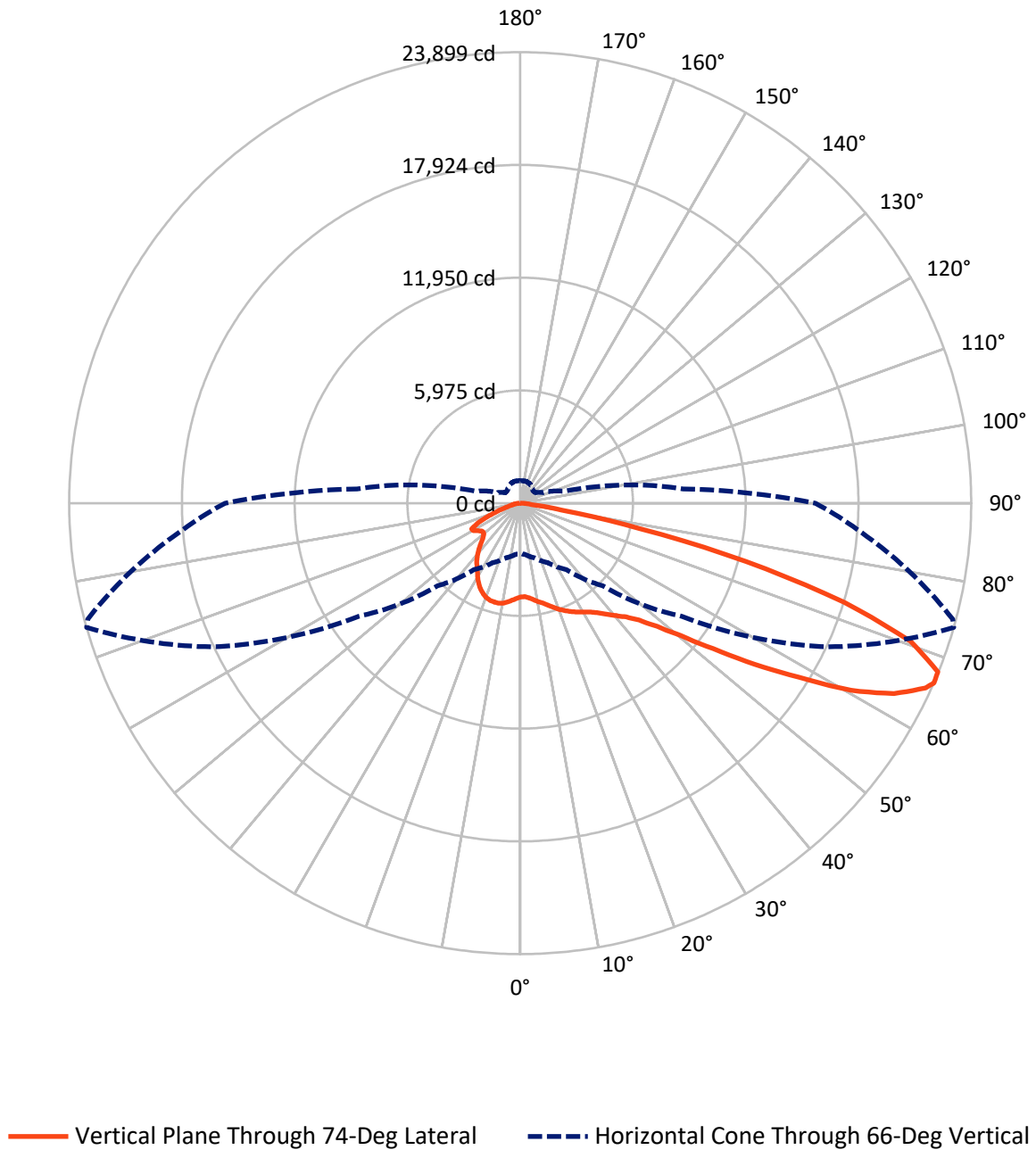
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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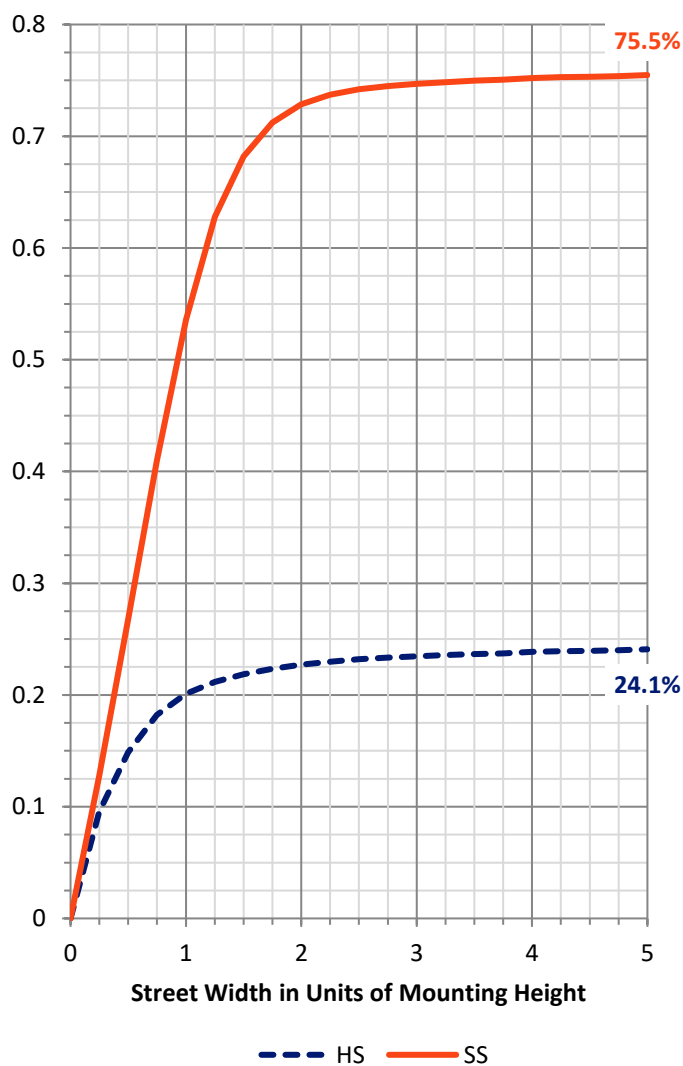
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7377.4	0.0	7377.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	22916.6	0.0	22916.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	30294.0	0.0	30294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.7	1.6
10°-20°	1456.8	4.8
20°-30°	2733.7	9.0
30°-40°	4205.1	13.9
40°-50°	5656.3	18.7
50°-60°	6689.2	22.1
60°-70°	6187.9	20.4
70°-80°	2603.2	8.6
80°-90°	288.1	1.0
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°	30294.0	100.0
0°-180°	30294.0	100.0

Coefficient of Utilization



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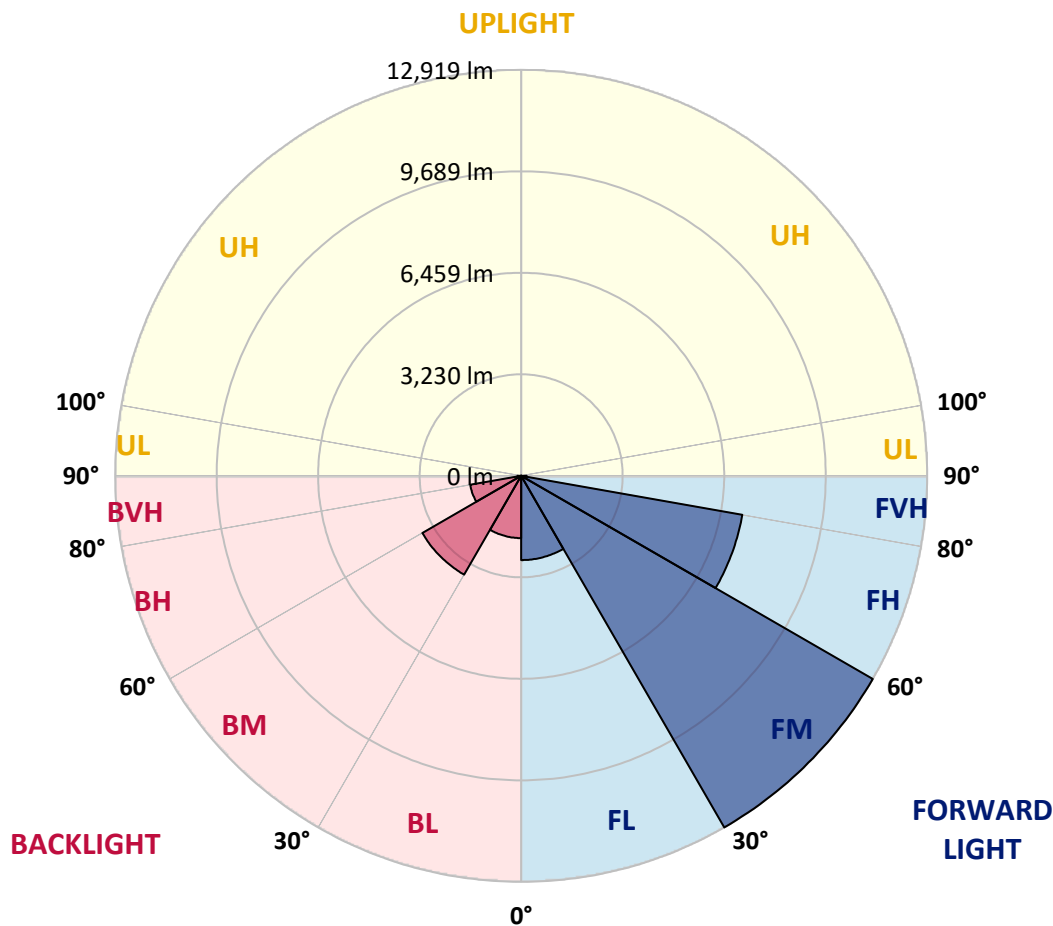
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2681.4	8.9			
FM	(30°-60°)	12918.7	42.6			
FH	(60°-80°)	7144.2	23.6			G3/7500
FVH	(80°-90°)	172.3	0.6			G2/225
BL	(0°-30°)	1982.9	6.5	B3/2500		
BM	(30°-60°)	3631.9	12.0	B3/5000		
BH	(60°-80°)	1646.9	5.4	B3/2500		G3/2500
BVH	(80°-90°)	115.7	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4966.2	4966.2	4966.2	4966.2	4966.2	4966.2	4966.2	4966.2	4966.2	4966.2	4966.2
2.5°	4950.6	4942.8	4958.4	4981.8	4993.5	4974.0	4966.2	4962.3	4962.3	4950.6	4970.1
5°	4716.7	4712.8	4747.9	4790.8	4872.6	4931.1	5009.1	5055.9	5040.3	5016.9	5032.5
7.5°	4412.7	4404.9	4447.7	4529.6	4642.7	4771.3	4962.3	5110.4	5168.9	5161.1	5157.2
10°	4529.6	4521.8	4517.9	4494.5	4533.5	4658.2	4857.0	5118.2	5317.0	5320.9	5324.8
12.5°	4935.0	4954.5	4935.0	4860.9	4775.2	4728.4	4845.4	5137.7	5441.8	5465.2	5562.6
15°	5488.5	5469.1	5430.1	5344.3	5211.8	5071.4	4985.7	5227.4	5621.1	5640.6	5855.0
17.5°	5975.8	5991.4	5968.0	5886.1	5730.2	5547.0	5285.8	5383.3	5812.1	5866.7	6166.8
20°	6505.9	6568.3	6537.1	6435.8	6307.1	6034.3	5706.8	5609.4	6022.6	6061.6	6490.4
22.5°	7118.0	7184.2	7125.7	7028.3	6923.0	6587.8	6166.8	5886.1	6198.0	6279.9	6802.2
25°	7850.8	7913.2	7858.6	7706.6	7574.0	7164.7	6661.9	6198.0	6369.5	6459.2	7055.6
27.5°	8431.6	8478.4	8529.1	8439.4	8236.7	7811.8	7176.4	6521.5	6541.0	6634.6	7289.5
30°	8950.1	9067.0	9109.9	9121.6	8950.1	8474.5	7702.7	6856.8	6689.2	6786.6	7523.4
32.5°	9659.5	9834.9	9764.8	9834.9	9733.6	9098.2	8248.4	7203.7	6880.2	6969.8	7745.5
35°	10696.4	10836.7	10653.5	10599.0	10435.2	9729.7	8774.6	7562.3	7133.5	7231.0	7956.0
37.5°	11811.3	11971.1	11706.0	11487.7	11175.9	10353.4	9226.8	8034.0	7484.4	7562.3	8151.0
40°	12785.8	12918.3	12688.4	12399.9	11877.5	10903.0	9616.6	8365.3	7835.2	7932.7	8377.0
42.5°	13686.3	13772.0	13514.8	13238.0	12540.2	11398.1	10037.6	8716.2	8244.5	8338.1	8560.3
45°	14598.4	14664.7	14306.1	13912.4	13093.8	11850.3	10501.5	9207.3	8844.8	8969.6	8856.5
47.5°	14762.1	14781.6	14719.3	14454.2	13530.3	12282.9	11074.5	9866.1	9760.9	9897.3	9367.2
50°	13627.8	13803.2	14189.1	14450.3	13705.8	12645.5	11647.6	10809.5	11023.9	11199.3	10427.4
52.5°	11425.4	11593.0	12485.7	13475.8	13284.8	12727.3	12263.5	12006.2	12805.3	13015.8	11869.7
55°	9102.1	9250.2	10193.6	11620.3	11924.3	12353.1	12922.2	13534.2	15077.9	15218.2	13452.4
57.5°	7496.1	7577.9	8252.3	9624.4	10111.7	11156.4	13277.0	15350.8	17389.5	17603.9	14828.4
60°	6147.3	6237.0	6739.8	7870.3	8517.4	9445.1	12996.3	17143.9	20149.3	20149.3	16594.3
62.5°	4627.1	4705.0	5172.8	6057.7	7145.2	7995.0	12099.7	18332.8	22230.9	22137.4	17872.8
65°	3177.0	3239.3	3578.5	4167.1	5145.5	6813.9	10875.7	18348.4	23610.9	23486.1	18418.6
66°	2666.3	2720.9	3009.3	3484.9	4307.4	6182.4	10443.0	18017.1	23899.3	23723.9	18188.6
67.5°	2105.0	2144.0	2335.0	2615.6	3157.5	5005.2	9760.9	17077.6	23872.0	23766.8	17603.9
70°	1504.7	1532.0	1672.3	1730.8	1867.2	2896.3	7753.3	14957.1	21958.1	21989.2	15304.0
72.5°	1165.5	1208.4	1294.2	1305.9	1274.7	1539.8	4705.0	12477.9	17962.5	17950.8	11359.1
75°	939.4	962.8	1005.7	1029.1	1021.3	994.0	1991.9	9308.7	12364.8	12509.0	6361.7
77.5°	740.6	736.7	775.7	806.9	830.3	779.6	912.2	5457.4	6482.6	6299.3	2389.5
80°	545.7	545.7	600.3	612.0	647.1	654.9	608.1	2105.0	2225.8	2023.1	619.8
82.5°	358.6	358.6	417.1	424.9	460.0	510.7	440.5	631.5	615.9	584.7	280.7
85°	194.9	187.1	206.6	233.9	253.4	300.2	265.1	315.7	323.5	319.6	187.1
87.5°	39.0	35.1	54.6	62.4	70.2	93.6	85.8	128.6	179.3	175.4	81.9
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°	4966.2	4966.2	4966.2	4966.2	4966.2	4966.2	4966.2	4966.2	4966.2	4966.2	4966.2
2.5°	4997.4	4993.5	5036.4	5087.0	5145.5	5180.6	5196.2	5223.5	5204.0	5211.8	5235.2
5°	5071.4	5083.1	5145.5	5211.8	5239.1	5219.6	5176.7	5161.1	5126.0	5118.2	5110.4
7.5°	5180.6	5200.1	5262.5	5278.0	5196.2	5059.7	4962.3	4907.7	4849.3	4833.7	4825.9
10°	5359.9	5371.6	5387.2	5227.4	5024.7	4841.5	4720.6	4669.9	4631.0	4599.8	4607.6
12.5°	5586.0	5578.2	5457.4	5126.0	4837.6	4650.4	4568.6	4537.4	4510.1	4490.6	4486.7
15°	5870.6	5816.0	5469.1	4985.7	4662.1	4506.2	4447.7	4436.1	4404.9	4404.9	4401.0
17.5°	6159.0	6018.7	5461.3	4837.6	4494.5	4408.8	4373.7	4365.9	4358.1	4354.2	4365.9
20°	6447.5	6198.0	5398.9	4654.3	4377.6	4326.9	4319.1	4323.0	4315.2	4326.9	4319.1
22.5°	6700.9	6314.9	5281.9	4459.4	4295.7	4291.8	4272.3	4280.1	4307.4	4311.3	4323.0
25°	6895.8	6357.8	5110.4	4280.1	4237.2	4229.5	4252.8	4284.0	4307.4	4311.3	4330.8
27.5°	7055.6	6334.4	4896.0	4139.8	4135.9	4178.8	4248.9	4260.6	4264.5	4264.5	4248.9
30°	7176.4	6283.8	4623.2	3983.9	4003.4	4108.6	4174.9	4174.9	4143.7	4135.9	4159.3
32.5°	7203.7	6217.5	4326.9	3824.0	3855.2	3980.0	4061.8	4034.5	3999.5	3999.5	4015.1
35°	7227.1	6127.8	4089.1	3605.8	3652.5	3800.7	3878.6	3824.0	3785.1	3773.4	3769.5
37.5°	7219.3	6092.7	3874.7	3329.0	3391.4	3535.6	3586.3	3535.6	3477.1	3449.8	3484.9
40°	7227.1	6069.4	3605.8	3024.9	3087.3	3173.1	3239.3	3200.3	3145.8	3075.6	3110.7
42.5°	7273.9	6100.5	3309.5	2728.7	2728.7	2775.5	2888.5	2861.2	2728.7	2701.4	2732.6
45°	7523.4	6268.2	3013.2	2432.4	2389.5	2420.7	2537.7	2420.7	2338.9	2338.9	2366.2
47.5°	8127.6	6580.0	2752.1	2171.2	2069.9	2132.3	2163.5	2054.3	1991.9	1976.3	2003.6
50°	9359.4	7203.7	2596.1	1956.9	1832.1	1878.9	1859.4	1855.5	1793.1	1800.9	1816.5
52.5°	11230.5	8419.9	2549.4	1851.6	1695.7	1707.4	1687.9	1695.7	1684.0	1723.0	1734.7
55°	13269.2	9702.4	2607.8	1867.2	1602.1	1520.3	1528.1	1567.0	1613.8	1676.2	1687.9
57.5°	14793.3	10345.6	2759.9	1972.4	1485.2	1360.4	1379.9	1454.0	1543.7	1594.3	1621.6
60°	15927.7	10267.6	2982.1	1999.7	1344.8	1216.2	1251.3	1360.4	1438.4	1481.3	1508.6
62.5°	16298.0	9780.4	3036.6	1800.9	1161.6	1079.8	1165.5	1278.6	1313.7	1360.4	1379.9
65°	15994.0	9090.4	2639.0	1461.8	1021.3	978.4	1103.2	1188.9	1235.7	1259.1	1263.0
66°	15635.3	8677.2	2424.6	1329.3	970.6	947.2	1079.8	1149.9	1196.7	1192.8	1196.7
67.5°	14847.9	7811.8	2077.7	1142.1	896.6	900.5	1040.8	1087.6	1103.2	1091.5	1091.5
70°	12169.9	5500.2	1489.1	865.4	787.4	842.0	935.5	947.2	982.3	966.7	966.7
72.5°	7503.9	2701.4	997.9	662.7	701.7	787.4	783.5	822.5	904.4	927.8	943.3
75°	3687.6	1095.4	658.8	561.3	627.6	658.8	651.0	748.4	865.4	966.7	1001.8
77.5°	1399.4	545.7	460.0	491.2	506.8	495.1	518.4	678.3	865.4	1048.6	1083.7
80°	432.7	378.1	362.5	405.4	382.0	362.5	389.8	561.3	732.8	795.2	795.2
82.5°	261.2	296.3	280.7	276.8	257.3	261.2	280.7	401.5	565.2	592.5	592.5
85°	183.2	194.9	159.8	152.0	148.1	144.2	144.2	233.9	335.2	331.3	343.0
87.5°	70.2	78.0	58.5	58.5	54.6	39.0	31.2	39.0	39.0	27.3	19.5
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)