

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: P1211415

Luminaire Tested: **ARCH4-270-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211415
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: ARCH4-270-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32530 lumens
Efficiency: N/A
Efficacy: 120.9 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



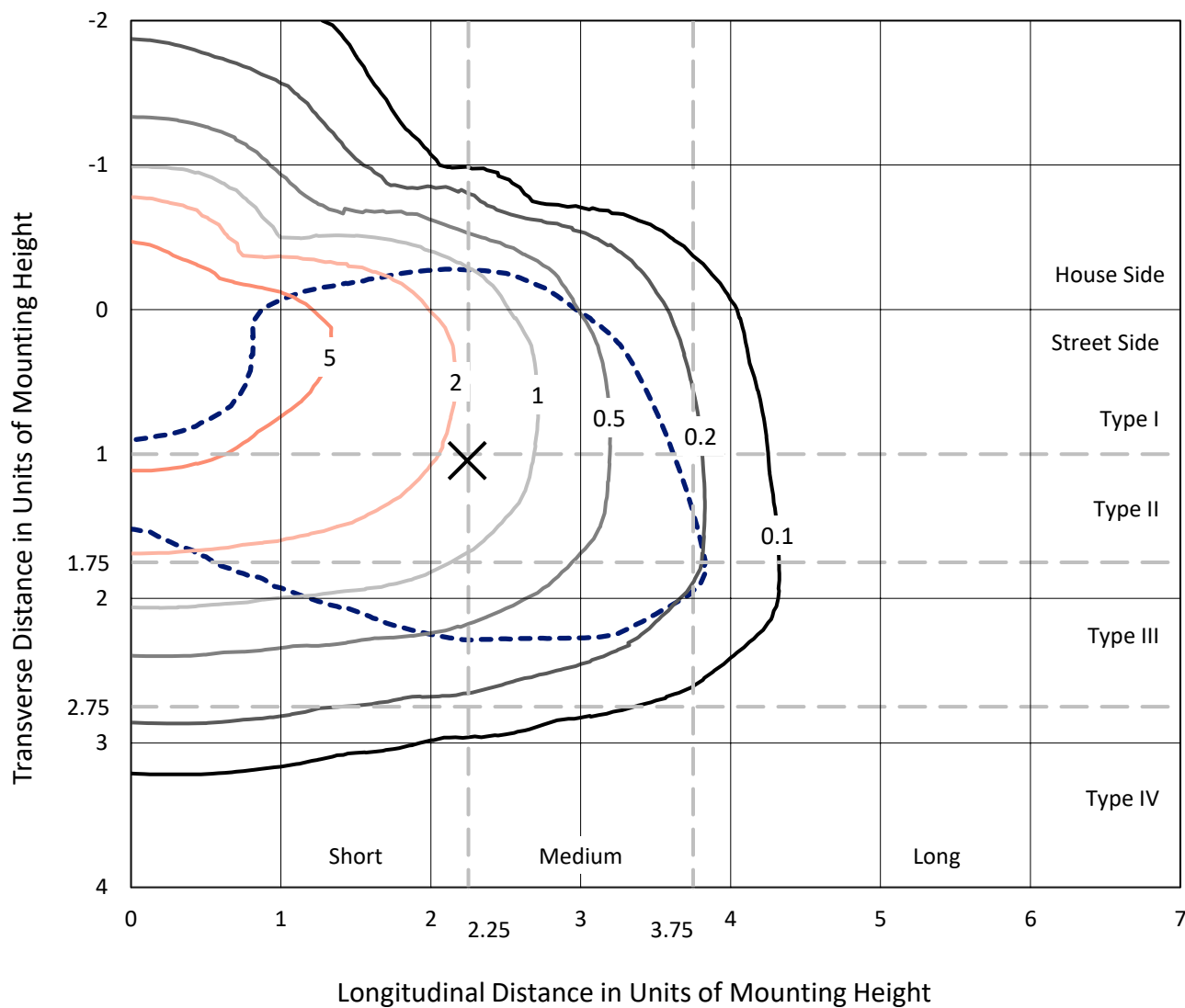
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

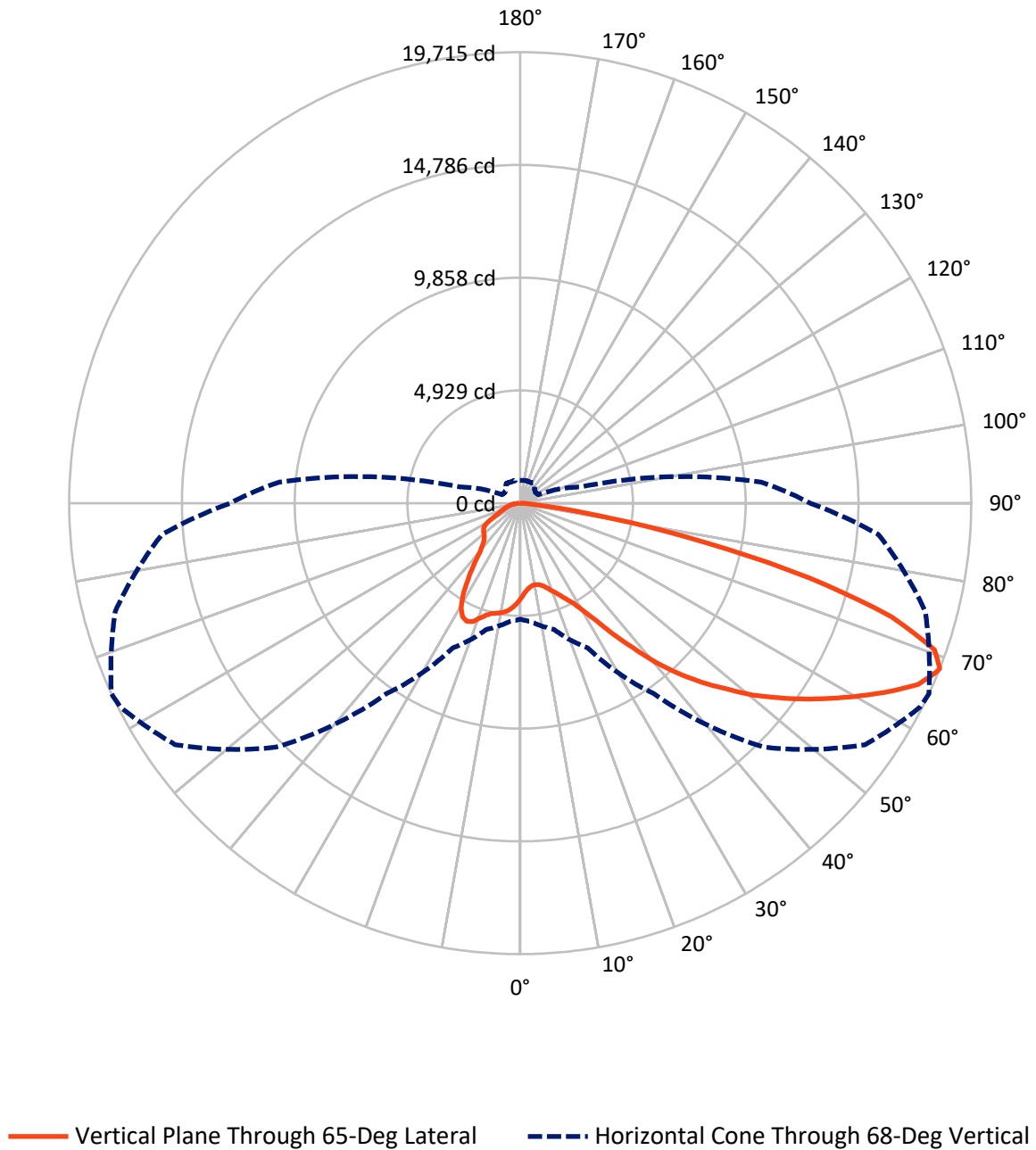


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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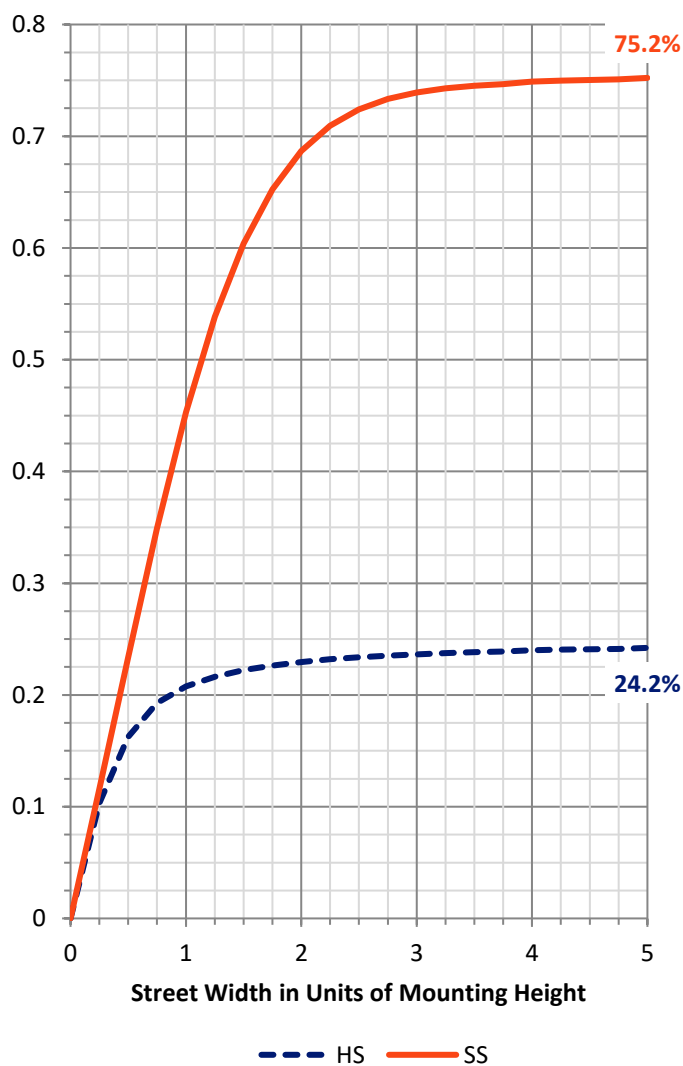
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7975.4	0.0	7975.4
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	24554.6	0.0	24554.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	32530.0	0.0	32530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.3	1.2
10°-20°	1293.5	4.0
20°-30°	2341.2	7.2
30°-40°	3682.9	11.3
40°-50°	5485.3	16.9
50°-60°	7195.7	22.1
60°-70°	7868.9	24.2
70°-80°	3893.8	12.0
80°-90°	371.4	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°	32530.0	100.0
0°-180°	32530.0	100.0

Coefficient of Utilization



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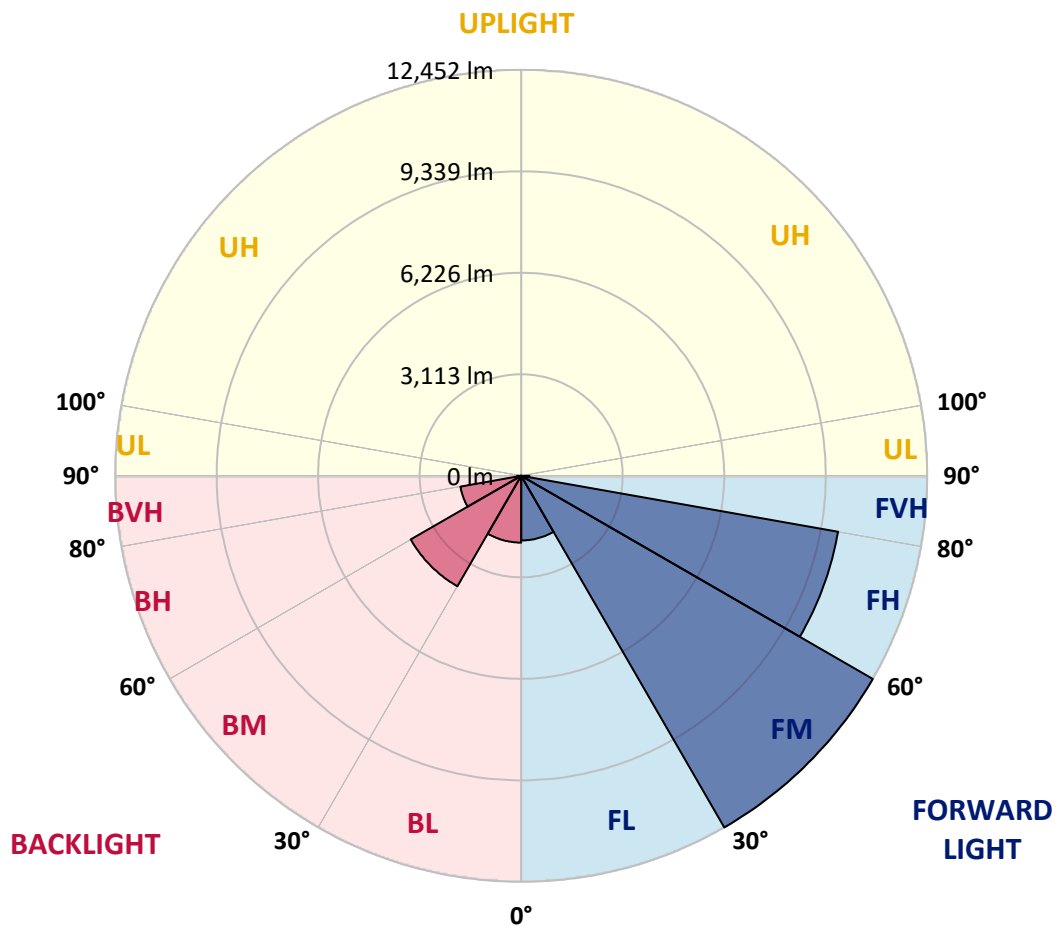
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1983.1	6.1			
FM	(30°-60°)	12452.0	38.3			
FH	(60°-80°)	9869.7	30.3			G4/12000
FVH	(80°-90°)	249.8	0.8			G3/500
BL	(0°-30°)	2048.9	6.3	B3/2500		
BM	(30°-60°)	3911.9	12.0	B3/5000		
BH	(60°-80°)	1893.0	5.8	B3/2500		G3/2500
BVH	(80°-90°)	121.6	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°	4156.9	4156.9	4156.9	4156.9	4156.9	4156.9	4156.9	4156.9	4156.9	4156.9	4156.9
2.5°	3628.4	3620.0	3641.0	3662.0	3708.1	3762.6	3838.1	3901.1	3909.5	4026.9	4119.2
5°	3414.5	3401.9	3422.9	3448.0	3469.0	3536.1	3615.8	3708.1	3745.9	3917.8	4115.0
7.5°	3435.5	3431.3	3439.6	3431.3	3431.3	3460.6	3515.2	3607.4	3649.4	3854.9	4136.0
10°	3557.1	3565.5	3569.7	3544.5	3519.3	3506.8	3523.5	3586.5	3615.8	3859.1	4228.2
12.5°	3758.4	3771.0	3775.2	3729.1	3695.5	3641.0	3611.6	3636.8	3657.8	3901.1	4358.3
15°	4031.1	4039.5	4010.1	3980.8	3896.9	3829.8	3758.4	3737.5	3745.9	3989.2	4505.1
17.5°	4349.9	4337.3	4337.3	4266.0	4156.9	4052.1	3934.6	3917.8	3917.8	4131.8	4714.8
20°	4698.1	4710.6	4672.9	4576.4	4467.3	4303.8	4186.3	4110.8	4119.2	4295.4	4970.7
22.5°	5201.4	5222.4	5121.7	4983.3	4815.5	4626.7	4459.0	4337.3	4341.5	4509.3	5235.0
25°	5742.5	5750.9	5688.0	5503.4	5276.9	5008.5	4786.1	4630.9	4626.7	4748.4	5574.7
27.5°	6296.2	6334.0	6208.1	6032.0	5822.2	5486.7	5193.0	4983.3	4949.7	5113.3	5998.4
30°	6866.7	6912.9	6791.2	6619.2	6359.2	6073.9	5725.8	5482.5	5461.5	5679.6	6564.7
32.5°	7441.4	7454.0	7357.5	7214.9	6980.0	6711.5	6430.5	6162.0	6141.0	6497.6	7298.8
35°	7911.2	7948.9	7881.8	7848.3	7676.3	7428.8	7156.1	7000.9	7055.5	7512.7	8251.0
37.5°	8477.5	8515.2	8439.7	8431.3	8376.8	8162.9	7974.1	7986.7	8041.2	8662.0	9253.5
40°	9295.4	9337.4	9144.4	9060.5	9060.5	8850.8	8787.9	9085.7	9157.0	9794.6	10298.0
42.5°	9987.6	10054.7	9941.4	9886.9	9723.3	9576.5	9652.0	10071.5	10193.1	10876.8	11208.2
45°	10323.1	10373.5	10507.7	10667.1	10507.7	10251.8	10537.1	11011.1	11183.0	11875.2	12118.5
47.5°	10503.5	10549.6	10704.9	11132.7	11241.8	11027.8	11430.5	12022.0	12139.4	12865.1	12986.8
50°	10528.7	10675.5	10876.8	11304.7	11803.9	11833.2	12328.2	13049.7	13188.1	13838.3	13750.2
52.5°	10323.1	10381.9	10797.1	11518.6	12072.3	12575.7	13305.6	14035.4	14136.1	14752.7	14425.5
55°	9987.6	10071.5	10486.7	11468.3	12332.4	13280.4	14299.7	15004.4	15117.7	15642.0	15050.6
57.5°	9685.5	9727.5	10172.1	11321.5	12592.5	13985.1	15184.8	16015.3	16090.8	16422.2	15512.0
60°	9350.0	9396.1	9840.7	11006.9	12785.4	14517.8	16107.6	17034.6	17101.8	17244.4	16048.9
62.5°	8481.7	8603.3	9161.2	10486.7	12735.1	15126.1	17093.4	18041.4	18125.3	17970.1	16472.6
65°	6887.7	7059.7	7743.4	9308.0	12265.3	15520.4	17898.7	18968.4	19111.0	18515.4	16585.8
67.5°	5348.2	5469.9	6019.4	7386.9	10616.8	15323.2	18418.9	19606.0	19647.9	18427.3	15956.6
68°	5071.4	5193.0	5717.4	6984.2	10159.5	15088.3	18406.3	19622.8	19715.0	18330.8	15713.3
70°	3880.1	4018.5	4517.7	5532.8	8188.0	13595.0	17638.7	19220.1	19207.5	17164.7	14203.2
72.5°	2424.5	2504.2	2848.2	3490.0	5415.3	10344.1	14970.9	16950.7	16984.3	13993.5	10893.6
75°	1539.5	1539.5	1522.7	1690.5	2776.9	5893.5	11128.5	13049.7	13074.9	9798.8	6866.7
77.5°	1338.1	1300.4	1120.0	948.0	1107.4	2290.3	6585.7	8427.1	8288.7	5276.9	3259.3
80°	1128.4	1065.5	918.6	763.4	713.1	717.3	2529.4	4278.6	4094.0	1900.2	1082.2
82.5°	813.8	759.2	692.1	599.8	549.5	427.9	528.5	1237.4	1208.1	549.5	352.4
85°	440.4	398.5	390.1	394.3	331.4	264.3	222.3	272.7	272.7	239.1	201.3
87.5°	155.2	113.3	134.2	151.0	130.0	109.1	88.1	104.9	109.1	104.9	96.5
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°	4156.9	4156.9	4156.9	4156.9	4156.9	4156.9	4156.9	4156.9	4156.9	4156.9	4156.9
2.5°	4173.7	4215.7	4316.3	4404.4	4467.3	4521.9	4551.2	4563.8	4593.2	4597.4	4589.0
5°	4207.3	4316.3	4467.3	4597.4	4668.7	4698.1	4706.4	4710.6	4698.1	4706.4	4698.1
7.5°	4295.4	4433.8	4647.7	4761.0	4773.6	4727.4	4731.6	4714.8	4731.6	4748.4	4748.4
10°	4429.6	4605.8	4807.1	4849.1	4794.5	4769.4	4819.7	4920.4	4953.9	5000.1	5000.1
12.5°	4605.8	4815.5	4958.1	4920.4	4870.0	4953.9	5100.7	5201.4	5235.0	5251.8	5239.2
15°	4807.1	5033.6	5104.9	4979.1	5071.4	5251.8	5302.1	5243.4	5159.5	5121.7	5142.7
17.5°	5063.0	5251.8	5209.8	5125.9	5335.6	5360.8	5197.2	5008.5	4874.2	4823.9	4857.5
20°	5331.5	5495.0	5302.1	5339.8	5469.9	5201.4	4891.0	4647.7	4530.3	4509.3	4542.8
22.5°	5616.7	5721.6	5394.4	5587.3	5394.4	4849.1	4475.7	4349.9	4320.5	4354.1	4383.5
25°	5939.7	5927.1	5553.8	5662.8	5113.3	4417.0	4194.7	4186.3	4186.3	4207.3	4249.2
27.5°	6304.6	6107.5	5713.2	5562.2	4626.7	4060.5	4018.5	4022.7	4010.1	4014.3	4035.3
30°	6728.3	6350.8	5889.3	5230.8	4081.4	3792.0	3775.2	3762.6	3733.3	3724.9	3733.3
32.5°	7261.0	6606.6	6069.7	4685.5	3603.2	3515.2	3506.8	3439.6	3368.3	3359.9	3389.3
35°	7936.4	7072.2	6162.0	4001.7	3208.9	3204.7	3175.4	3070.5	2978.2	2978.2	2957.3
37.5°	8708.2	7672.1	6199.8	3334.8	2881.8	2902.7	2818.8	2684.6	2613.3	2571.3	2583.9
40°	9496.8	8355.8	6195.6	2751.7	2596.5	2600.7	2537.8	2374.2	2198.0	2093.2	2118.3
42.5°	10256.0	8976.6	6086.5	2441.3	2365.8	2353.2	2302.9	2080.6	1933.8	1849.9	1854.1
45°	10864.2	9618.4	5918.7	2256.7	2156.1	2177.0	2063.8	1929.6	1795.3	1719.8	1715.6
47.5°	11472.5	10105.0	5650.2	2143.5	2000.9	1963.1	1917.0	1824.7	1724.0	1640.1	1644.3
50°	12026.2	10520.3	5398.6	2068.0	1858.2	1761.8	1770.2	1715.6	1627.5	1552.0	1547.8
52.5°	12416.3	10792.9	5260.1	2026.0	1686.3	1581.4	1610.8	1581.4	1497.5	1443.0	1438.8
55°	12806.4	11002.7	5306.3	1971.5	1497.5	1413.6	1463.9	1455.6	1409.4	1392.6	1396.8
57.5°	13121.0	11162.1	5469.9	1870.8	1317.1	1266.8	1350.7	1325.5	1292.0	1296.2	1296.2
60°	13427.2	11367.6	5662.8	1640.1	1161.9	1166.1	1245.8	1199.7	1178.7	1216.5	1220.7
62.5°	13746.0	11589.9	5503.4	1304.5	1027.7	1057.1	1149.3	1111.6	1120.0	1174.5	1191.3
65°	13708.2	11569.0	4484.1	1069.6	910.2	969.0	1107.4	1094.8	1099.0	1120.0	1128.4
67.5°	12936.4	10830.7	3083.1	910.2	826.4	897.7	1073.8	1023.5	1027.7	1015.1	1019.3
68°	12676.4	10570.6	2718.2	885.1	809.6	880.9	1057.1	1010.9	1015.1	1002.5	998.3
70°	11258.5	9052.1	1719.8	780.2	750.8	834.7	973.2	956.4	952.2	943.8	943.8
72.5°	8582.3	6682.1	906.1	675.3	683.7	763.4	868.3	901.9	880.9	885.1	910.2
75°	5683.8	4018.5	629.2	578.9	599.8	654.4	771.8	838.9	818.0	830.5	818.0
77.5°	3007.6	2164.5	503.4	490.8	490.8	528.5	637.6	742.5	742.5	734.1	721.5
80°	985.8	763.4	402.7	385.9	394.3	415.3	511.8	608.2	620.8	604.0	595.6
82.5°	331.4	352.4	302.0	281.0	289.4	306.2	385.9	465.6	469.8	436.2	427.9
85°	205.5	234.9	188.8	184.6	184.6	188.8	234.9	255.9	234.9	209.7	218.1
87.5°	96.5	117.5	88.1	75.5	62.9	54.5	41.9	16.8	16.8	8.4	8.4
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)