

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: P1211323

Luminaire Tested: **ARCH4-240-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211323
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: ARCH4-240-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33348 lumens
Efficiency: N/A
Efficacy: 138.8 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): 240.2
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

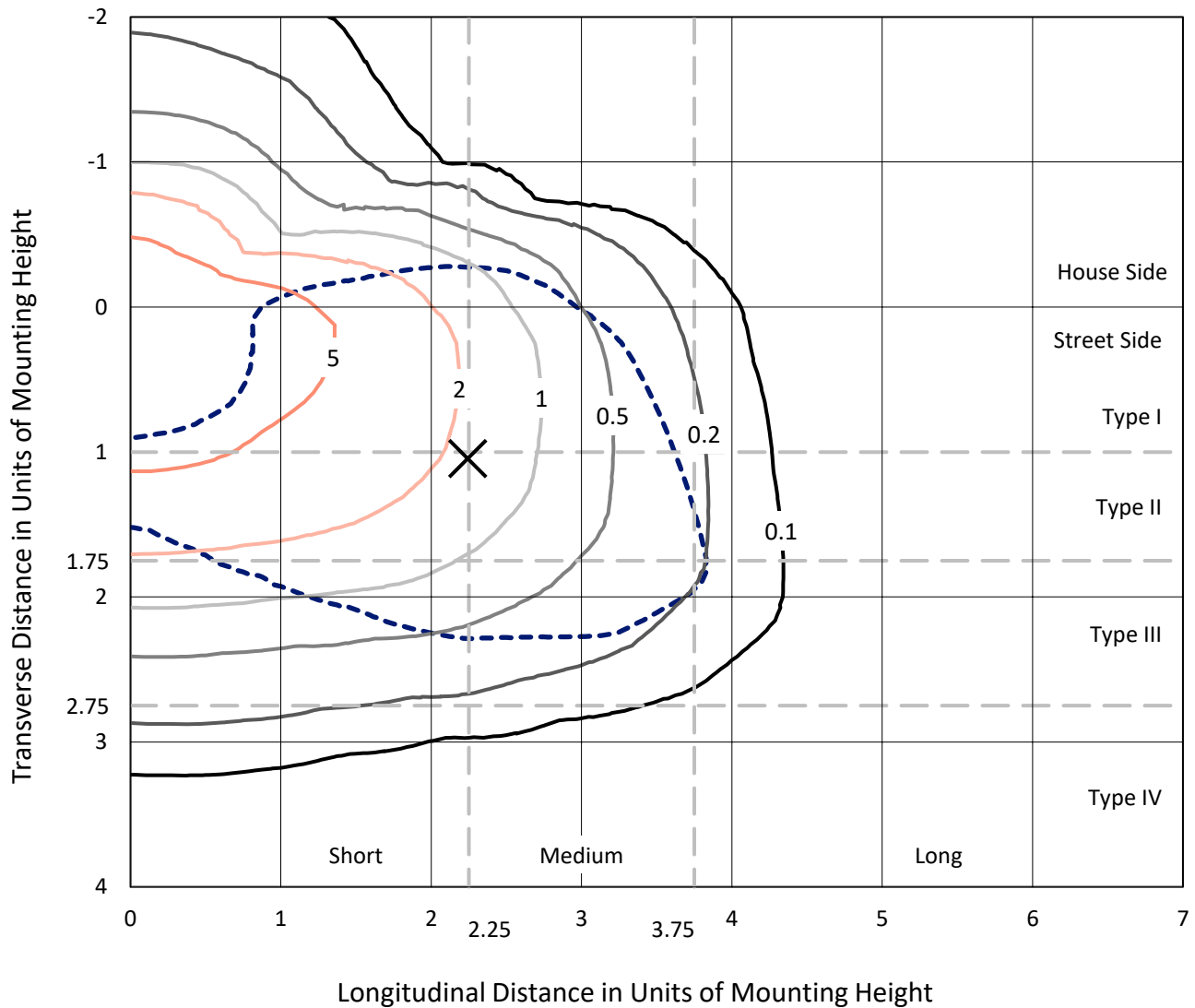


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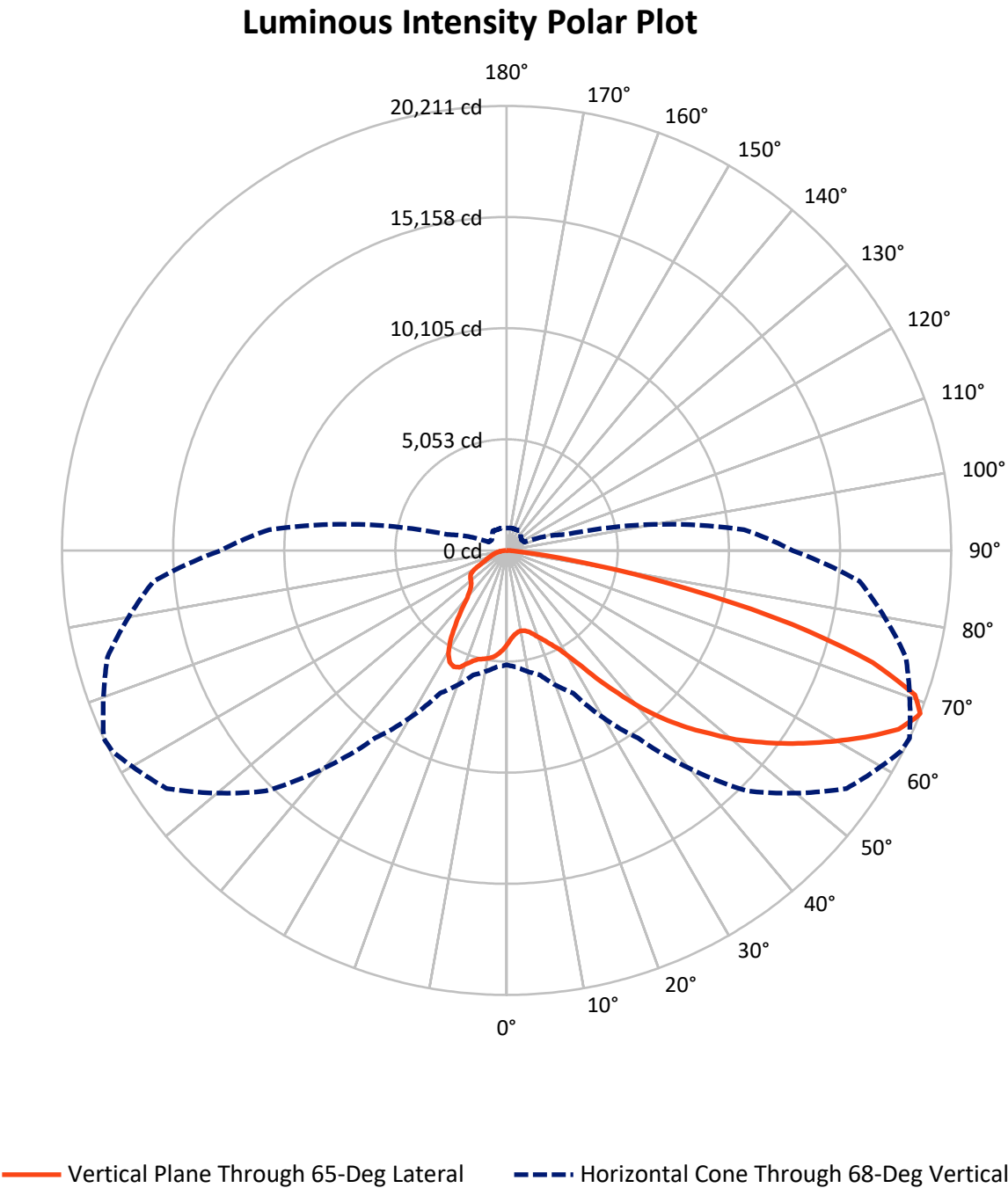
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type III - Short - N/A

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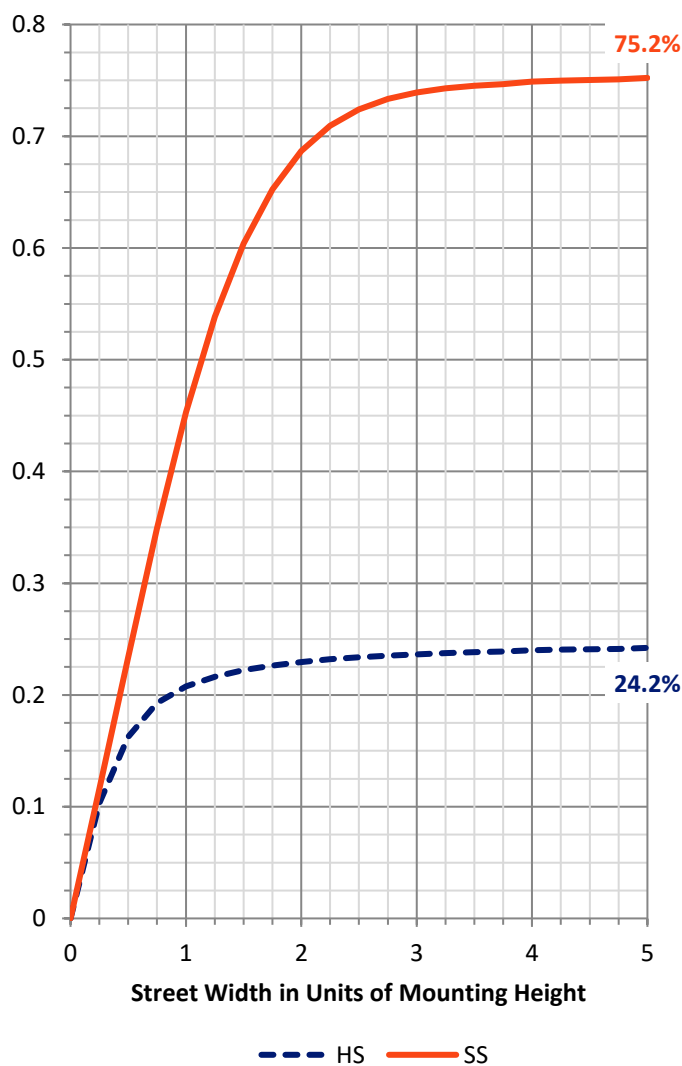
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8175.9	0.0	8175.9
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	25172.0	0.0	25172.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	33348.0	0.0	33348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.3	1.2
10°-20°	1326.1	4.0
20°-30°	2400.1	7.2
30°-40°	3775.5	11.3
40°-50°	5623.3	16.9
50°-60°	7376.6	22.1
60°-70°	8066.8	24.2
70°-80°	3991.7	12.0
80°-90°	380.7	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°	33348.0	100.0
0°-180°	33348.0	100.0

Coefficient of Utilization



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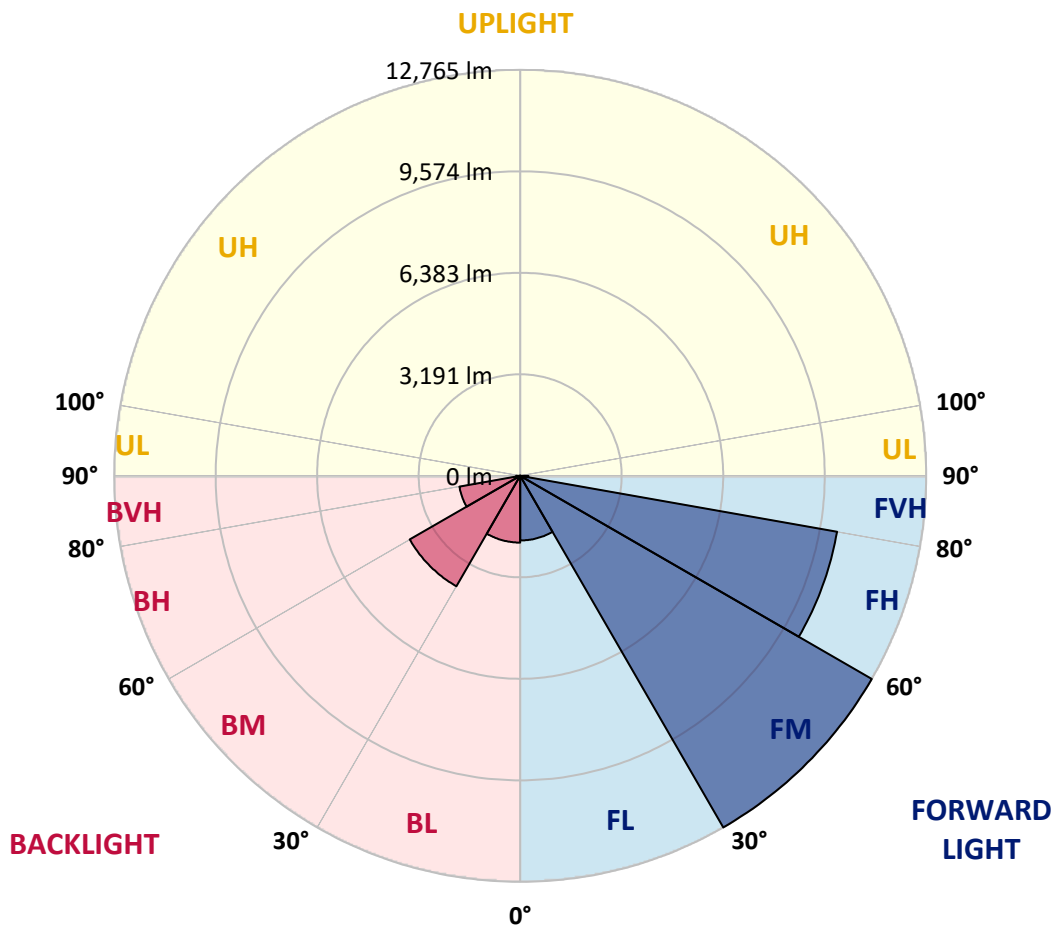
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2032.9	6.1			
FM	(30°-60°)	12765.2	38.3			
FH	(60°-80°)	10117.9	30.3			G4/12000
FVH	(80°-90°)	256.1	0.8			G3/500
BL	(0°-30°)	2100.5	6.3	B3/2500		
BM	(30°-60°)	4010.3	12.0	B3/5000		
BH	(60°-80°)	1940.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	124.7	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°	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5
2.5°	3719.6	3711.0	3732.5	3754.0	3801.4	3857.3	3934.7	3999.2	4007.8	4128.2	4222.8
5°	3500.3	3487.4	3508.9	3534.7	3556.2	3625.0	3706.7	3801.4	3840.1	4016.4	4218.5
7.5°	3521.8	3517.5	3526.1	3517.5	3517.5	3547.6	3603.5	3698.1	3741.1	3951.9	4240.0
10°	3646.5	3655.1	3659.4	3633.6	3607.8	3594.9	3612.1	3676.6	3706.7	3956.2	4334.6
12.5°	3853.0	3865.9	3870.2	3822.9	3788.5	3732.5	3702.4	3728.2	3749.7	3999.2	4467.9
15°	4132.5	4141.1	4111.0	4080.9	3994.9	3926.1	3853.0	3831.5	3840.1	4089.5	4618.4
17.5°	4459.3	4446.4	4446.4	4373.3	4261.5	4154.0	4033.6	4016.4	4016.4	4235.7	4833.4
20°	4816.2	4829.1	4790.4	4691.5	4579.7	4412.0	4291.6	4214.2	4222.8	4403.4	5095.7
22.5°	5332.2	5353.7	5250.5	5108.6	4936.6	4743.1	4571.1	4446.4	4450.7	4622.7	5366.6
25°	5886.9	5895.5	5831.0	5641.8	5409.6	5134.4	4906.5	4747.4	4743.1	4867.8	5714.9
27.5°	6454.6	6493.3	6364.3	6183.6	5968.6	5624.6	5323.6	5108.6	5074.2	5241.9	6149.2
30°	7039.4	7086.7	6962.0	6785.7	6519.1	6226.6	5869.7	5620.3	5598.8	5822.4	6729.8
32.5°	7628.5	7641.4	7542.5	7396.3	7155.5	6880.3	6592.2	6317.0	6295.4	6661.0	7482.3
35°	8110.1	8148.8	8080.0	8045.6	7869.3	7615.6	7336.1	7177.0	7232.9	7701.6	8458.4
37.5°	8690.6	8729.3	8651.9	8643.3	8587.4	8368.1	8174.6	8187.5	8243.4	8879.9	9486.2
40°	9529.2	9572.2	9374.4	9288.4	9288.4	9073.4	9008.9	9314.2	9387.3	10040.9	10556.9
42.5°	10238.7	10307.5	10191.4	10135.5	9967.8	9817.3	9894.7	10324.7	10449.4	11150.3	11490.1
45°	10582.7	10634.3	10771.9	10935.3	10771.9	10509.6	10802.0	11287.9	11464.3	12173.8	12423.2
47.5°	10767.6	10814.9	10974.0	11412.7	11524.5	11305.1	11718.0	12324.3	12444.7	13188.6	13313.3
50°	10793.4	10943.9	11150.3	11589.0	12100.7	12130.8	12638.2	13377.8	13519.7	14186.3	14096.0
52.5°	10582.7	10642.9	11068.6	11808.3	12375.9	12891.9	13640.1	14388.4	14491.6	15123.7	14788.3
55°	10238.7	10324.7	10750.4	11756.7	12642.5	13614.3	14659.3	15381.7	15497.8	16035.3	15429.0
57.5°	9929.1	9972.1	10427.9	11606.2	12909.1	14336.8	15566.6	16418.1	16495.5	16835.2	15902.0
60°	9585.1	9632.4	10088.2	11283.6	13106.9	14882.9	16512.7	17463.0	17531.8	17678.0	16452.5
62.5°	8694.9	8819.6	9391.6	10750.4	13055.3	15506.4	17523.2	18495.0	18581.0	18421.9	16886.8
65°	7060.9	7237.2	7938.1	9542.1	12573.7	15910.6	18348.8	19445.4	19591.6	18981.0	17002.9
67.5°	5482.7	5607.4	6170.7	7572.6	10883.7	15708.5	18882.0	20099.0	20142.0	18890.6	16357.8
68°	5198.9	5323.6	5861.1	7159.8	10415.0	15467.7	18869.1	20116.2	20210.8	18791.7	16108.4
70°	3977.7	4119.6	4631.3	5671.9	8393.9	13936.9	18082.2	19703.4	19690.5	17596.3	14560.4
72.5°	2485.5	2567.2	2919.8	3577.7	5551.5	10604.2	15347.3	17377.0	17411.4	14345.4	11167.5
75°	1578.2	1578.2	1561.0	1733.0	2846.7	6041.7	11408.4	13377.8	13403.6	10045.2	7039.4
77.5°	1371.8	1333.1	1148.1	971.8	1135.2	2347.9	6751.3	8639.0	8497.1	5409.6	3341.2
80°	1156.7	1092.2	941.7	782.6	731.0	735.3	2593.0	4386.2	4197.0	1948.0	1109.4
82.5°	834.2	778.3	709.5	614.9	563.3	438.6	541.8	1268.6	1238.4	563.3	361.2
85°	451.5	408.5	399.9	404.2	339.7	270.9	227.9	279.5	279.5	245.1	206.4
87.5°	159.1	116.1	137.6	154.8	133.3	111.8	90.3	107.5	111.8	107.5	98.9
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°	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5
2.5°	4278.7	4321.7	4424.9	4515.2	4579.7	4635.6	4665.7	4678.6	4708.7	4713.0	4704.4
5°	4313.1	4424.9	4579.7	4713.0	4786.1	4816.2	4824.8	4829.1	4816.2	4824.8	4816.2
7.5°	4403.4	4545.3	4764.6	4880.7	4893.6	4846.3	4850.6	4833.4	4850.6	4867.8	4867.8
10°	4541.0	4721.6	4928.0	4971.0	4915.1	4889.3	4940.9	5044.1	5078.5	5125.8	5125.8
12.5°	4721.6	4936.6	5082.8	5044.1	4992.5	5078.5	5229.0	5332.2	5366.6	5383.8	5370.9
15°	4928.0	5160.2	5233.3	5104.3	5198.9	5383.8	5435.4	5375.2	5289.2	5250.5	5272.0
17.5°	5190.3	5383.8	5340.8	5254.8	5469.8	5495.6	5327.9	5134.4	4996.8	4945.2	4979.6
20°	5465.5	5633.2	5435.4	5474.1	5607.4	5332.2	5014.0	4764.6	4644.2	4622.7	4657.1
22.5°	5757.9	5865.4	5530.0	5727.8	5530.0	4971.0	4588.3	4459.3	4429.2	4463.6	4493.7
25°	6089.0	6076.1	5693.4	5805.2	5241.9	4528.1	4300.2	4291.6	4291.6	4313.1	4356.1
27.5°	6463.2	6261.0	5856.8	5702.0	4743.1	4162.6	4119.6	4123.9	4111.0	4115.3	4136.8
30°	6897.5	6510.5	6037.4	5362.3	4184.1	3887.4	3870.2	3857.3	3827.2	3818.6	3827.2
32.5°	7443.6	6772.8	6222.3	4803.3	3693.8	3603.5	3594.9	3526.1	3453.0	3444.4	3474.5
35°	8135.9	7250.1	6317.0	4102.4	3289.6	3285.3	3255.2	3147.7	3053.1	3053.1	3031.6
37.5°	8927.2	7865.0	6355.7	3418.6	2954.2	2975.7	2889.7	2752.1	2679.0	2636.0	2648.9
40°	9735.6	8565.9	6351.4	2820.9	2661.8	2666.1	2601.6	2433.9	2253.3	2145.8	2171.6
42.5°	10513.9	9202.4	6239.5	2502.7	2425.3	2412.4	2360.8	2132.9	1982.4	1896.4	1900.7
45°	11137.4	9860.3	6067.5	2313.5	2210.3	2231.8	2115.7	1978.1	1840.5	1763.1	1758.8
47.5°	11761.0	10359.1	5792.3	2197.4	2051.2	2012.5	1965.2	1870.6	1767.4	1681.4	1685.7
50°	12328.6	10784.8	5534.3	2120.0	1905.0	1806.1	1814.7	1758.8	1668.5	1591.1	1586.8
52.5°	12728.5	11064.3	5392.4	2077.0	1728.7	1621.2	1651.3	1621.2	1535.2	1479.3	1475.0
55°	13128.4	11279.3	5439.7	2021.1	1535.2	1449.2	1500.8	1492.2	1444.9	1427.7	1432.0
57.5°	13450.9	11442.8	5607.4	1917.9	1350.3	1298.7	1384.7	1358.9	1324.5	1328.8	1328.8
60°	13764.8	11653.5	5805.2	1681.4	1191.1	1195.4	1277.2	1229.8	1208.3	1247.0	1251.3
62.5°	14091.7	11881.4	5641.8	1337.4	1053.5	1083.6	1178.2	1139.5	1148.1	1204.0	1221.2
65°	14053.0	11859.9	4596.9	1096.5	933.1	993.3	1135.2	1122.3	1126.6	1148.1	1156.7
67.5°	13261.7	11103.0	3160.6	933.1	847.1	920.2	1100.8	1049.2	1053.5	1040.6	1044.9
68°	12995.1	10836.4	2786.5	907.3	829.9	903.0	1083.6	1036.3	1040.6	1027.7	1023.4
70°	11541.7	9279.8	1763.1	799.8	769.7	855.7	997.6	980.4	976.1	967.5	967.5
72.5°	8798.1	6850.2	928.8	692.3	700.9	782.6	890.1	924.5	903.0	907.3	933.1
75°	5826.7	4119.6	645.0	593.4	614.9	670.8	791.2	860.0	838.5	851.4	838.5
77.5°	3083.2	2218.9	516.0	503.1	503.1	541.8	653.6	761.1	761.1	752.5	739.6
80°	1010.5	782.6	412.8	395.6	404.2	425.7	524.6	623.5	636.4	619.2	610.6
82.5°	339.7	361.2	309.6	288.1	296.7	313.9	395.6	477.3	481.6	447.2	438.6
85°	210.7	240.8	193.5	189.2	189.2	193.5	240.8	262.3	240.8	215.0	223.6
87.5°	98.9	120.4	90.3	77.4	64.5	55.9	43.0	17.2	17.2	8.6	8.6
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)