

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: P1210571

Luminaire Tested: **ARCH3-160-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210571
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: ARCH3-160-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22668 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 161
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

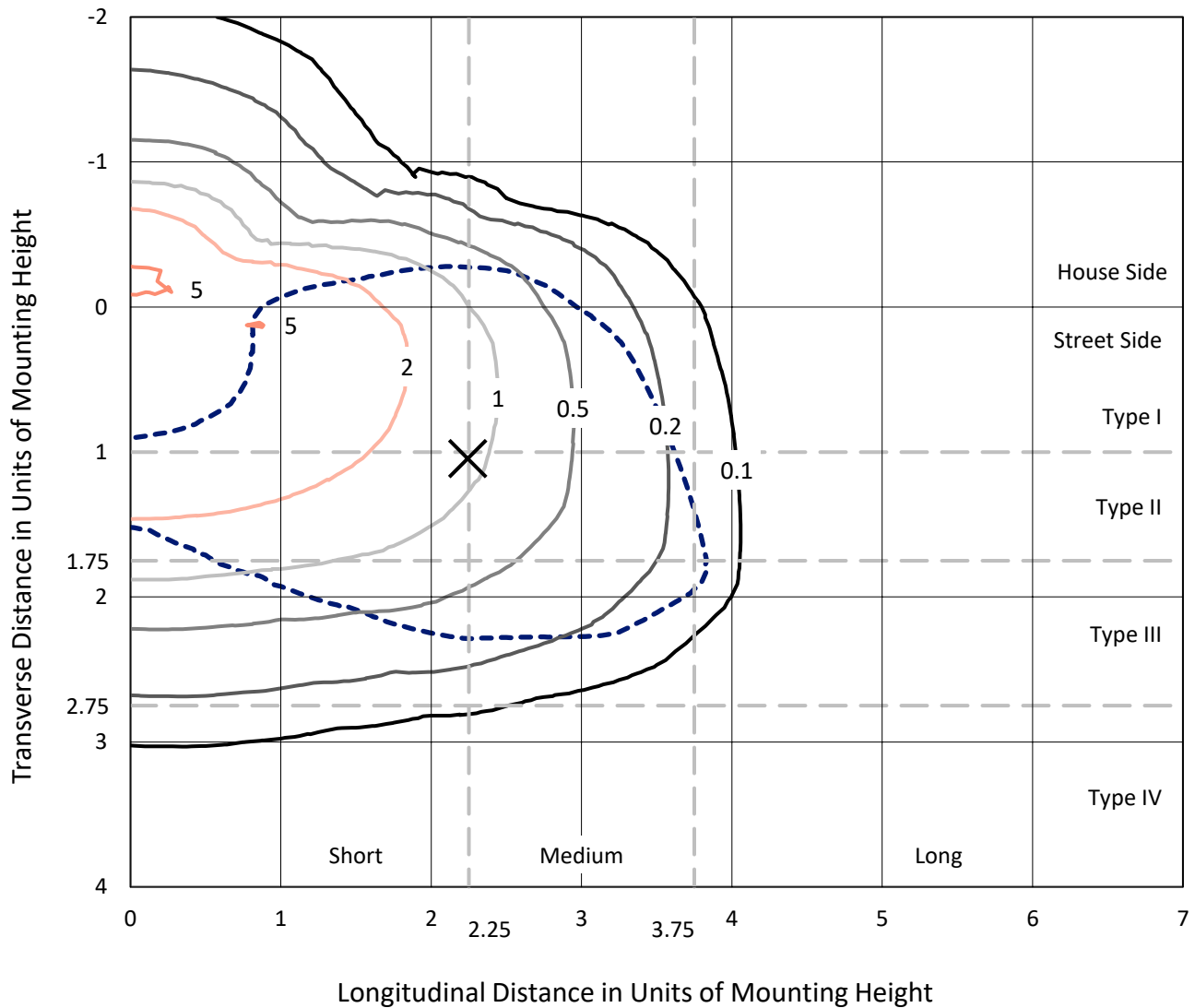


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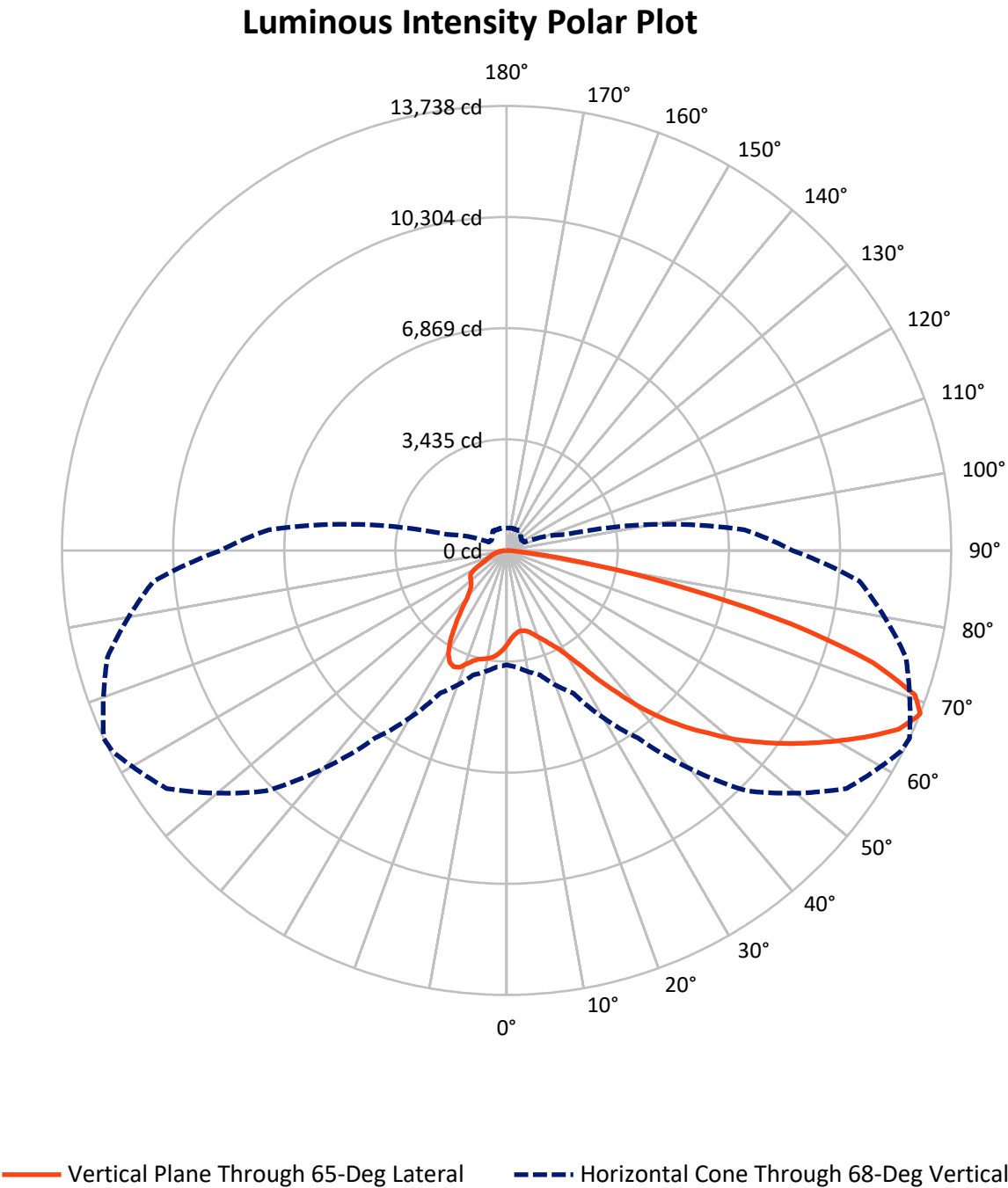
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type III - Short - N/A

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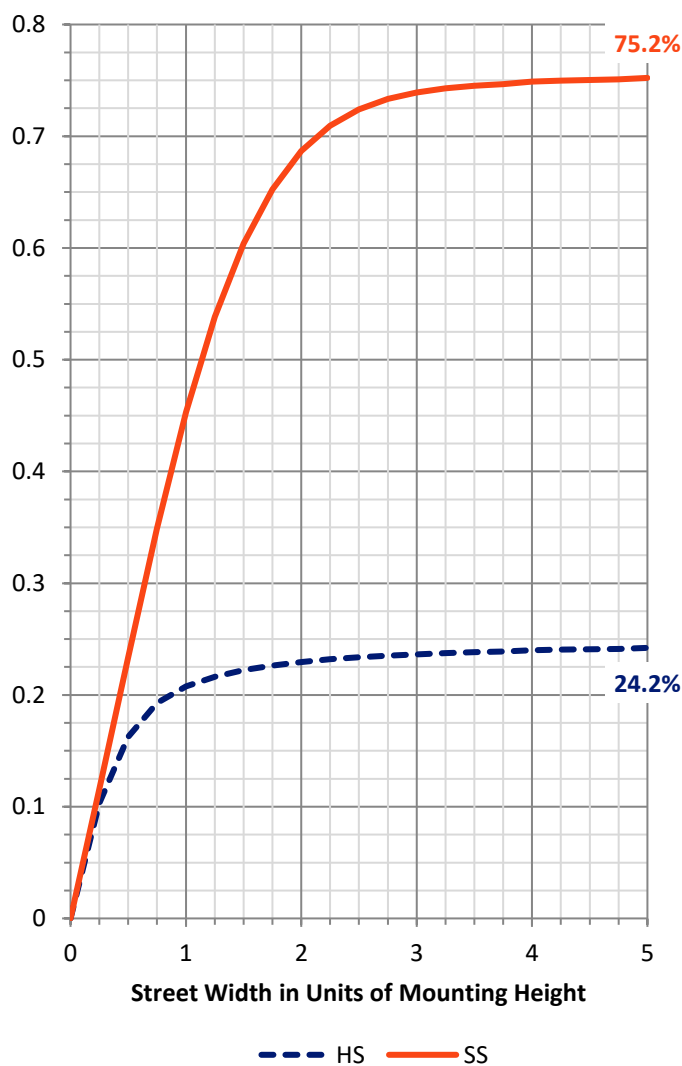
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5557.5	0.0	5557.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	17110.5	0.0	17110.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	22668.0	0.0	22668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	1.2
10°-20°	901.4	4.0
20°-30°	1631.4	7.2
30°-40°	2566.4	11.3
40°-50°	3822.4	16.9
50°-60°	5014.2	22.1
60°-70°	5483.3	24.2
70°-80°	2713.3	12.0
80°-90°	258.8	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°	22668.0	100.0
0°-180°	22668.0	100.0

Coefficient of Utilization



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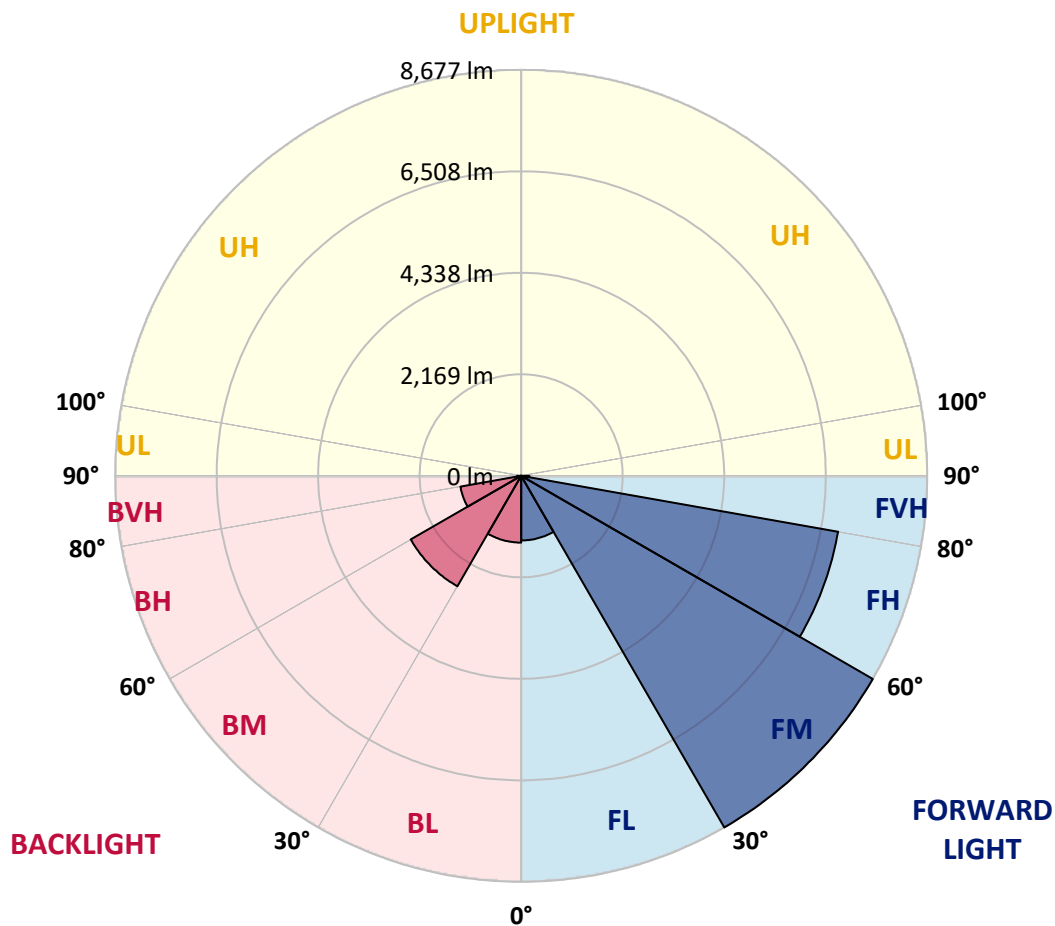
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1381.9	6.1			
FM	(30°-60°)	8677.0	38.3			
FH	(60°-80°)	6877.5	30.3			G3/7500
FVH	(80°-90°)	174.1	0.8			G2/225
BL	(0°-30°)	1427.8	6.3	B3/2500		
BM	(30°-60°)	2725.9	12.0	B3/5000		
BH	(60°-80°)	1319.1	5.8	B3/2500		G3/2500
BVH	(80°-90°)	84.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7
2.5°	2528.4	2522.6	2537.2	2551.8	2583.9	2621.9	2674.5	2718.4	2724.2	2806.1	2870.4
5°	2379.3	2370.6	2385.2	2402.7	2417.3	2464.1	2519.6	2583.9	2610.2	2730.1	2867.5
7.5°	2393.9	2391.0	2396.9	2391.0	2391.0	2411.5	2449.5	2513.8	2543.0	2686.2	2882.1
10°	2478.7	2484.6	2487.5	2469.9	2452.4	2443.6	2455.3	2499.2	2519.6	2689.2	2946.4
12.5°	2619.0	2627.8	2630.7	2598.5	2575.2	2537.2	2516.7	2534.2	2548.9	2718.4	3037.0
15°	2809.0	2814.9	2794.4	2773.9	2715.5	2668.7	2619.0	2604.4	2610.2	2779.8	3139.3
17.5°	3031.2	3022.4	3022.4	2972.7	2896.7	2823.6	2741.8	2730.1	2730.1	2879.2	3285.5
20°	3273.8	3282.5	3256.2	3189.0	3113.0	2999.0	2917.2	2864.5	2870.4	2993.2	3463.8
22.5°	3624.5	3639.1	3569.0	3472.5	3355.6	3224.1	3107.2	3022.4	3025.3	3142.2	3647.9
25°	4001.6	4007.4	3963.6	3835.0	3677.1	3490.1	3335.1	3227.0	3224.1	3308.8	3884.7
27.5°	4387.4	4413.7	4326.0	4203.3	4057.1	3823.3	3618.7	3472.5	3449.1	3563.1	4179.9
30°	4785.0	4817.1	4732.3	4612.5	4431.3	4232.5	3989.9	3820.4	3805.7	3957.7	4574.5
32.5°	5185.4	5194.2	5126.9	5027.6	4863.9	4676.8	4481.0	4293.9	4279.3	4527.7	5086.0
35°	5512.8	5539.1	5492.3	5468.9	5349.1	5176.6	4986.6	4878.5	4916.5	5235.1	5749.5
37.5°	5907.4	5933.7	5881.1	5875.2	5837.2	5688.2	5556.6	5565.4	5603.4	6036.0	6448.1
40°	6477.4	6506.6	6372.1	6313.7	6313.7	6167.5	6123.7	6331.2	6380.9	6825.2	7176.0
42.5°	6959.7	7006.4	6927.5	6889.5	6775.5	6673.2	6725.8	7018.1	7102.9	7579.3	7810.3
45°	7193.5	7228.6	7322.1	7433.2	7322.1	7143.8	7342.6	7672.9	7792.7	8275.0	8444.6
47.5°	7319.2	7351.3	7459.5	7757.6	7833.6	7684.6	7965.2	8377.3	8459.2	8964.8	9049.6
50°	7336.7	7439.0	7579.3	7877.5	8225.3	8245.8	8590.7	9093.5	9189.9	9643.0	9581.6
52.5°	7193.5	7234.4	7523.8	8026.6	8412.4	8763.2	9271.8	9780.4	9850.5	10280.2	10052.2
55°	6959.7	7018.1	7307.5	7991.5	8593.6	9254.2	9964.5	10455.6	10534.5	10899.9	10487.7
57.5°	6749.2	6778.4	7088.3	7889.2	8774.9	9745.3	10581.3	11160.0	11212.6	11443.6	10809.3
60°	6515.4	6547.5	6857.4	7670.0	8909.3	10116.5	11224.3	11870.3	11917.1	12016.5	11183.4
62.5°	5910.3	5995.1	6383.8	7307.5	8874.2	10540.3	11911.2	12571.8	12630.3	12522.1	11478.6
65°	4799.6	4919.4	5395.9	6486.1	8546.9	10815.1	12472.4	13217.8	13317.2	12902.1	11557.5
67.5°	3726.8	3811.6	4194.5	5147.4	7398.1	10677.7	12834.9	13662.1	13691.3	12840.7	11119.1
68°	3533.9	3618.7	3984.1	4866.8	7079.5	10514.0	12826.1	13673.8	13738.1	12773.5	10949.6
70°	2703.8	2800.2	3148.1	3855.4	5705.7	9473.4	12291.2	13393.2	13384.4	11960.9	9897.3
72.5°	1689.5	1745.0	1984.7	2431.9	3773.6	7208.1	10432.2	11811.9	11835.2	9751.1	7591.0
75°	1072.7	1072.7	1061.0	1178.0	1935.0	4106.8	7754.7	9093.5	9111.0	6828.1	4785.0
77.5°	932.4	906.1	780.4	660.6	771.7	1596.0	4589.1	5872.3	5775.9	3677.1	2271.2
80°	786.3	742.4	640.1	532.0	496.9	499.8	1762.6	2981.5	2852.8	1324.1	754.1
82.5°	567.1	529.1	482.3	418.0	382.9	298.1	368.3	862.3	841.8	382.9	245.5
85°	306.9	277.7	271.8	274.8	230.9	184.1	154.9	190.0	190.0	166.6	140.3
87.5°	108.2	78.9	93.5	105.2	90.6	76.0	61.4	73.1	76.0	73.1	67.2
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°	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7	2896.7
2.5°	2908.4	2937.6	3007.8	3069.2	3113.0	3151.0	3171.5	3180.2	3200.7	3203.6	3197.8
5°	2931.8	3007.8	3113.0	3203.6	3253.3	3273.8	3279.6	3282.5	3273.8	3279.6	3273.8
7.5°	2993.2	3089.6	3238.7	3317.6	3326.4	3294.2	3297.1	3285.5	3297.1	3308.8	3308.8
10°	3086.7	3209.5	3349.8	3379.0	3341.0	3323.5	3358.5	3428.7	3452.1	3484.2	3484.2
12.5°	3209.5	3355.6	3455.0	3428.7	3393.6	3452.1	3554.4	3624.5	3647.9	3659.6	3650.8
15°	3349.8	3507.6	3557.3	3469.6	3533.9	3659.6	3694.7	3653.8	3595.3	3569.0	3583.6
17.5°	3528.1	3659.6	3630.4	3571.9	3718.1	3735.6	3621.6	3490.1	3396.5	3361.5	3384.8
20°	3715.1	3829.1	3694.7	3721.0	3811.6	3624.5	3408.2	3238.7	3156.8	3142.2	3165.6
22.5°	3913.9	3987.0	3759.0	3893.4	3759.0	3379.0	3118.8	3031.2	3010.7	3034.1	3054.5
25°	4139.0	4130.2	3870.1	3946.1	3563.1	3077.9	2923.0	2917.2	2917.2	2931.8	2961.0
27.5°	4393.3	4255.9	3981.1	3875.9	3224.1	2829.5	2800.2	2803.2	2794.4	2797.3	2811.9
30°	4688.5	4425.4	4103.9	3645.0	2844.1	2642.4	2630.7	2621.9	2601.5	2595.6	2601.5
32.5°	5059.7	4603.7	4229.6	3265.0	2510.9	2449.5	2443.6	2396.9	2347.2	2341.3	2361.8
35°	5530.3	4928.2	4293.9	2788.5	2236.1	2233.2	2212.7	2139.6	2075.3	2075.3	2060.7
37.5°	6068.2	5346.2	4320.2	2323.8	2008.1	2022.7	1964.3	1870.7	1821.0	1791.8	1800.6
40°	6617.7	5822.6	4317.3	1917.5	1809.3	1812.3	1768.4	1654.4	1531.7	1458.6	1476.1
42.5°	7146.7	6255.2	4241.3	1701.2	1648.6	1639.8	1604.7	1449.8	1347.5	1289.0	1292.0
45°	7570.6	6702.4	4124.4	1572.6	1502.4	1517.0	1438.1	1344.6	1251.0	1198.4	1195.5
47.5°	7994.4	7041.5	3937.3	1493.7	1394.3	1368.0	1335.8	1271.5	1201.4	1142.9	1145.8
50°	8380.2	7330.9	3761.9	1441.0	1294.9	1227.7	1233.5	1195.5	1134.1	1081.5	1078.6
52.5°	8652.1	7520.9	3665.4	1411.8	1175.0	1102.0	1122.4	1102.0	1043.5	1005.5	1002.6
55°	8923.9	7667.0	3697.6	1373.8	1043.5	985.1	1020.1	1014.3	982.1	970.4	973.4
57.5°	9143.1	7778.1	3811.6	1303.7	917.8	882.7	941.2	923.7	900.3	903.2	903.2
60°	9356.5	7921.3	3946.1	1142.9	809.7	812.6	868.1	836.0	821.4	847.7	850.6
62.5°	9578.7	8076.3	3835.0	909.1	716.1	736.6	800.9	774.6	780.4	818.4	830.1
65°	9552.4	8061.6	3124.7	745.4	634.3	675.2	771.7	762.9	765.8	780.4	786.3
67.5°	9014.5	7547.2	2148.4	634.3	575.8	625.5	748.3	713.2	716.1	707.4	710.3
68°	8833.3	7366.0	1894.1	616.8	564.1	613.8	736.6	704.4	707.4	698.6	695.7
70°	7845.3	6307.8	1198.4	543.7	523.2	581.7	678.1	666.4	663.5	657.7	657.7
72.5°	5980.5	4656.3	631.4	470.6	476.4	532.0	605.1	628.4	613.8	616.8	634.3
75°	3960.7	2800.2	438.5	403.4	418.0	456.0	537.8	584.6	570.0	578.8	570.0
77.5°	2095.8	1508.3	350.8	342.0	342.0	368.3	444.3	517.4	517.4	511.5	502.8
80°	686.9	532.0	280.6	268.9	274.8	289.4	356.6	423.8	432.6	420.9	415.1
82.5°	230.9	245.5	210.5	195.8	201.7	213.4	268.9	324.5	327.4	304.0	298.1
85°	143.2	163.7	131.5	128.6	128.6	131.5	163.7	178.3	163.7	146.2	152.0
87.5°	67.2	81.8	61.4	52.6	43.8	38.0	29.2	11.7	11.7	5.8	5.8
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)