

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: P1211515

Luminaire Tested: **ARCH4-300-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211515
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: ARCH4-300-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39056 lumens
Efficiency: N/A
Efficacy: 130.5 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): 299.2
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



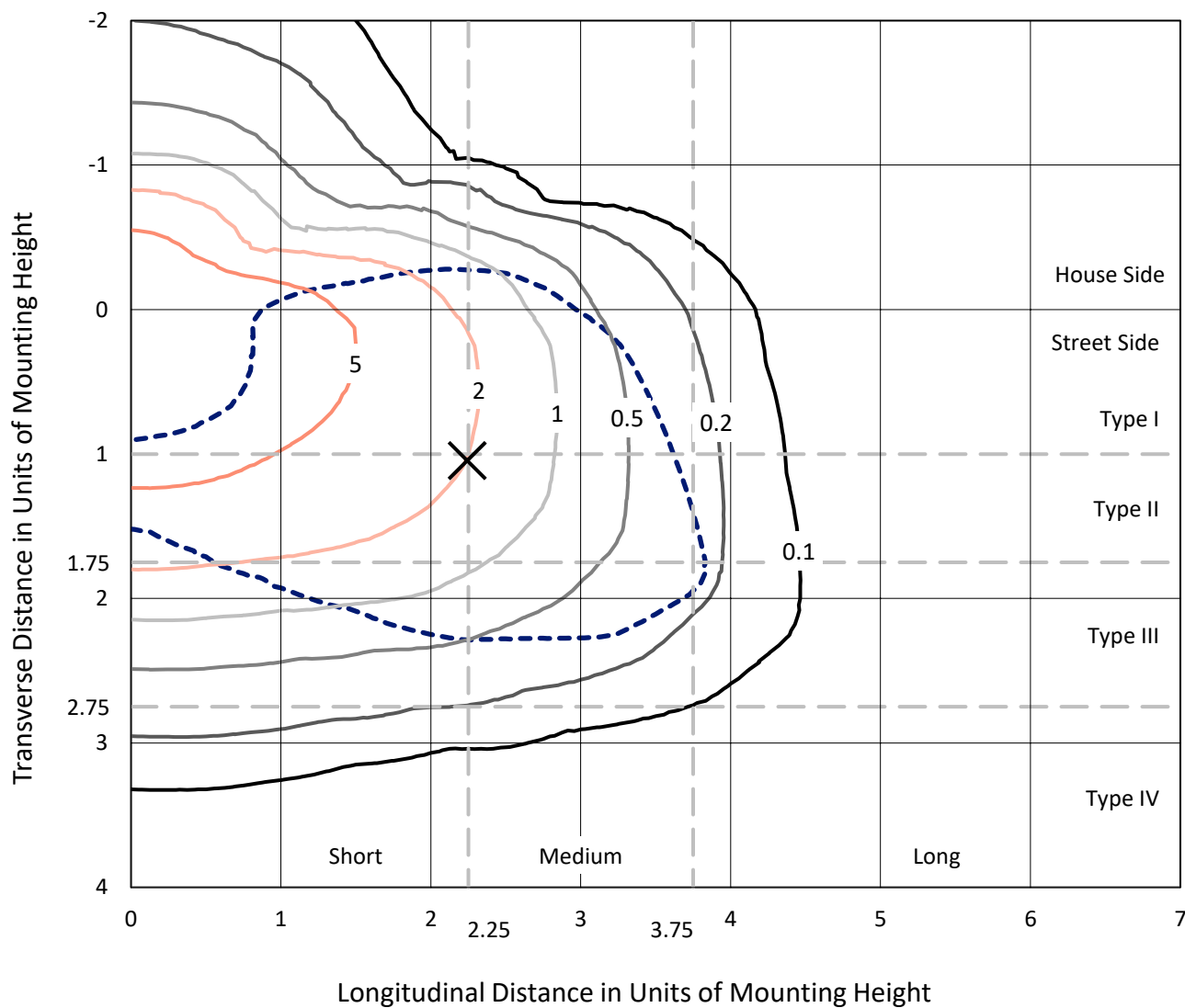
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



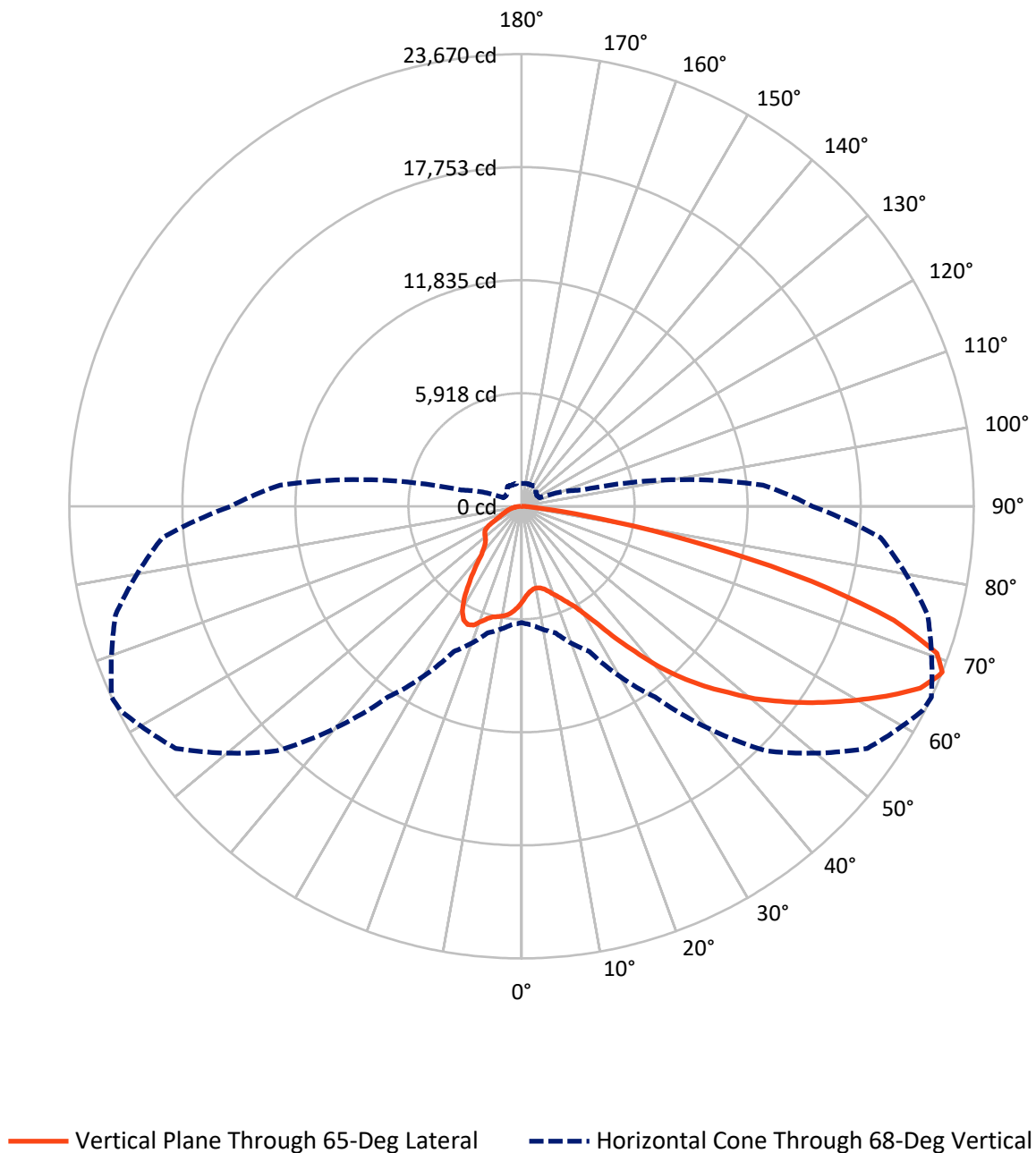
Based on 25 foot mounting height. Maximum calculated value = 9.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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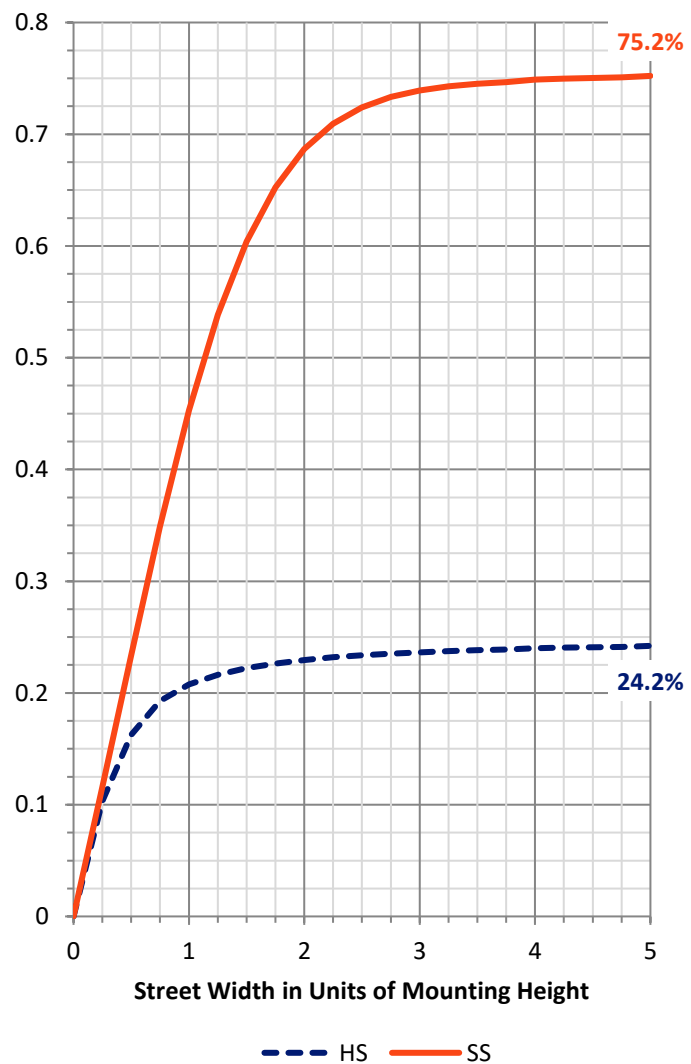
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9575.4	0.0	9575.4
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	29480.6	0.0	29480.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	39056.0	0.0	39056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.0	1.2
10°-20°	1553.0	4.0
20°-30°	2810.9	7.2
30°-40°	4421.8	11.3
40°-50°	6585.8	16.9
50°-60°	8639.2	22.1
60°-70°	9447.5	24.2
70°-80°	4674.9	12.0
80°-90°	445.9	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°	39056.0	100.0
0°-180°	39056.0	100.0

Coefficient of Utilization



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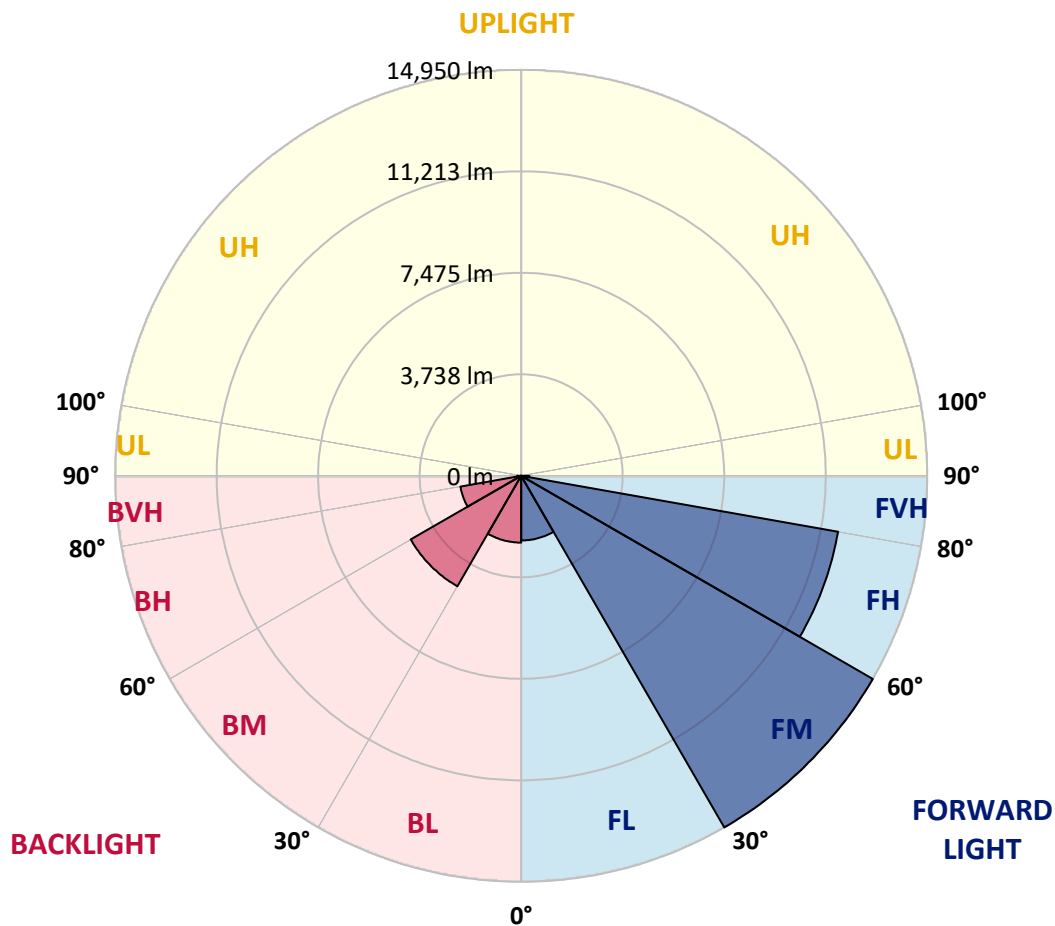
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2380.9	6.1			
FM	(30°-60°)	14950.1	38.3			
FH	(60°-80°)	11849.7	30.3			G4/12000
FVH	(80°-90°)	299.9	0.8			G3/500
BL	(0°-30°)	2460.0	6.3	B3/2500		
BM	(30°-60°)	4696.7	12.0	B3/5000		
BH	(60°-80°)	2272.7	5.8	B3/2500		G3/2500
BVH	(80°-90°)	146.0	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°	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9
2.5°	4356.3	4346.2	4371.4	4396.6	4452.0	4517.5	4608.1	4683.7	4693.7	4834.8	4945.6
5°	4099.5	4084.4	4109.5	4139.8	4164.9	4245.5	4341.2	4452.0	4497.3	4703.8	4940.5
7.5°	4124.7	4119.6	4129.7	4119.6	4119.6	4154.9	4220.3	4331.1	4381.5	4628.3	4965.7
10°	4270.7	4280.8	4285.8	4255.6	4225.4	4210.3	4230.4	4306.0	4341.2	4633.3	5076.5
12.5°	4512.4	4527.6	4532.6	4477.2	4436.9	4371.4	4336.2	4366.4	4391.6	4683.7	5232.6
15°	4839.8	4849.9	4814.6	4779.4	4678.6	4598.1	4512.4	4487.3	4497.3	4789.4	5408.9
17.5°	5222.5	5207.4	5207.4	5121.8	4990.9	4865.0	4724.0	4703.8	4703.8	4960.7	5660.7
20°	5640.6	5655.7	5610.3	5494.5	5363.6	5167.1	5026.1	4935.5	4945.6	5157.1	5967.9
22.5°	6244.9	6270.1	6149.2	5983.0	5781.6	5554.9	5353.5	5207.4	5212.5	5413.9	6285.2
25°	6894.6	6904.6	6829.1	6607.5	6335.5	6013.2	5746.3	5560.0	5554.9	5701.0	6693.1
27.5°	7559.3	7604.7	7453.6	7242.1	6990.3	6587.4	6234.8	5983.0	5942.7	6139.1	7201.8
30°	8244.3	8299.7	8153.6	7947.1	7634.9	7292.4	6874.4	6582.3	6557.1	6819.0	7881.7
32.5°	8934.2	8949.3	8833.5	8662.3	8380.2	8057.9	7720.5	7398.2	7373.0	7801.1	8763.0
35°	9498.3	9543.6	9463.0	9422.7	9216.3	8919.1	8591.8	8405.4	8470.9	9019.8	9906.2
37.5°	10178.2	10223.5	10132.9	10122.8	10057.3	9800.5	9573.8	9588.9	9654.4	10399.8	11109.9
40°	11160.2	11210.6	10978.9	10878.2	10878.2	10626.4	10550.9	10908.4	10994.0	11759.5	12363.9
42.5°	11991.2	12071.8	11935.8	11870.3	11673.9	11497.7	11588.3	12091.9	12238.0	13058.9	13456.7
45°	12394.1	12454.5	12615.7	12807.1	12615.7	12308.5	12651.0	13220.0	13426.5	14257.5	14549.6
47.5°	12610.7	12666.1	12852.4	13366.1	13497.0	13240.2	13723.7	14433.8	14574.8	15446.0	15592.1
50°	12640.9	12817.1	13058.9	13572.6	14171.9	14207.1	14801.4	15667.6	15833.8	16614.4	16508.7
52.5°	12394.1	12464.6	12963.2	13829.4	14494.2	15098.6	15974.9	16851.2	16972.0	17712.3	17319.5
55°	11991.2	12091.9	12590.5	13769.0	14806.5	15944.6	17168.4	18014.5	18150.5	18780.0	18069.9
57.5°	11628.6	11679.0	12212.8	13592.7	15118.7	16790.7	18231.1	19228.2	19318.9	19716.8	18623.9
60°	11225.7	11281.1	11814.9	13215.0	15350.4	17430.3	19339.0	20452.0	20532.6	20703.9	19268.5
62.5°	10183.2	10329.3	10999.1	12590.5	15289.9	18160.6	20522.5	21660.7	21761.5	21575.1	19777.2
65°	8269.5	8475.9	9296.8	11175.3	14725.9	18634.0	21489.5	22773.7	22945.0	22229.8	19913.2
67.5°	6421.2	6567.2	7227.0	8868.8	12746.6	18397.3	22114.0	23539.2	23589.6	22124.1	19157.7
68°	6088.8	6234.8	6864.4	8385.3	12197.7	18115.2	22098.9	23559.4	23670.2	22008.2	18865.6
70°	4658.5	4824.7	5424.0	6642.8	9830.7	16322.3	21177.3	23075.9	23060.8	20608.2	17052.6
72.5°	2910.9	3006.6	3419.6	4190.1	6501.7	12419.3	17974.2	20351.3	20391.6	16800.8	13079.0
75°	1848.3	1848.3	1828.1	2029.6	3334.0	7075.9	13361.1	15667.6	15697.9	11764.6	8244.3
77.5°	1606.6	1561.2	1344.7	1138.2	1329.6	2749.8	7906.8	10117.7	9951.5	6335.5	3913.1
80°	1354.7	1279.2	1102.9	916.6	856.2	861.2	3036.8	5136.9	4915.3	2281.4	1299.3
82.5°	977.0	911.6	831.0	720.2	659.7	513.7	634.6	1485.7	1450.4	659.7	423.0
85°	528.8	478.4	468.4	473.4	397.9	317.3	266.9	327.4	327.4	287.1	241.7
87.5°	186.3	136.0	161.2	181.3	156.1	130.9	105.8	125.9	130.9	125.9	115.8
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°	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9
2.5°	5011.0	5061.4	5182.3	5288.0	5363.6	5429.0	5464.3	5479.4	5514.6	5519.7	5509.6
5°	5051.3	5182.3	5363.6	5519.7	5605.3	5640.6	5650.6	5655.7	5640.6	5650.6	5640.6
7.5°	5157.1	5323.3	5580.1	5716.1	5731.2	5675.8	5680.8	5660.7	5680.8	5701.0	5701.0
10°	5318.2	5529.8	5771.5	5821.9	5756.4	5726.2	5786.6	5907.5	5947.8	6003.2	6003.2
12.5°	5529.8	5781.6	5952.8	5907.5	5847.0	5947.8	6124.0	6244.9	6285.2	6305.3	6290.2
15°	5771.5	6043.4	6129.1	5978.0	6088.8	6305.3	6365.8	6295.3	6194.5	6149.2	6174.4
17.5°	6078.7	6305.3	6255.0	6154.2	6406.1	6436.3	6239.9	6013.2	5852.1	5791.6	5831.9
20°	6401.0	6597.4	6365.8	6411.1	6567.2	6244.9	5872.2	5580.1	5439.1	5413.9	5454.2
22.5°	6743.5	6869.4	6476.6	6708.2	6476.6	5821.9	5373.6	5222.5	5187.3	5227.6	5262.8
25°	7131.3	7116.2	6667.9	6798.9	6139.1	5303.1	5036.2	5026.1	5026.1	5051.3	5101.7
27.5°	7569.4	7332.7	6859.3	6678.0	5554.9	4875.0	4824.7	4829.7	4814.6	4819.7	4844.8
30°	8078.1	7624.8	7070.8	6280.2	4900.2	4552.7	4532.6	4517.5	4482.2	4472.2	4482.2
32.5°	8717.7	7932.0	7287.4	5625.4	4326.1	4220.3	4210.3	4129.7	4044.1	4034.0	4069.3
35°	9528.5	8491.0	7398.2	4804.5	3852.7	3847.7	3812.4	3686.5	3575.7	3575.7	3550.5
37.5°	10455.2	9211.2	7443.5	4003.8	3459.9	3485.1	3384.3	3223.2	3137.6	3087.2	3102.3
40°	11402.0	10032.1	7438.5	3303.8	3117.4	3122.4	3046.9	2850.5	2639.0	2513.1	2543.3
42.5°	12313.5	10777.5	7307.5	2931.1	2840.4	2825.3	2764.9	2498.0	2321.7	2221.0	2226.0
45°	13043.8	11548.0	7106.1	2709.5	2588.6	2613.8	2477.8	2316.7	2155.5	2064.8	2059.8
47.5°	13774.0	12132.2	6783.8	2573.5	2402.3	2356.9	2301.5	2190.8	2069.9	1969.2	1974.2
50°	14438.8	12630.8	6481.6	2482.9	2231.0	2115.2	2125.3	2059.8	1954.0	1863.4	1858.4
52.5°	14907.2	12958.2	6315.4	2432.5	2024.6	1898.7	1933.9	1898.7	1797.9	1732.5	1727.4
55°	15375.5	13210.0	6370.8	2367.0	1797.9	1697.2	1757.6	1747.6	1692.2	1672.0	1677.1
57.5°	15753.3	13401.3	6567.2	2246.1	1581.4	1520.9	1621.7	1591.4	1551.2	1556.2	1556.2
60°	16120.9	13648.1	6798.9	1969.2	1395.0	1400.1	1495.8	1440.4	1415.2	1460.5	1465.5
62.5°	16503.7	13915.0	6607.5	1566.3	1233.9	1269.1	1379.9	1334.6	1344.7	1410.1	1430.3
65°	16458.3	13889.9	5383.7	1284.2	1092.9	1163.4	1329.6	1314.5	1319.5	1344.7	1354.7
67.5°	15531.7	13003.5	3701.6	1092.9	992.1	1077.7	1289.3	1228.8	1233.9	1218.8	1223.8
68°	15219.4	12691.2	3263.5	1062.6	972.0	1057.6	1269.1	1213.7	1218.8	1203.7	1198.6
70°	13517.2	10868.1	2064.8	936.7	901.5	1002.2	1168.4	1148.3	1143.2	1133.1	1133.1
72.5°	10304.1	8022.7	1087.8	810.8	820.9	916.6	1042.5	1082.8	1057.6	1062.6	1092.9
75°	6824.1	4824.7	755.4	695.0	720.2	785.6	926.7	1007.2	982.1	997.2	982.1
77.5°	3611.0	2598.7	604.3	589.2	589.2	634.6	765.5	891.4	891.4	881.3	866.2
80°	1183.5	916.6	483.5	463.3	473.4	498.6	614.4	730.3	745.4	725.2	715.1
82.5°	397.9	423.0	362.6	337.4	347.5	367.6	463.3	559.0	564.1	523.8	513.7
85°	246.8	282.0	226.6	221.6	221.6	226.6	282.0	307.2	282.0	251.8	261.9
87.5°	115.8	141.0	105.8	90.7	75.5	65.5	50.4	20.1	20.1	10.1	10.1
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)