

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: P1211435

Luminaire Tested: **ARCH4-270-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211435
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: ARCH4-270-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39036 lumens
Efficiency: N/A
Efficacy: 145.1 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): 269
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

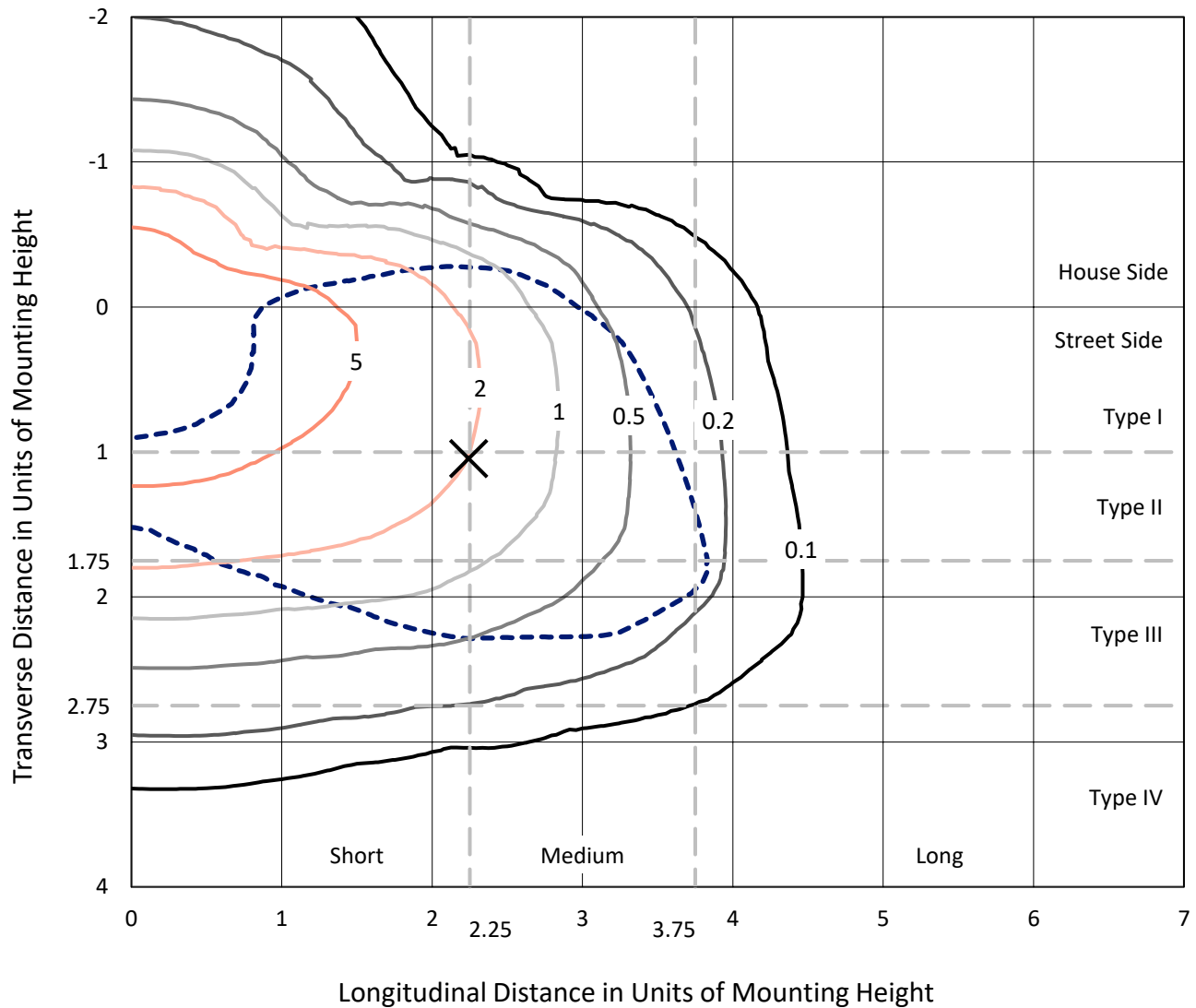


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

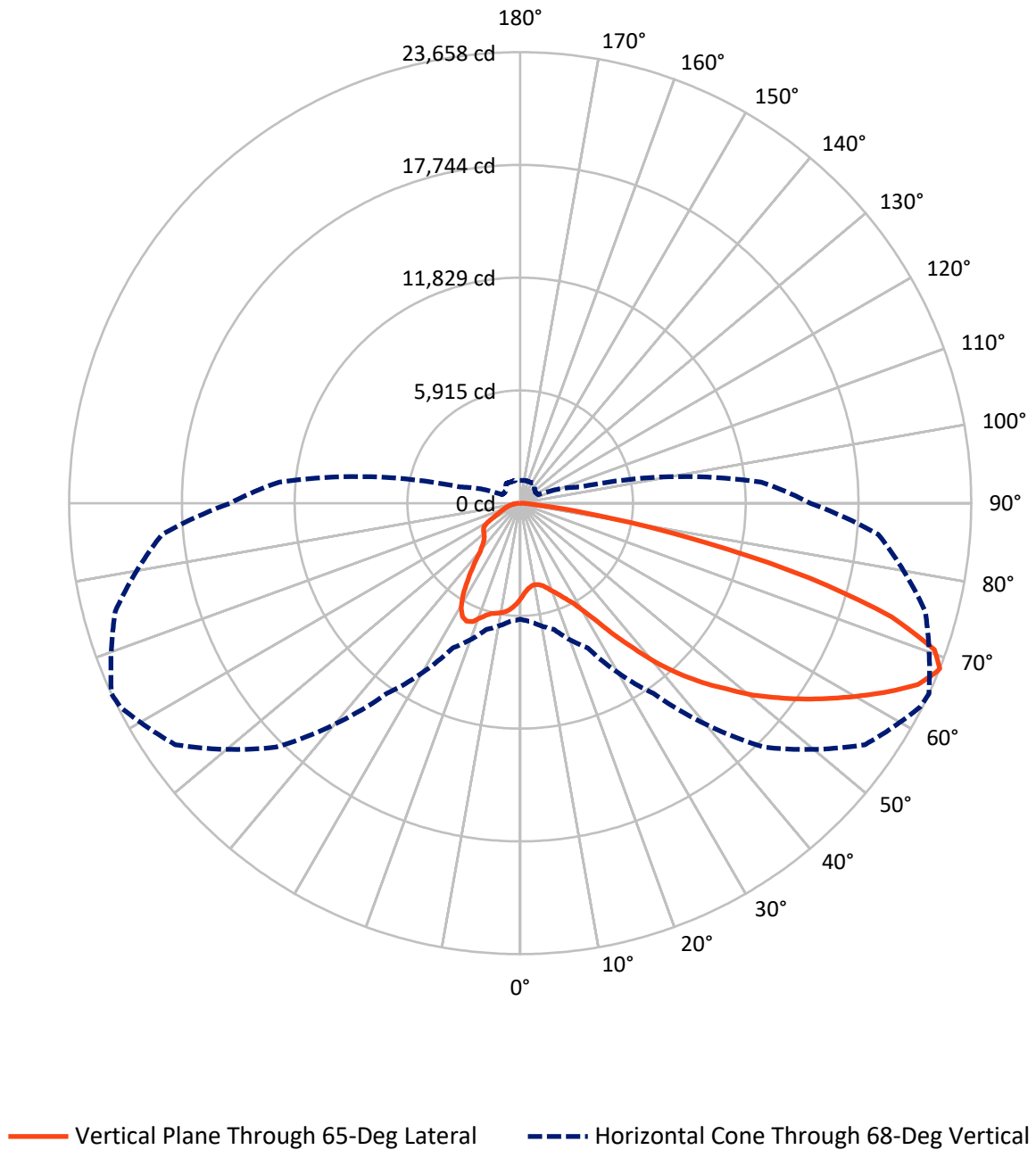


Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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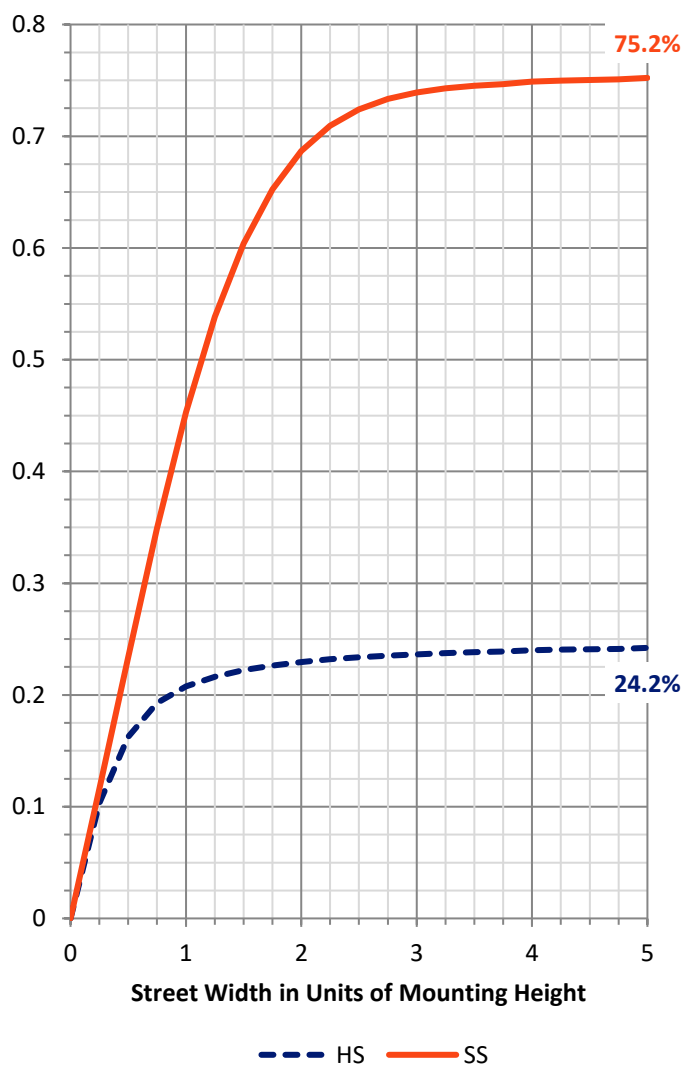
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9570.5	0.0	9570.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	29465.5	0.0	29465.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	39036.0	0.0	39036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.7	1.2
10°-20°	1552.2	4.0
20°-30°	2809.4	7.2
30°-40°	4419.5	11.3
40°-50°	6582.4	16.9
50°-60°	8634.8	22.1
60°-70°	9442.7	24.2
70°-80°	4672.5	12.0
80°-90°	445.7	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°	39036.0	100.0
0°-180°	39036.0	100.0

Coefficient of Utilization



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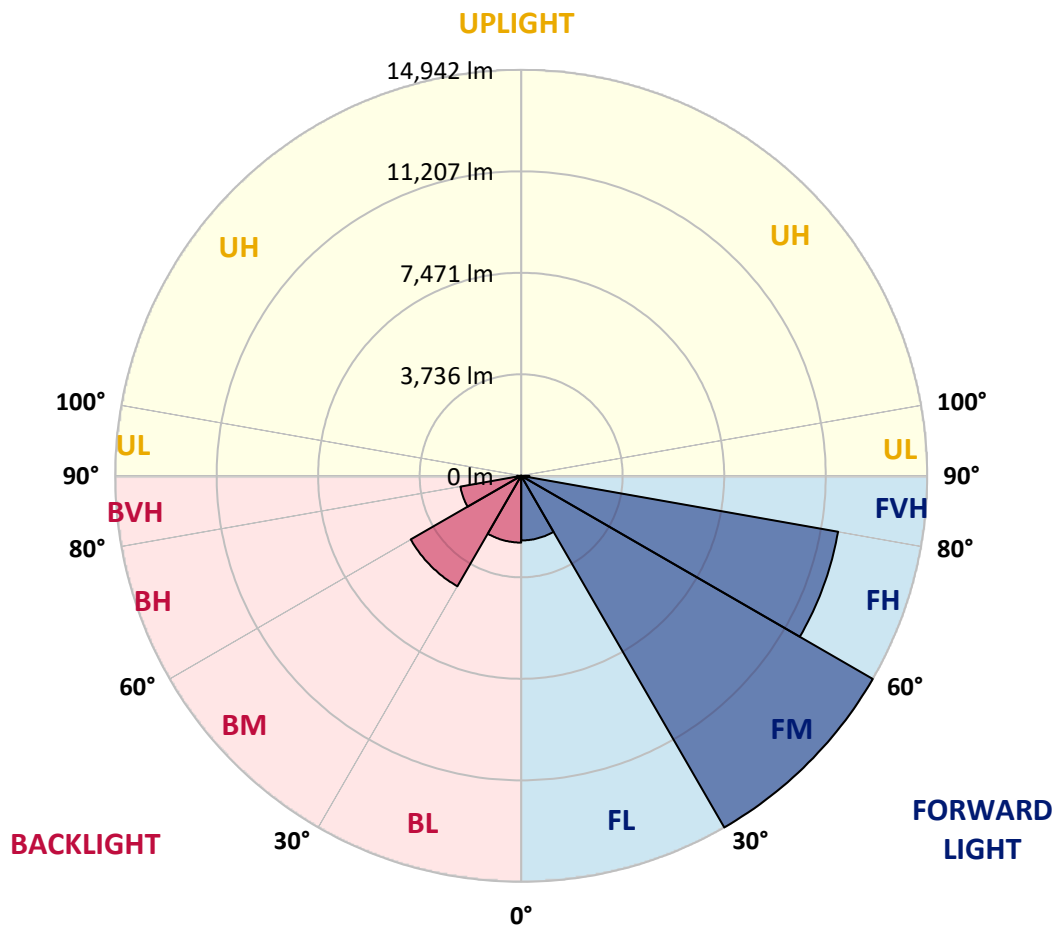
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2379.7	6.1			
FM	(30°-60°)	14942.4	38.3			
FH	(60°-80°)	11843.6	30.3			G4/12000
FVH	(80°-90°)	299.8	0.8			G3/500
BL	(0°-30°)	2458.7	6.3	B3/2500		
BM	(30°-60°)	4694.2	12.0	B3/5000		
BH	(60°-80°)	2271.6	5.8	B3/2500		G3/2500
BVH	(80°-90°)	145.9	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°	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3
2.5°	4354.1	4344.0	4369.2	4394.4	4449.7	4515.2	4605.8	4681.3	4691.3	4832.3	4943.0
5°	4097.4	4082.3	4107.4	4137.6	4162.8	4243.3	4339.0	4449.7	4495.0	4701.4	4938.0
7.5°	4122.5	4117.5	4127.6	4117.5	4117.5	4152.7	4218.2	4328.9	4379.3	4625.9	4963.2
10°	4268.5	4278.6	4283.6	4253.4	4223.2	4208.1	4228.2	4303.8	4339.0	4630.9	5073.9
12.5°	4510.1	4525.2	4530.3	4474.9	4434.6	4369.2	4334.0	4364.2	4389.3	4681.3	5229.9
15°	4837.3	4847.4	4812.1	4776.9	4676.2	4595.7	4510.1	4485.0	4495.0	4787.0	5406.1
17.5°	5219.9	5204.8	5204.8	5119.2	4988.3	4862.5	4721.5	4701.4	4701.4	4958.1	5657.8
20°	5637.7	5652.8	5607.5	5491.7	5360.8	5164.5	5023.6	4933.0	4943.0	5154.4	5964.9
22.5°	6241.7	6266.9	6146.1	5980.0	5778.6	5552.1	5350.7	5204.8	5209.8	5411.2	6282.0
25°	6891.0	6901.1	6825.6	6604.1	6332.3	6010.2	5743.4	5557.1	5552.1	5698.1	6689.7
27.5°	7555.5	7600.8	7449.8	7238.4	6986.7	6584.0	6231.6	5980.0	5939.7	6136.0	7198.1
30°	8240.1	8295.4	8149.4	7943.1	7631.0	7288.7	6870.9	6579.0	6553.8	6815.5	7877.6
32.5°	8929.7	8944.8	8829.0	8657.8	8376.0	8053.8	7716.6	7394.4	7369.2	7797.1	8758.5
35°	9493.4	9538.7	9458.2	9417.9	9211.5	8914.6	8587.4	8401.1	8466.6	9015.2	9901.1
37.5°	10173.0	10218.3	10127.7	10117.6	10052.2	9795.4	9568.9	9584.0	9649.5	10394.4	11104.2
40°	11154.5	11204.9	10973.3	10872.6	10872.6	10621.0	10545.5	10902.8	10988.4	11753.5	12357.6
42.5°	11985.1	12065.6	11929.7	11864.3	11668.0	11491.8	11582.4	12085.7	12231.7	13052.2	13449.9
45°	12387.8	12448.2	12609.2	12800.5	12609.2	12302.2	12644.5	13213.3	13419.7	14250.2	14542.2
47.5°	12604.2	12659.6	12845.8	13359.3	13490.1	13233.4	13716.6	14426.4	14567.3	15438.1	15584.1
50°	12634.4	12810.6	13052.2	13565.6	14164.6	14199.9	14793.8	15659.6	15825.7	16605.9	16500.2
52.5°	12387.8	12458.2	12956.6	13822.3	14486.8	15090.8	15966.7	16842.5	16963.3	17703.3	17310.6
55°	11985.1	12085.7	12584.1	13761.9	14798.9	15936.5	17159.6	18005.3	18141.2	18770.4	18060.7
57.5°	11622.6	11673.0	12206.5	13585.8	15111.0	16782.1	18221.7	19218.4	19309.0	19706.7	18614.4
60°	11220.0	11275.3	11808.9	13208.2	15342.5	17421.4	19329.1	20441.6	20522.1	20693.2	19258.7
62.5°	10178.0	10324.0	10993.4	12584.1	15282.1	18151.3	20512.0	21649.6	21750.3	21564.1	19767.1
65°	8265.2	8471.6	9292.1	11169.6	14718.3	18624.4	21478.5	22762.1	22933.2	22218.4	19903.0
67.5°	6417.9	6563.9	7223.3	8864.2	12740.1	18387.8	22102.7	23527.2	23577.5	22112.7	19147.9
68°	6085.7	6231.6	6860.8	8381.0	12191.4	18106.0	22087.6	23547.3	23658.1	21997.0	18856.0
70°	4656.1	4822.2	5421.2	6639.4	9825.6	16314.0	21166.4	23064.1	23049.0	20597.6	17043.9
72.5°	2909.4	3005.1	3417.8	4188.0	6498.4	12412.9	17965.0	20340.9	20381.2	16792.2	13072.3
75°	1847.3	1847.3	1827.2	2028.6	3332.3	7072.2	13354.2	15659.6	15689.8	11758.6	8240.1
77.5°	1605.7	1560.4	1344.0	1137.6	1328.9	2748.4	7902.8	10112.6	9946.5	6332.3	3911.1
80°	1354.0	1278.5	1102.4	916.1	855.7	860.8	3035.3	5134.3	4912.8	2280.2	1298.7
82.5°	976.5	911.1	830.5	719.8	659.4	513.4	634.2	1484.9	1449.7	659.4	422.8
85°	528.5	478.2	468.1	473.2	397.7	317.1	266.8	327.2	327.2	286.9	241.6
87.5°	186.2	135.9	161.1	181.2	156.0	130.9	105.7	125.8	130.9	125.8	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°	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3
2.5°	5008.5	5058.8	5179.6	5285.3	5360.8	5426.3	5461.5	5476.6	5511.8	5516.9	5506.8
5°	5048.7	5179.6	5360.8	5516.9	5602.4	5637.7	5647.7	5652.8	5637.7	5647.7	5637.7
7.5°	5154.4	5320.5	5577.3	5713.2	5728.3	5672.9	5677.9	5657.8	5677.9	5698.1	5698.1
10°	5315.5	5526.9	5768.5	5818.9	5753.4	5723.2	5783.6	5904.4	5944.7	6000.1	6000.1
12.5°	5526.9	5778.6	5949.7	5904.4	5844.0	5944.7	6120.9	6241.7	6282.0	6302.1	6287.0
15°	5768.5	6040.4	6125.9	5974.9	6085.7	6302.1	6362.5	6292.0	6191.4	6146.1	6171.2
17.5°	6075.6	6302.1	6251.8	6151.1	6402.8	6433.0	6236.7	6010.2	5849.1	5788.7	5828.9
20°	6397.7	6594.1	6362.5	6407.8	6563.9	6241.7	5869.2	5577.3	5436.3	5411.2	5451.4
22.5°	6740.0	6865.9	6473.2	6704.8	6473.2	5818.9	5370.9	5219.9	5184.6	5224.9	5260.1
25°	7127.6	7112.5	6664.5	6795.4	6136.0	5300.4	5033.6	5023.6	5023.6	5048.7	5099.1
27.5°	7565.5	7329.0	6855.8	6674.6	5552.1	4872.6	4822.2	4827.3	4812.1	4817.2	4842.4
30°	8073.9	7620.9	7067.2	6276.9	4897.7	4550.4	4530.3	4515.2	4479.9	4469.9	4479.9
32.5°	8713.2	7928.0	7283.7	5622.6	4323.9	4218.2	4208.1	4127.6	4042.0	4031.9	4067.2
35°	9523.6	8486.7	7394.4	4802.1	3850.7	3845.7	3810.5	3684.6	3573.9	3573.9	3548.7
37.5°	10449.8	9206.5	7439.7	4001.7	3458.1	3483.3	3382.6	3221.5	3136.0	3085.6	3100.7
40°	11396.1	10027.0	7434.7	3302.1	3115.8	3120.8	3045.3	2849.0	2637.6	2511.8	2542.0
42.5°	12307.2	10772.0	7303.8	2929.6	2839.0	2823.9	2763.5	2496.7	2320.5	2219.8	2224.9
45°	13037.1	11542.1	7102.5	2708.1	2587.3	2612.5	2476.5	2315.5	2154.4	2063.8	2058.8
47.5°	13767.0	12126.0	6780.3	2572.2	2401.0	2355.7	2300.4	2189.6	2068.8	1968.1	1973.2
50°	14431.4	12624.3	6478.3	2481.6	2229.9	2114.1	2124.2	2058.8	1953.0	1862.4	1857.4
52.5°	14899.5	12951.5	6312.2	2431.2	2023.5	1897.7	1932.9	1897.7	1797.0	1731.6	1726.5
55°	15367.7	13203.2	6367.5	2365.8	1797.0	1696.3	1756.7	1746.7	1691.3	1671.2	1676.2
57.5°	15745.2	13394.5	6563.9	2245.0	1580.6	1520.2	1620.8	1590.6	1550.4	1555.4	1555.4
60°	16112.6	13641.1	6795.4	1968.1	1394.3	1399.3	1495.0	1439.6	1414.4	1459.8	1464.8
62.5°	16495.2	13907.9	6604.1	1565.5	1233.2	1268.5	1379.2	1333.9	1344.0	1409.4	1429.6
65°	16449.9	13882.7	5380.9	1283.6	1092.3	1162.8	1328.9	1313.8	1318.8	1344.0	1354.0
67.5°	15523.7	12996.8	3699.7	1092.3	991.6	1077.2	1288.6	1228.2	1233.2	1218.1	1223.2
68°	15211.6	12684.7	3261.8	1062.1	971.5	1057.1	1268.5	1213.1	1218.1	1203.0	1198.0
70°	13510.3	10862.6	2063.8	936.3	901.0	1001.7	1167.8	1147.7	1142.6	1132.6	1132.6
72.5°	10298.8	8018.6	1087.3	810.4	820.5	916.1	1042.0	1082.2	1057.1	1062.1	1092.3
75°	6820.6	4822.2	755.0	694.6	719.8	785.2	926.2	1006.7	981.6	996.7	981.6
77.5°	3609.1	2597.4	604.0	588.9	588.9	634.2	765.1	891.0	891.0	880.9	865.8
80°	1182.9	916.1	483.2	463.1	473.2	498.3	614.1	729.9	745.0	724.8	714.8
82.5°	397.7	422.8	362.4	337.3	347.3	367.5	463.1	558.7	563.8	523.5	513.4
85°	246.6	281.9	226.5	221.5	221.5	226.5	281.9	307.1	281.9	251.7	261.7
87.5°	115.8	140.9	105.7	90.6	75.5	65.4	50.3	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)