

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: P1211371

Luminaire Tested: **ARCH4-250-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211371
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: ARCH4-250-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37339 lumens
Efficiency: N/A
Efficacy: 149.7 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



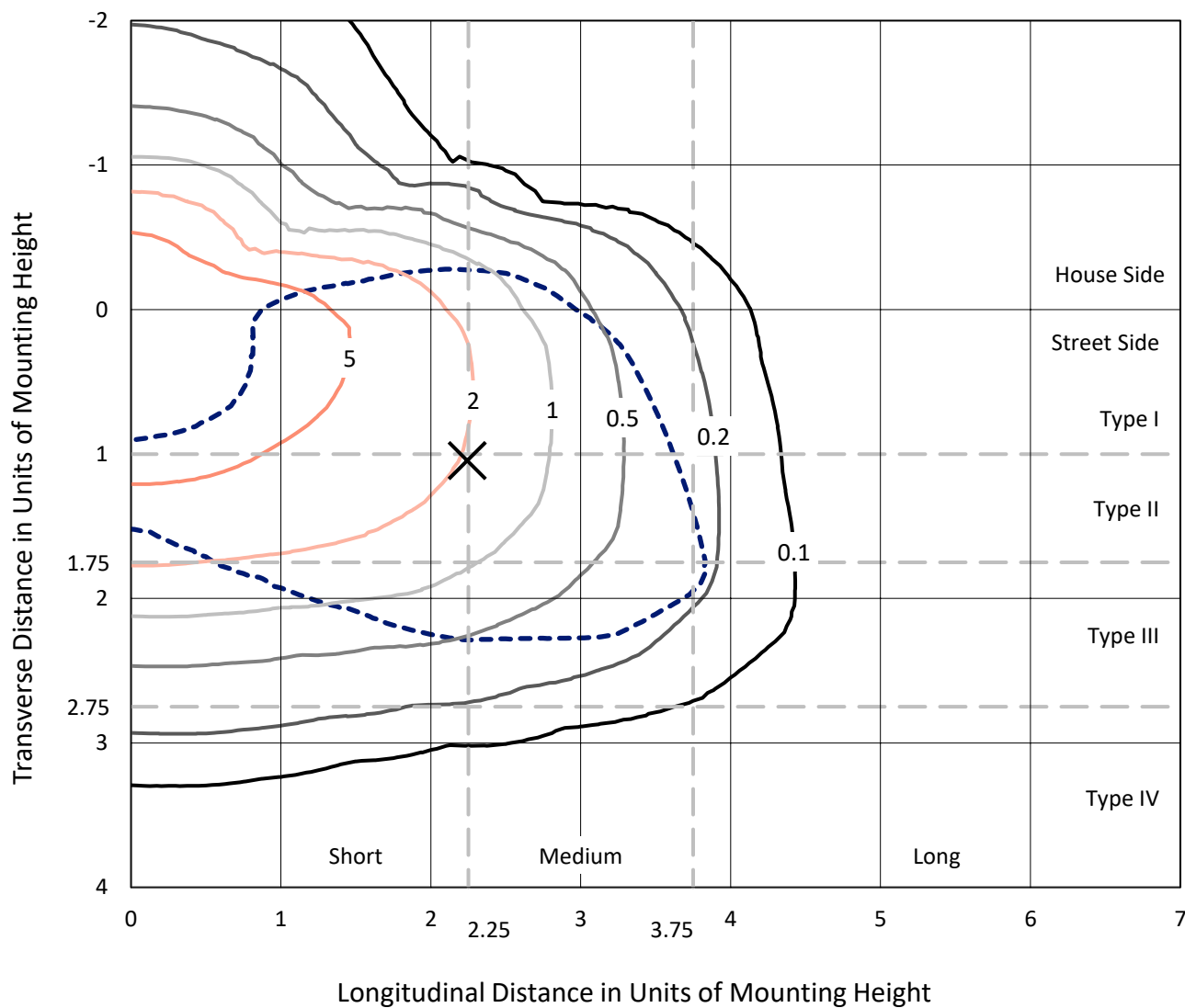
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

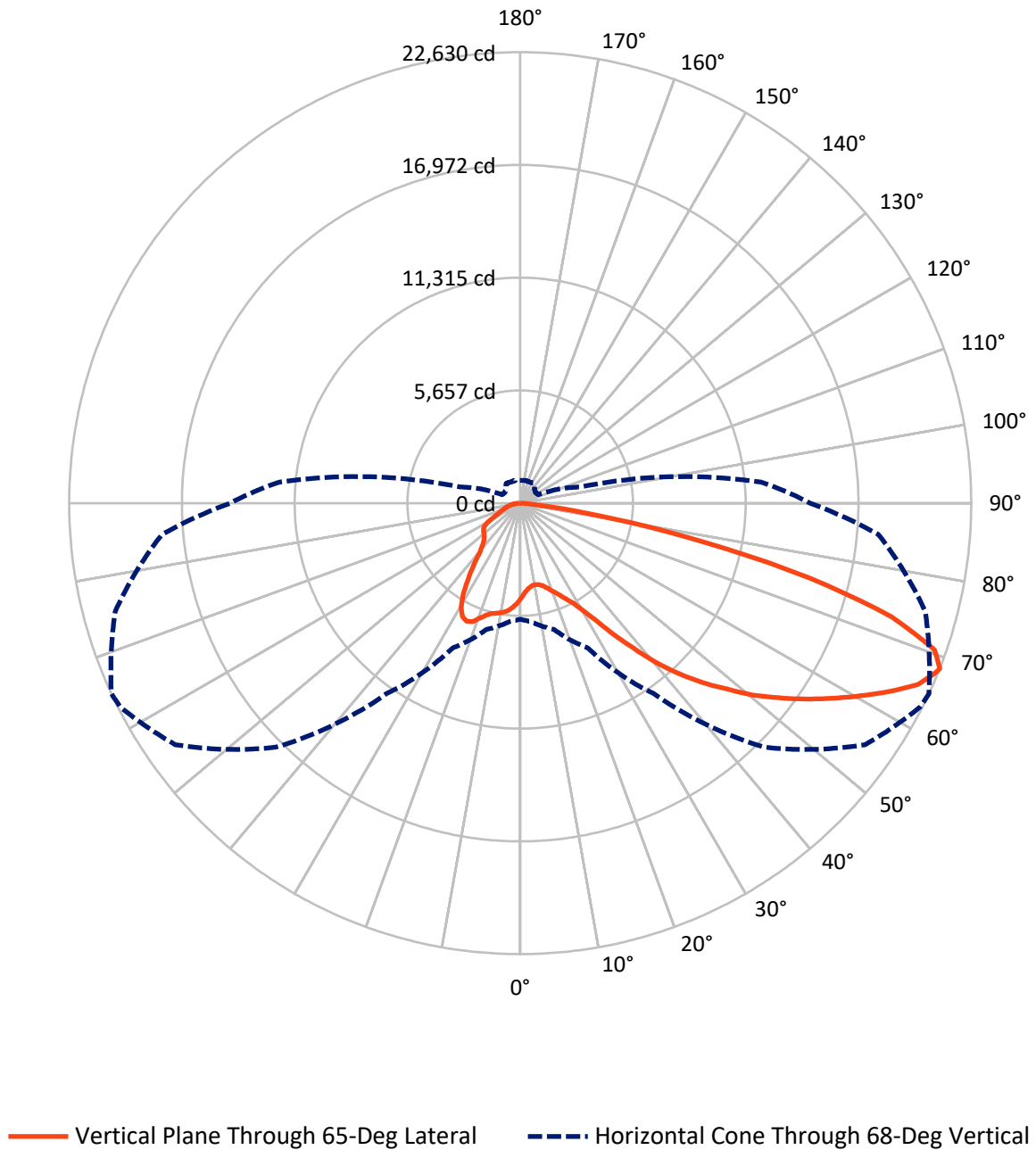
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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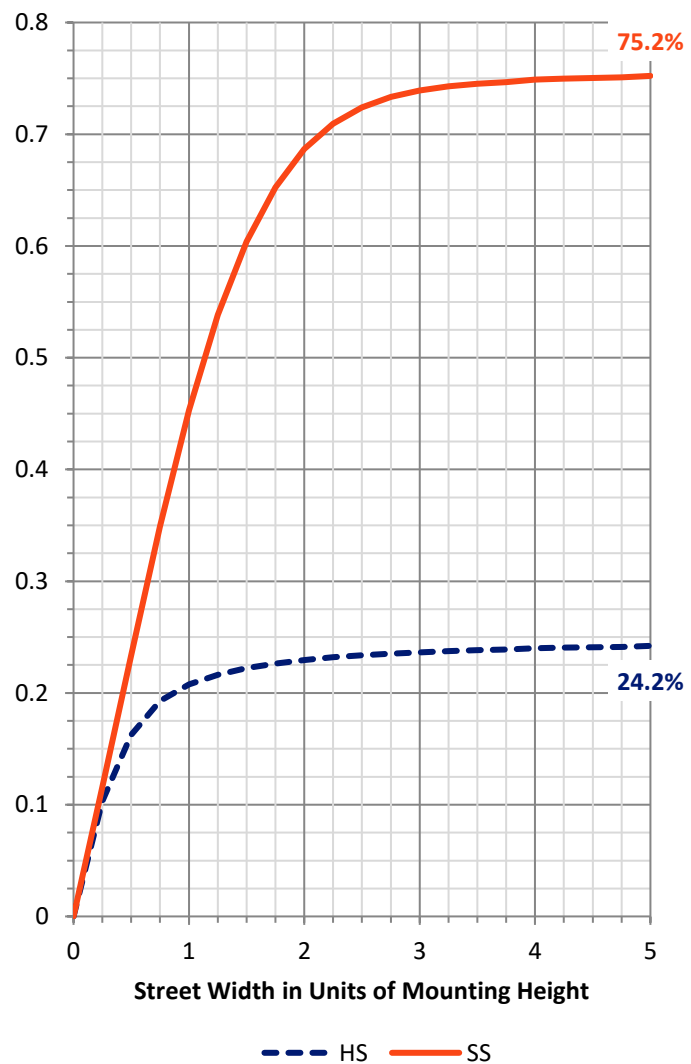
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9154.4	0.0	9154.4
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	28184.6	0.0	28184.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	37339.0	0.0	37339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.0	1.2
10°-20°	1484.8	4.0
20°-30°	2687.3	7.2
30°-40°	4227.4	11.3
40°-50°	6296.2	16.9
50°-60°	8259.4	22.1
60°-70°	9032.2	24.2
70°-80°	4469.4	12.0
80°-90°	426.3	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°	37339.0	100.0
0°-180°	37339.0	100.0

Coefficient of Utilization



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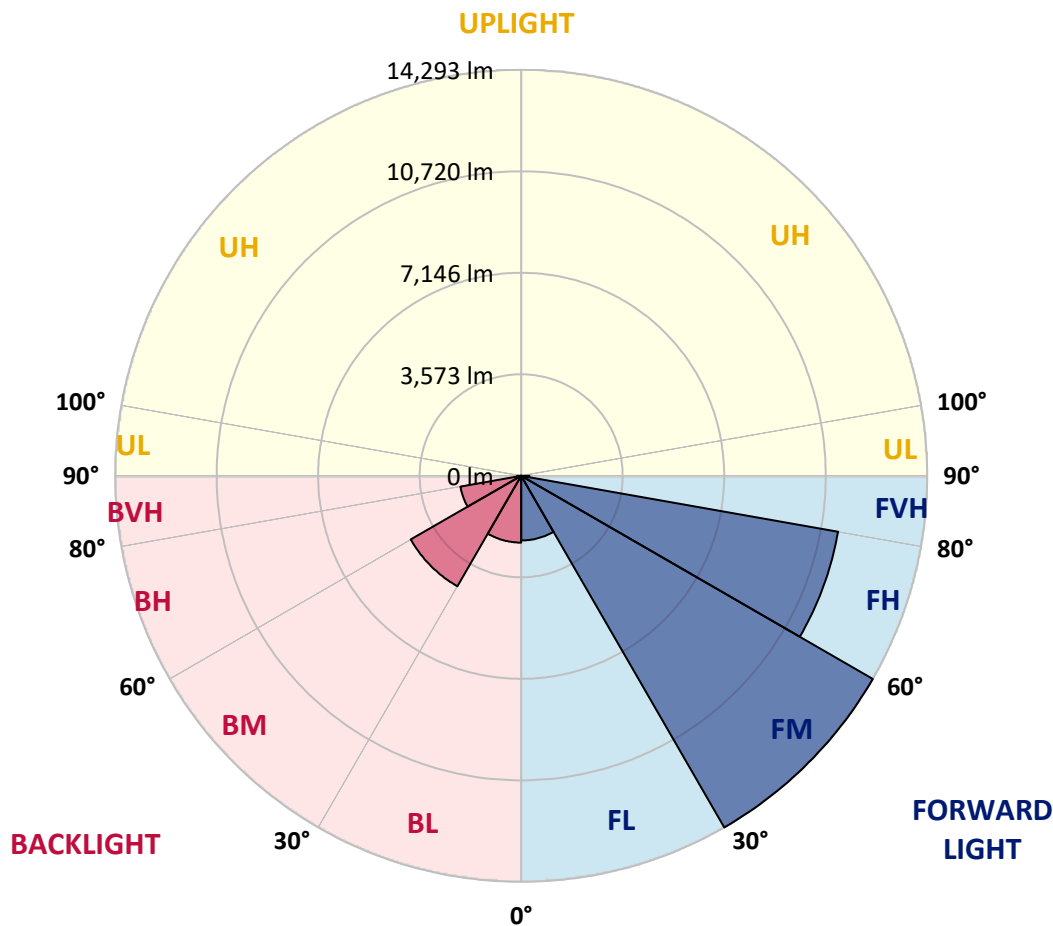
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2276.2	6.1			
FM	(30°-60°)	14292.9	38.3			
FH	(60°-80°)	11328.8	30.3			G4/12000
FVH	(80°-90°)	286.7	0.8			G3/500
BL	(0°-30°)	2351.8	6.3	B3/2500		
BM	(30°-60°)	4490.2	12.0	B3/5000		
BH	(60°-80°)	2172.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	139.6	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°	4771.5	4771.5	4771.5	4771.5	4771.5	4771.5	4771.5	4771.5	4771.5	4771.5	4771.5
2.5°	4164.8	4155.2	4179.2	4203.3	4256.3	4318.9	4405.5	4477.8	4487.4	4622.2	4728.1
5°	3919.2	3904.8	3928.9	3957.8	3981.8	4058.9	4150.4	4256.3	4299.6	4497.0	4723.3
7.5°	3943.3	3938.5	3948.1	3938.5	3938.5	3972.2	4034.8	4140.7	4188.9	4424.8	4747.4
10°	4083.0	4092.6	4097.4	4068.5	4039.6	4025.2	4044.4	4116.7	4150.4	4429.6	4853.3
12.5°	4314.1	4328.5	4333.3	4280.4	4241.8	4179.2	4145.5	4174.4	4198.5	4477.8	5002.6
15°	4627.0	4636.7	4603.0	4569.2	4473.0	4395.9	4314.1	4290.0	4299.6	4578.9	5171.1
17.5°	4993.0	4978.5	4978.5	4896.7	4771.5	4651.1	4516.3	4497.0	4497.0	4742.6	5411.8
20°	5392.6	5407.0	5363.7	5253.0	5127.8	4940.0	4805.2	4718.5	4728.1	4930.4	5705.5
22.5°	5970.4	5994.4	5878.9	5720.0	5527.4	5310.7	5118.1	4978.5	4983.3	5175.9	6008.9
25°	6591.5	6601.1	6528.9	6317.0	6057.0	5748.9	5493.7	5315.5	5310.7	5450.4	6398.9
27.5°	7227.0	7270.4	7125.9	6923.7	6682.9	6297.8	5960.7	5720.0	5681.5	5869.2	6885.2
30°	7881.8	7934.8	7795.2	7597.8	7299.2	6971.8	6572.2	6292.9	6268.9	6519.2	7535.2
32.5°	8541.5	8555.9	8445.2	8281.5	8011.8	7703.7	7381.1	7072.9	7048.9	7458.1	8377.8
35°	9080.7	9124.1	9047.0	9008.5	8811.1	8527.0	8214.1	8035.9	8098.5	8623.3	9470.7
37.5°	9730.7	9774.1	9687.4	9677.8	9615.2	9369.6	9152.9	9167.4	9230.0	9942.6	10621.5
40°	10669.6	10717.8	10496.3	10400.0	10400.0	10159.2	10087.0	10428.9	10510.7	11242.6	11820.3
42.5°	11464.0	11541.1	11411.1	11348.5	11160.7	10992.2	11078.9	11560.3	11700.0	12484.8	12865.2
45°	11849.2	11907.0	12061.1	12244.0	12061.1	11767.4	12094.8	12638.9	12836.3	13630.7	13910.0
47.5°	12056.3	12109.2	12287.4	12778.5	12903.7	12658.1	13120.3	13799.2	13934.0	14767.0	14906.6
50°	12085.2	12253.7	12484.8	12975.9	13548.9	13582.6	14150.7	14978.9	15137.7	15884.0	15782.9
52.5°	11849.2	11916.6	12393.3	13221.5	13857.0	14434.8	15272.6	16110.3	16225.9	16933.7	16558.1
55°	11464.0	11560.3	12037.0	13163.7	14155.5	15243.7	16413.7	17222.6	17352.6	17954.4	17275.5
57.5°	11117.4	11165.5	11675.9	12995.2	14454.0	16052.6	17429.6	18382.9	18469.6	18850.0	17805.1
60°	10732.2	10785.2	11295.5	12634.0	14675.5	16664.0	18488.8	19552.9	19630.0	19793.7	18421.4
62.5°	9735.5	9875.2	10515.5	12037.0	14617.7	17362.2	19620.3	20708.5	20804.8	20626.6	18907.7
65°	7905.9	8103.3	8888.1	10684.0	14078.5	17814.8	20544.8	21772.5	21936.2	21252.5	19037.7
67.5°	6138.9	6278.5	6909.2	8478.9	12186.3	17588.5	21141.8	22504.4	22552.5	21151.4	18315.5
68°	5821.1	5960.7	6562.6	8016.6	11661.5	17318.8	21127.4	22523.7	22629.6	21040.7	18036.3
70°	4453.7	4612.6	5185.5	6350.7	9398.5	15604.8	20246.2	22061.4	22047.0	19702.2	16302.9
72.5°	2783.0	2874.4	3269.3	4005.9	6215.9	11873.3	17184.0	19456.6	19495.1	16062.2	12504.0
75°	1767.0	1767.0	1747.8	1940.4	3187.4	6764.8	12773.7	14978.9	15007.7	11247.4	7881.8
77.5°	1535.9	1492.6	1285.6	1088.1	1271.1	2628.9	7559.2	9672.9	9514.1	6057.0	3741.1
80°	1295.2	1223.0	1054.4	876.3	818.5	823.3	2903.3	4911.1	4699.2	2181.1	1242.2
82.5°	934.1	871.5	794.4	688.5	630.7	491.1	606.7	1420.4	1386.7	630.7	404.4
85°	505.6	457.4	447.8	452.6	380.4	303.3	255.2	313.0	313.0	274.4	231.1
87.5°	178.1	130.0	154.1	173.3	149.3	125.2	101.1	120.4	125.2	120.4	110.7
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°	4771.5	4771.5	4771.5	4771.5	4771.5	4771.5	4771.5	4771.5	4771.5	4771.5	4771.5
2.5°	4790.7	4838.9	4954.4	5055.5	5127.8	5190.4	5224.1	5238.5	5272.2	5277.0	5267.4
5°	4829.2	4954.4	5127.8	5277.0	5358.9	5392.6	5402.2	5407.0	5392.6	5402.2	5392.6
7.5°	4930.4	5089.2	5334.8	5464.8	5479.2	5426.3	5431.1	5411.8	5431.1	5450.4	5450.4
10°	5084.4	5286.7	5517.8	5565.9	5503.3	5474.4	5532.2	5647.8	5686.3	5739.2	5739.2
12.5°	5286.7	5527.4	5691.1	5647.8	5590.0	5686.3	5854.8	5970.4	6008.9	6028.1	6013.7
15°	5517.8	5777.8	5859.6	5715.2	5821.1	6028.1	6085.9	6018.5	5922.2	5878.9	5902.9
17.5°	5811.5	6028.1	5980.0	5883.7	6124.4	6153.3	5965.5	5748.9	5594.8	5537.0	5575.5
20°	6119.6	6307.4	6085.9	6129.2	6278.5	5970.4	5614.1	5334.8	5200.0	5175.9	5214.4
22.5°	6447.0	6567.4	6191.8	6413.3	6191.8	5565.9	5137.4	4993.0	4959.2	4997.8	5031.5
25°	6817.8	6803.3	6374.8	6500.0	5869.2	5070.0	4814.8	4805.2	4805.2	4829.2	4877.4
27.5°	7236.6	7010.4	6557.8	6384.4	5310.7	4660.7	4612.6	4617.4	4603.0	4607.8	4631.8
30°	7722.9	7289.6	6760.0	6004.1	4684.8	4352.6	4333.3	4318.9	4285.2	4275.5	4285.2
32.5°	8334.4	7583.3	6967.0	5378.1	4135.9	4034.8	4025.2	3948.1	3866.3	3856.7	3890.4
35°	9109.6	8117.8	7072.9	4593.3	3683.3	3678.5	3644.8	3524.4	3418.5	3418.5	3394.4
37.5°	9995.5	8806.3	7116.3	3827.8	3307.8	3331.8	3235.5	3081.5	2999.6	2951.5	2965.9
40°	10900.7	9591.1	7111.5	3158.5	2980.4	2985.2	2913.0	2725.2	2523.0	2402.6	2431.5
42.5°	11772.2	10303.7	6986.3	2802.2	2715.5	2701.1	2643.3	2388.1	2219.6	2123.3	2128.1
45°	12470.3	11040.3	6793.7	2590.4	2474.8	2498.9	2368.9	2214.8	2060.7	1974.1	1969.3
47.5°	13168.5	11598.9	6485.5	2460.4	2296.7	2253.3	2200.4	2094.4	1978.9	1882.6	1887.4
50°	13804.0	12075.5	6196.7	2373.7	2133.0	2022.2	2031.8	1969.3	1868.1	1781.5	1776.7
52.5°	14251.8	12388.5	6037.8	2325.6	1935.6	1815.2	1848.9	1815.2	1718.9	1656.3	1651.5
55°	14699.6	12629.2	6090.7	2263.0	1718.9	1622.6	1680.4	1670.7	1617.8	1598.5	1603.3
57.5°	15060.7	12812.2	6278.5	2147.4	1511.8	1454.1	1550.4	1521.5	1483.0	1487.8	1487.8
60°	15412.2	13048.1	6500.0	1882.6	1333.7	1338.5	1430.0	1377.0	1353.0	1396.3	1401.1
62.5°	15778.1	13303.3	6317.0	1497.4	1179.6	1213.3	1319.3	1275.9	1285.6	1348.1	1367.4
65°	15734.8	13279.2	5147.0	1227.8	1044.8	1112.2	1271.1	1256.7	1261.5	1285.6	1295.2
67.5°	14848.9	12431.8	3538.9	1044.8	948.5	1030.4	1232.6	1174.8	1179.6	1165.2	1170.0
68°	14550.3	12133.3	3120.0	1015.9	929.3	1011.1	1213.3	1160.4	1165.2	1150.7	1145.9
70°	12922.9	10390.3	1974.1	895.6	861.8	958.1	1117.0	1097.8	1093.0	1083.3	1083.3
72.5°	9851.1	7670.0	1040.0	775.2	784.8	876.3	996.7	1035.2	1011.1	1015.9	1044.8
75°	6524.1	4612.6	722.2	664.4	688.5	751.1	885.9	963.0	938.9	953.3	938.9
77.5°	3452.2	2484.4	577.8	563.3	563.3	606.7	731.9	852.2	852.2	842.6	828.1
80°	1131.5	876.3	462.2	443.0	452.6	476.7	587.4	698.1	712.6	693.3	683.7
82.5°	380.4	404.4	346.7	322.6	332.2	351.5	443.0	534.4	539.3	500.7	491.1
85°	235.9	269.6	216.7	211.9	211.9	216.7	269.6	293.7	269.6	240.7	250.4
87.5°	110.7	134.8	101.1	86.7	72.2	62.6	48.1	19.3	19.3	9.6	9.6
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)