

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: P1211451

Luminaire Tested: **ARCH4-280-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211451
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: ARCH4-280-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37276 lumens
Efficiency: N/A
Efficacy: 133.3 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): 279.7
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

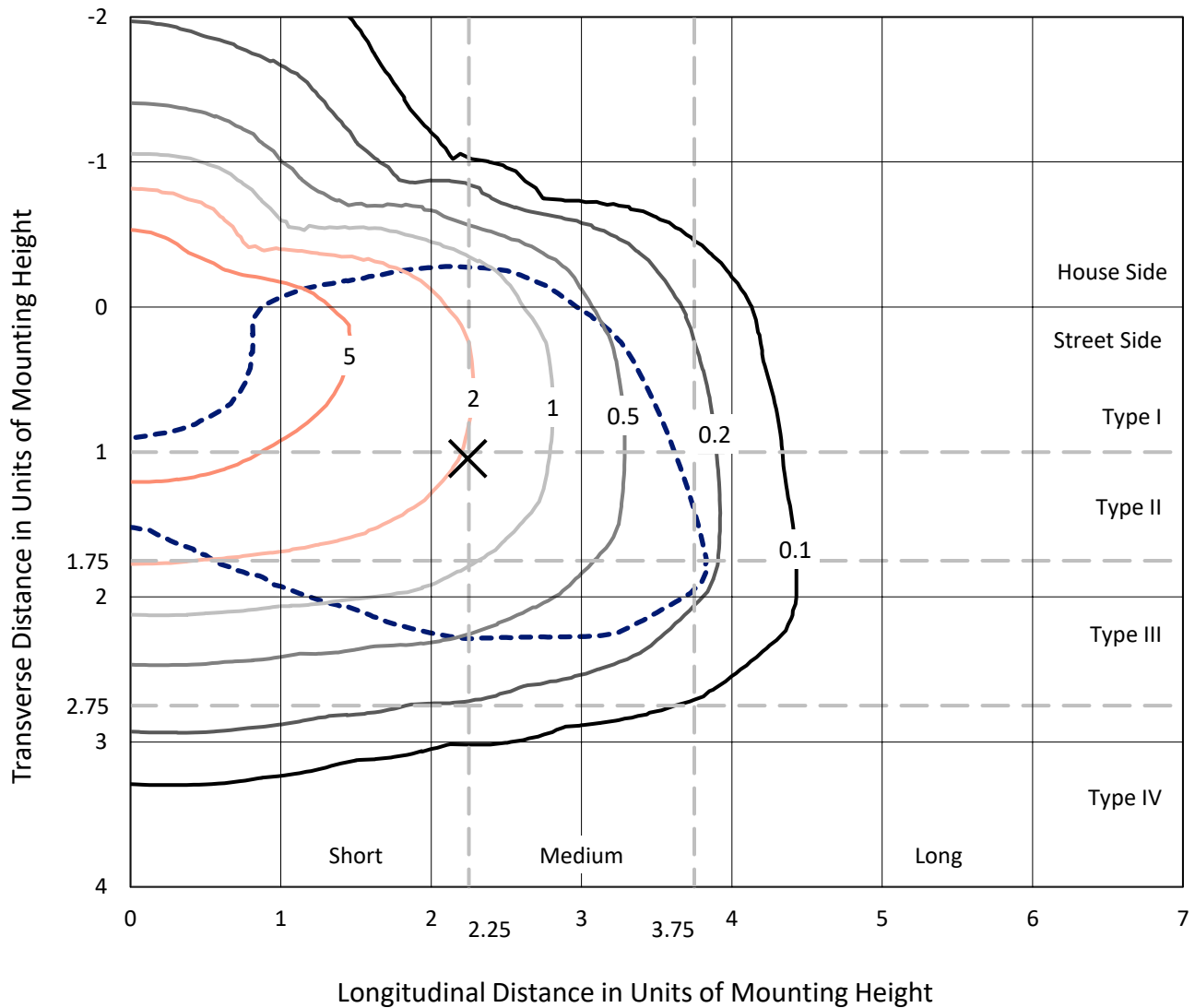


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Iso-Footcandle Lines of Horizontal Illumination

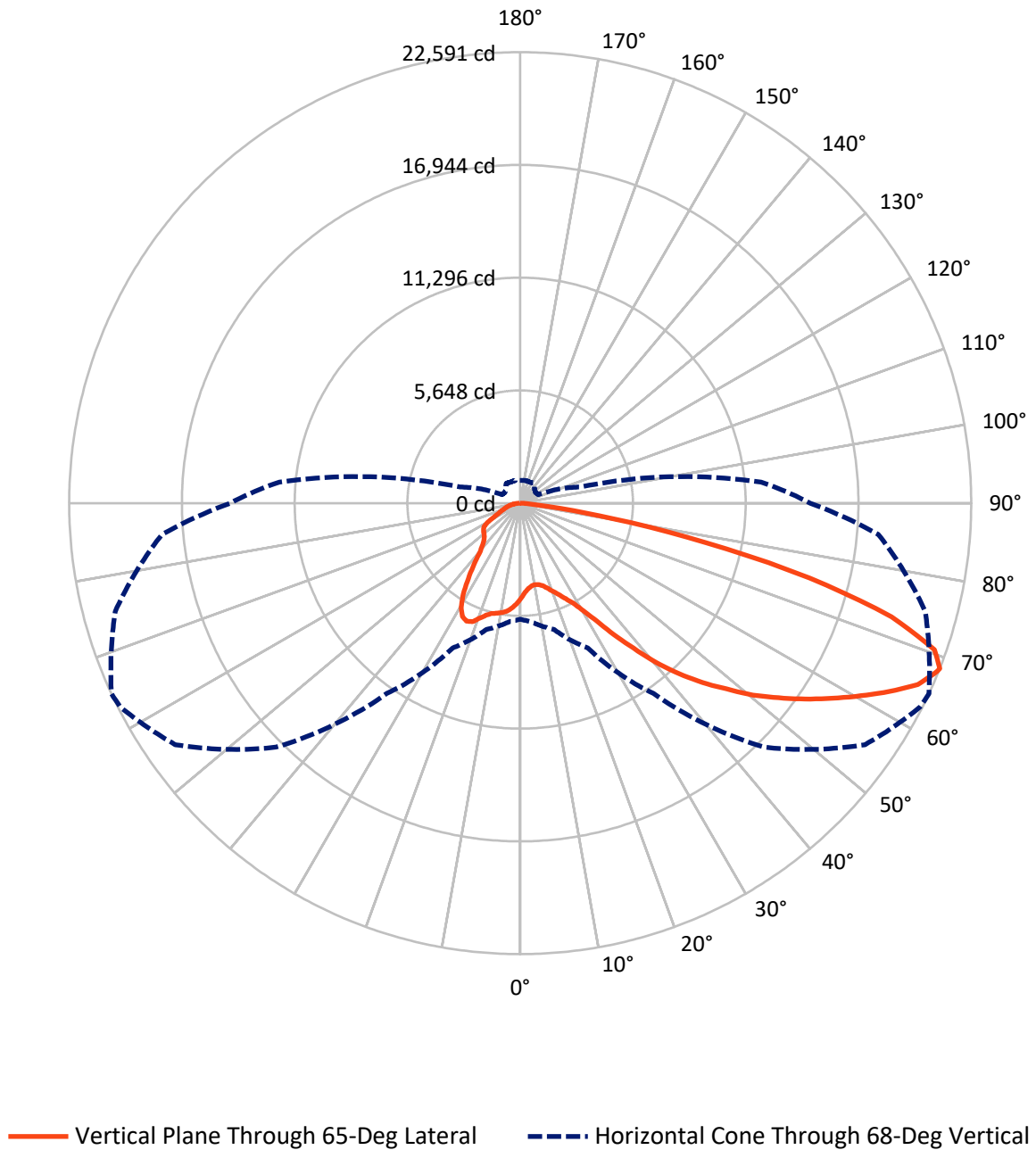
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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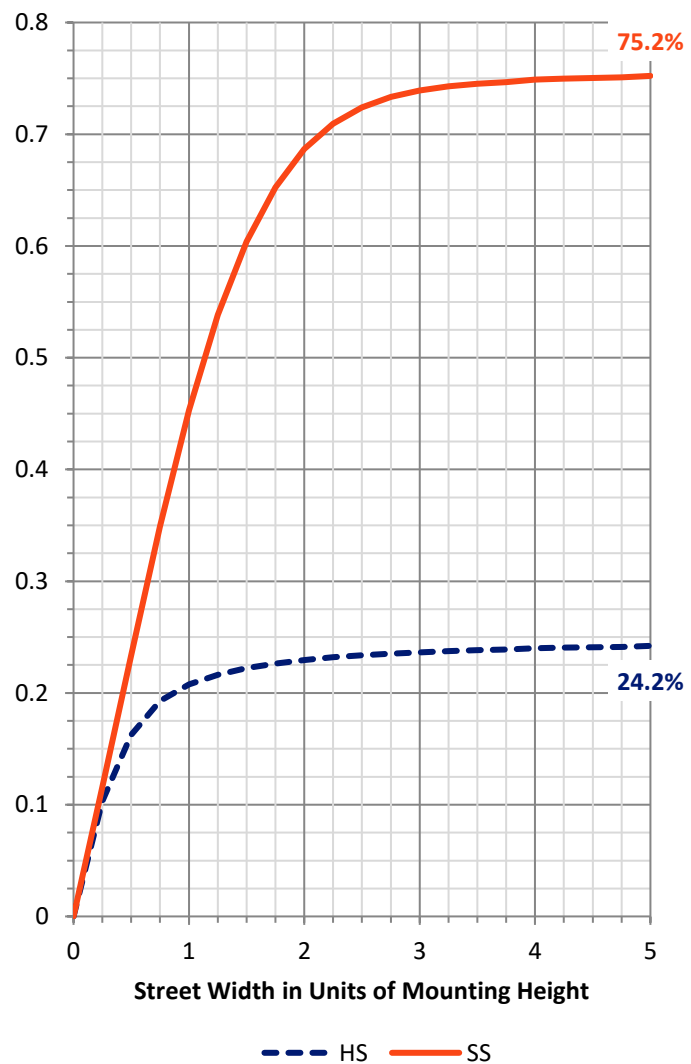
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9139.0	0.0	9139.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	28137.0	0.0	28137.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	37276.0	0.0	37276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.3	1.2
10°-20°	1482.2	4.0
20°-30°	2682.8	7.2
30°-40°	4220.3	11.3
40°-50°	6285.6	16.9
50°-60°	8245.5	22.1
60°-70°	9016.9	24.2
70°-80°	4461.8	12.0
80°-90°	425.6	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°	37276.0	100.0
0°-180°	37276.0	100.0

Coefficient of Utilization



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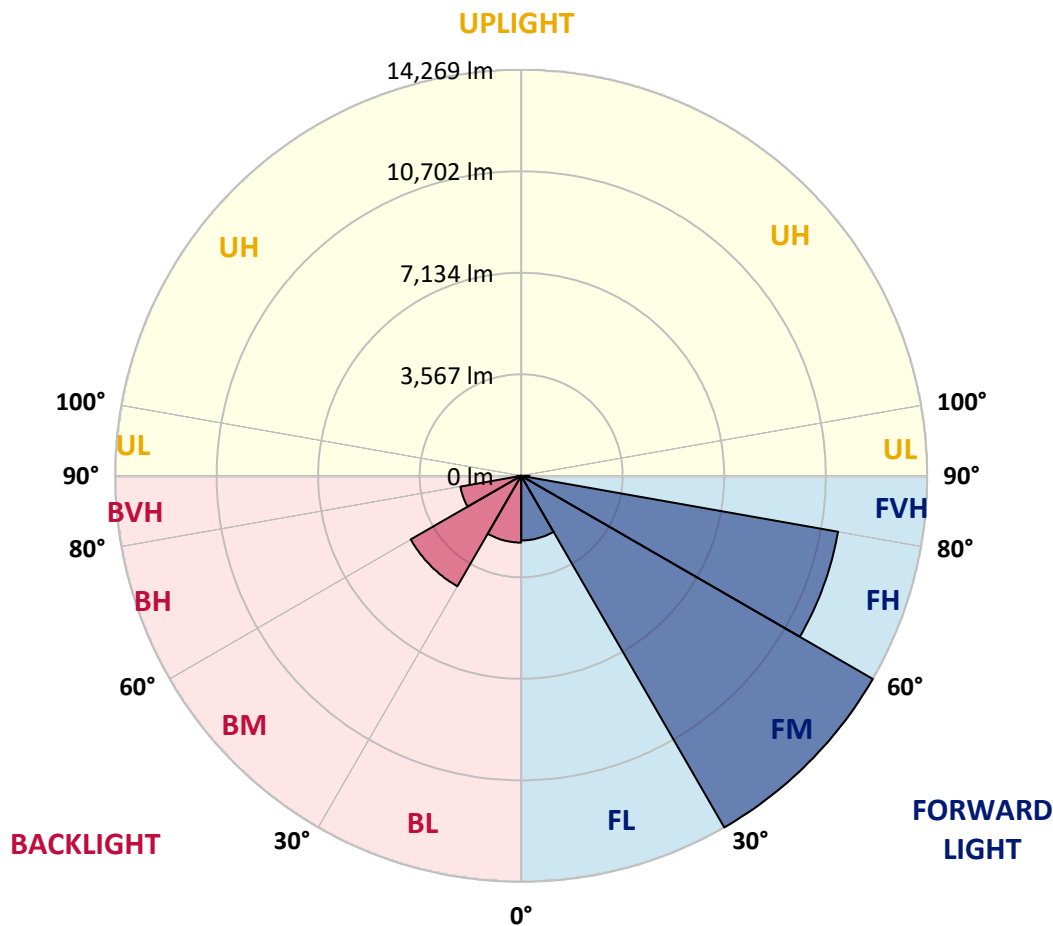
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2272.4	6.1			
FM	(30°-60°)	14268.7	38.3			
FH	(60°-80°)	11309.6	30.3			G4/12000
FVH	(80°-90°)	286.3	0.8			G3/500
BL	(0°-30°)	2347.9	6.3	B3/2500		
BM	(30°-60°)	4482.6	12.0	B3/5000		
BH	(60°-80°)	2169.1	5.8	B3/2500		G3/2500
BVH	(80°-90°)	139.4	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°	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4
2.5°	4157.8	4148.2	4172.2	4196.2	4249.1	4311.6	4398.1	4470.2	4479.8	4614.4	4720.2
5°	3912.6	3898.2	3922.3	3951.1	3975.1	4052.0	4143.4	4249.1	4292.4	4489.4	4715.4
7.5°	3936.7	3931.9	3941.5	3931.9	3931.9	3965.5	4028.0	4133.7	4181.8	4417.3	4739.4
10°	4076.1	4085.7	4090.5	4061.6	4032.8	4018.4	4037.6	4109.7	4143.4	4422.1	4845.1
12.5°	4306.8	4321.2	4326.0	4273.1	4234.7	4172.2	4138.6	4167.4	4191.4	4470.2	4994.1
15°	4619.2	4628.8	4595.2	4561.5	4465.4	4388.5	4306.8	4282.8	4292.4	4571.2	5162.4
17.5°	4984.5	4970.1	4970.1	4888.4	4763.4	4643.3	4508.7	4489.4	4489.4	4734.6	5402.7
20°	5383.5	5397.9	5354.6	5244.1	5119.1	4931.7	4797.1	4710.5	4720.2	4922.0	5695.9
22.5°	5960.3	5984.3	5869.0	5710.3	5518.1	5301.8	5109.5	4970.1	4974.9	5167.2	5998.7
25°	6580.3	6590.0	6517.9	6306.4	6046.8	5739.2	5484.4	5306.6	5301.8	5441.2	6388.1
27.5°	7214.8	7258.1	7113.9	6912.0	6671.7	6287.1	5950.7	5710.3	5671.9	5859.3	6873.6
30°	7868.5	7921.4	7782.0	7584.9	7286.9	6960.1	6561.1	6282.3	6258.3	6508.2	7522.5
32.5°	8527.0	8541.5	8430.9	8267.5	7998.3	7690.7	7368.6	7061.0	7037.0	7445.5	8363.6
35°	9065.4	9108.7	9031.8	8993.3	8796.2	8512.6	8200.2	8022.3	8084.8	8608.8	9454.7
37.5°	9714.3	9757.6	9671.0	9661.4	9598.9	9353.8	9137.5	9151.9	9214.4	9925.8	10603.5
40°	10651.6	10699.7	10478.6	10382.4	10382.4	10142.1	10070.0	10411.3	10493.0	11223.6	11800.4
42.5°	11444.7	11521.6	11391.8	11329.3	11141.9	10973.6	11060.2	11540.8	11680.2	12463.7	12843.4
45°	11829.2	11886.9	12040.7	12223.4	12040.7	11747.5	12074.4	12617.5	12814.6	13607.7	13886.5
47.5°	12035.9	12088.8	12266.6	12756.9	12881.9	12636.8	13098.2	13775.9	13910.5	14742.1	14881.5
50°	12064.8	12233.0	12463.7	12954.0	13526.0	13559.6	14126.8	14953.6	15112.2	15857.2	15756.3
52.5°	11829.2	11896.5	12372.4	13199.1	13833.6	14410.4	15246.8	16083.2	16198.5	16905.1	16530.2
55°	11444.7	11540.8	12016.7	13141.5	14131.6	15217.9	16386.0	17193.5	17323.3	17924.1	17246.4
57.5°	11098.6	11146.7	11656.2	12973.2	14429.7	16025.5	17400.2	18351.9	18438.4	18818.2	17775.1
60°	10714.1	10767.0	11276.5	12612.7	14650.8	16635.9	18457.6	19519.9	19596.8	19760.3	18390.4
62.5°	9719.1	9858.5	10497.8	12016.7	14593.1	17332.9	19587.2	20673.5	20769.7	20591.8	18875.8
65°	7892.6	8089.6	8873.1	10666.0	14054.7	17784.7	20510.1	21735.8	21899.2	21216.7	19005.6
67.5°	6128.5	6267.9	6897.6	8464.6	12165.7	17558.8	21106.1	22466.4	22514.5	21115.7	18284.6
68°	5811.3	5950.7	6551.5	8003.1	11641.8	17289.6	21091.7	22485.6	22591.4	21005.2	18005.8
70°	4446.2	4604.8	5176.8	6340.0	9382.6	15578.4	20212.1	22024.2	22009.8	19668.9	16275.4
72.5°	2778.3	2869.6	3263.7	3999.2	6205.4	11853.3	17155.0	19423.8	19462.2	16035.1	12482.9
75°	1764.1	1764.1	1744.8	1937.1	3182.0	6753.4	12752.1	14953.6	14982.4	11228.4	7868.5
77.5°	1533.3	1490.1	1283.4	1086.3	1269.0	2624.4	7546.5	9656.6	9498.0	6046.8	3734.8
80°	1293.0	1220.9	1052.7	874.8	817.1	821.9	2898.4	4902.8	4691.3	2177.4	1240.1
82.5°	932.5	870.0	793.1	687.4	629.7	490.3	605.6	1418.0	1384.3	629.7	403.8
85°	504.7	456.6	447.0	451.8	379.7	302.8	254.8	312.4	312.4	274.0	230.7
87.5°	177.8	129.8	153.8	173.0	149.0	125.0	100.9	120.2	125.0	120.2	110.6
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°	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4
2.5°	4782.6	4830.7	4946.1	5047.0	5119.1	5181.6	5215.2	5229.7	5263.3	5268.1	5258.5
5°	4821.1	4946.1	5119.1	5268.1	5349.8	5383.5	5393.1	5397.9	5383.5	5393.1	5383.5
7.5°	4922.0	5080.7	5325.8	5455.6	5470.0	5417.1	5421.9	5402.7	5421.9	5441.2	5441.2
10°	5075.9	5277.7	5508.5	5556.5	5494.0	5465.2	5522.9	5638.2	5676.7	5729.6	5729.6
12.5°	5277.7	5518.1	5681.5	5638.2	5580.6	5676.7	5844.9	5960.3	5998.7	6018.0	6003.5
15°	5508.5	5768.0	5849.7	5705.5	5811.3	6018.0	6075.6	6008.3	5912.2	5869.0	5893.0
17.5°	5801.7	6018.0	5969.9	5873.8	6114.1	6142.9	5955.5	5739.2	5585.4	5527.7	5566.1
20°	6109.3	6296.8	6075.6	6118.9	6267.9	5960.3	5604.6	5325.8	5191.2	5167.2	5205.6
22.5°	6436.1	6556.3	6181.4	6402.5	6181.4	5556.5	5128.7	4984.5	4950.9	4989.3	5023.0
25°	6806.3	6791.8	6364.0	6489.0	5859.3	5061.4	4806.7	4797.1	4797.1	4821.1	4869.2
27.5°	7224.4	6998.5	6546.7	6373.7	5301.8	4652.9	4604.8	4609.6	4595.2	4600.0	4624.0
30°	7709.9	7277.3	6748.6	5993.9	4676.9	4345.2	4326.0	4311.6	4277.9	4268.3	4277.9
32.5°	8320.4	7570.5	6955.3	5369.1	4128.9	4028.0	4018.4	3941.5	3859.8	3850.2	3883.8
35°	9094.2	8104.1	7061.0	4585.6	3677.1	3672.3	3638.7	3518.5	3412.7	3412.7	3388.7
37.5°	9978.7	8791.4	7104.3	3821.3	3302.2	3326.2	3230.1	3076.3	2994.6	2946.5	2960.9
40°	10882.3	9574.9	7099.5	3153.2	2975.3	2980.1	2908.0	2720.6	2518.7	2398.5	2427.4
42.5°	11752.3	10286.3	6974.5	2797.5	2711.0	2696.5	2638.9	2384.1	2215.9	2119.7	2124.6
45°	12449.3	11021.7	6782.2	2586.0	2470.6	2494.7	2364.9	2211.1	2057.3	1970.7	1965.9
47.5°	13146.3	11579.3	6474.6	2456.2	2292.8	2249.5	2196.7	2090.9	1975.5	1879.4	1884.2
50°	13780.8	12055.2	6186.2	2369.7	2129.4	2018.8	2028.4	1965.9	1865.0	1778.5	1773.7
52.5°	14227.8	12367.6	6027.6	2321.6	1932.3	1812.1	1845.8	1812.1	1716.0	1653.5	1648.7
55°	14674.8	12607.9	6080.4	2259.1	1716.0	1619.9	1677.5	1667.9	1615.0	1595.8	1600.6
57.5°	15035.3	12790.6	6267.9	2143.8	1509.3	1451.6	1547.8	1518.9	1480.5	1485.3	1485.3
60°	15386.2	13026.1	6489.0	1879.4	1331.5	1336.3	1427.6	1374.7	1350.7	1393.9	1398.7
62.5°	15751.5	13280.9	6306.4	1494.9	1177.6	1211.3	1317.0	1273.8	1283.4	1345.9	1365.1
65°	15708.2	13256.8	5138.3	1225.7	1043.0	1110.3	1269.0	1254.5	1259.4	1283.4	1293.0
67.5°	14823.8	12410.8	3532.9	1043.0	946.9	1028.6	1230.5	1172.8	1177.6	1163.2	1168.0
68°	14525.8	12112.8	3114.7	1014.2	927.7	1009.4	1211.3	1158.4	1163.2	1148.8	1144.0
70°	12901.1	10372.8	1970.7	894.0	860.4	956.5	1115.1	1095.9	1091.1	1081.5	1081.5
72.5°	9834.5	7657.0	1038.2	773.9	783.5	874.8	995.0	1033.4	1009.4	1014.2	1043.0
75°	6513.1	4604.8	721.0	663.3	687.4	749.8	884.4	961.3	937.3	951.7	937.3
77.5°	3446.4	2480.2	576.8	562.4	562.4	605.6	730.6	850.8	850.8	841.2	826.7
80°	1129.6	874.8	461.4	442.2	451.8	475.9	586.4	697.0	711.4	692.2	682.5
82.5°	379.7	403.8	346.1	322.0	331.7	350.9	442.2	533.5	538.3	499.9	490.3
85°	235.5	269.2	216.3	211.5	211.5	216.3	269.2	293.2	269.2	240.3	249.9
87.5°	110.6	134.6	100.9	86.5	72.1	62.5	48.1	19.2	19.2	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)