

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: P1211077

Luminaire Tested: **ARCH4-160-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26474 lumens
Efficiency: N/A
Efficacy: 164.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.7
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

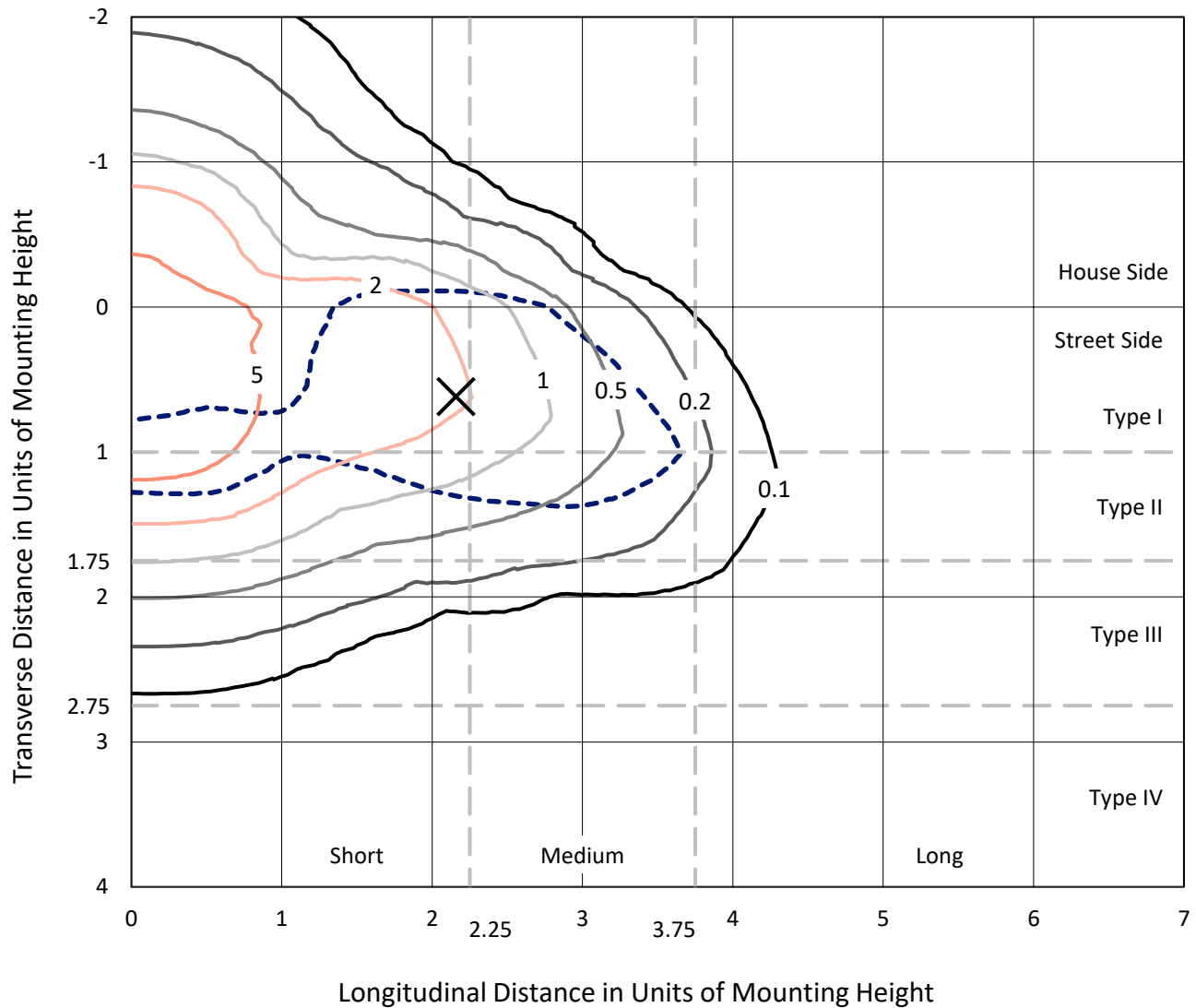


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

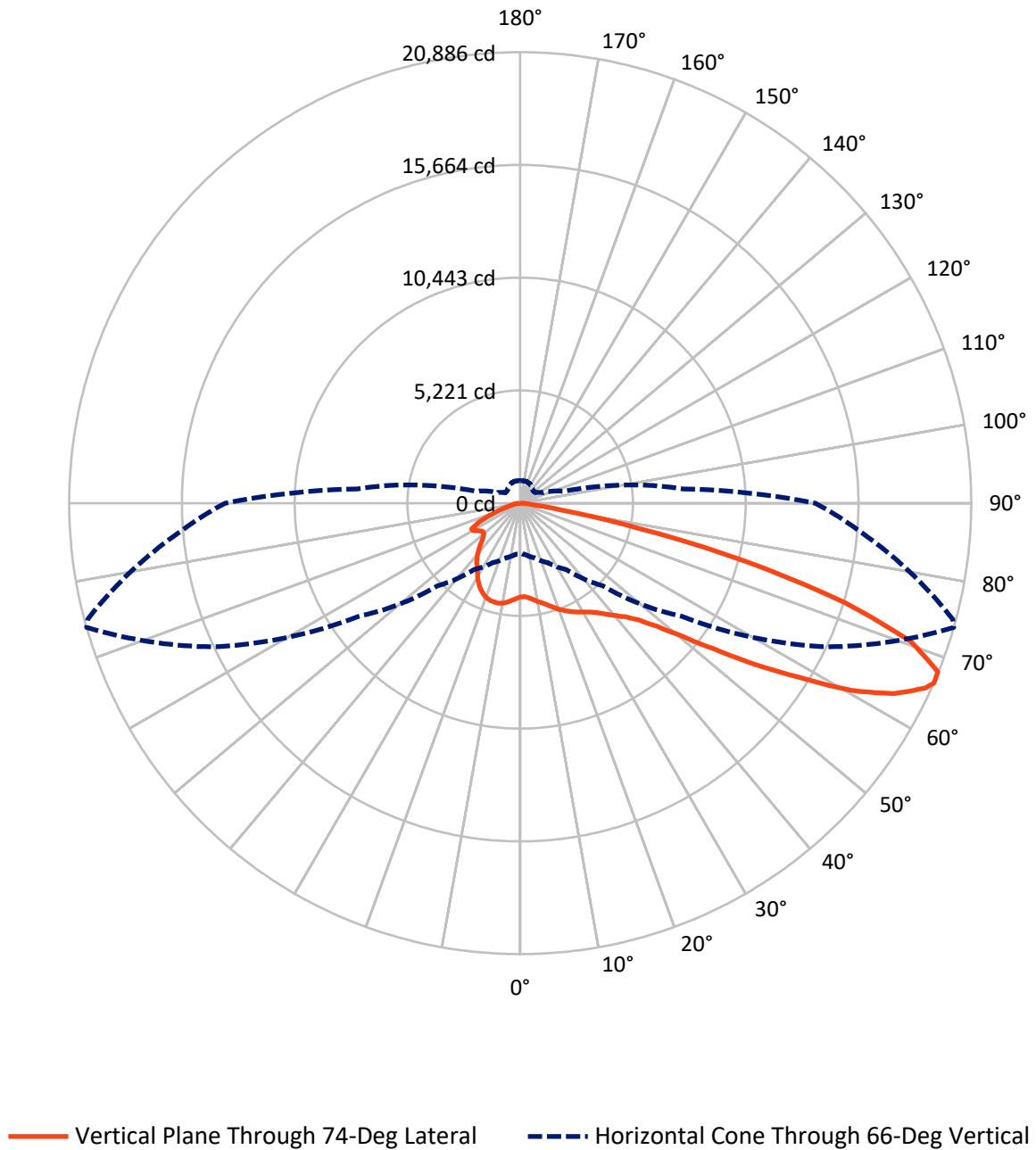


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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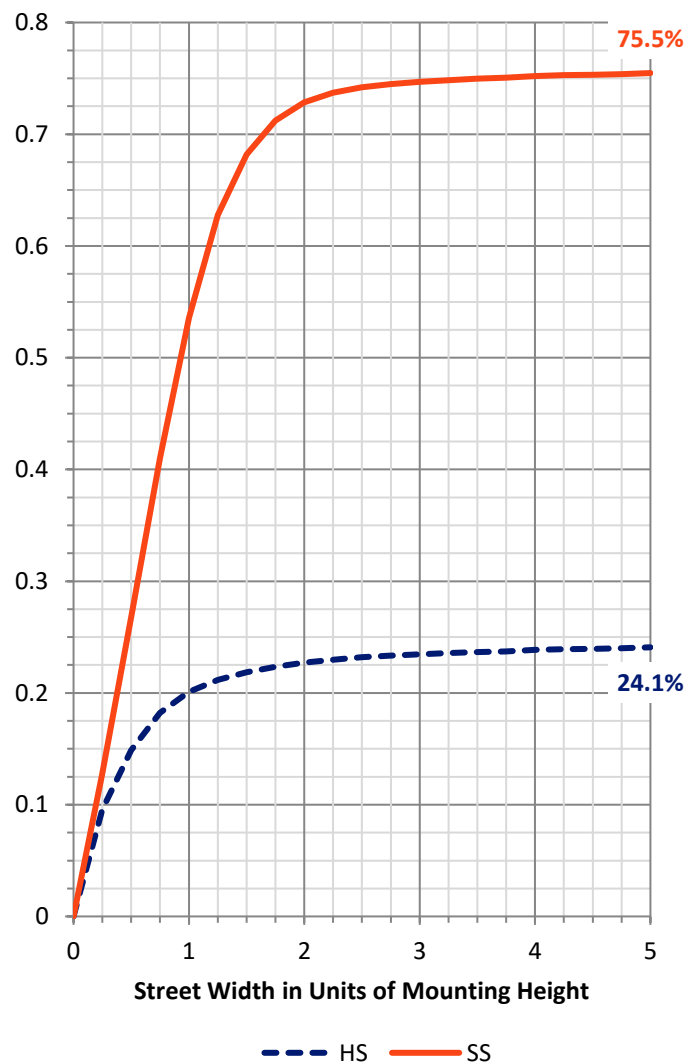
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6447.1	0.0	6447.1
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	20026.9	0.0	20026.9
	% Fixture	75.6	0.0	75.6
Total	Lumens	26474.0	0.0	26474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.0	1.6
10°-20°	1273.1	4.8
20°-30°	2389.0	9.0
30°-40°	3674.9	13.9
40°-50°	4943.0	18.7
50°-60°	5845.7	22.1
60°-70°	5407.6	20.4
70°-80°	2274.9	8.6
80°-90°	251.7	1.0
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°	26474.0	100.0
0°-180°	26474.0	100.0

Coefficient of Utilization



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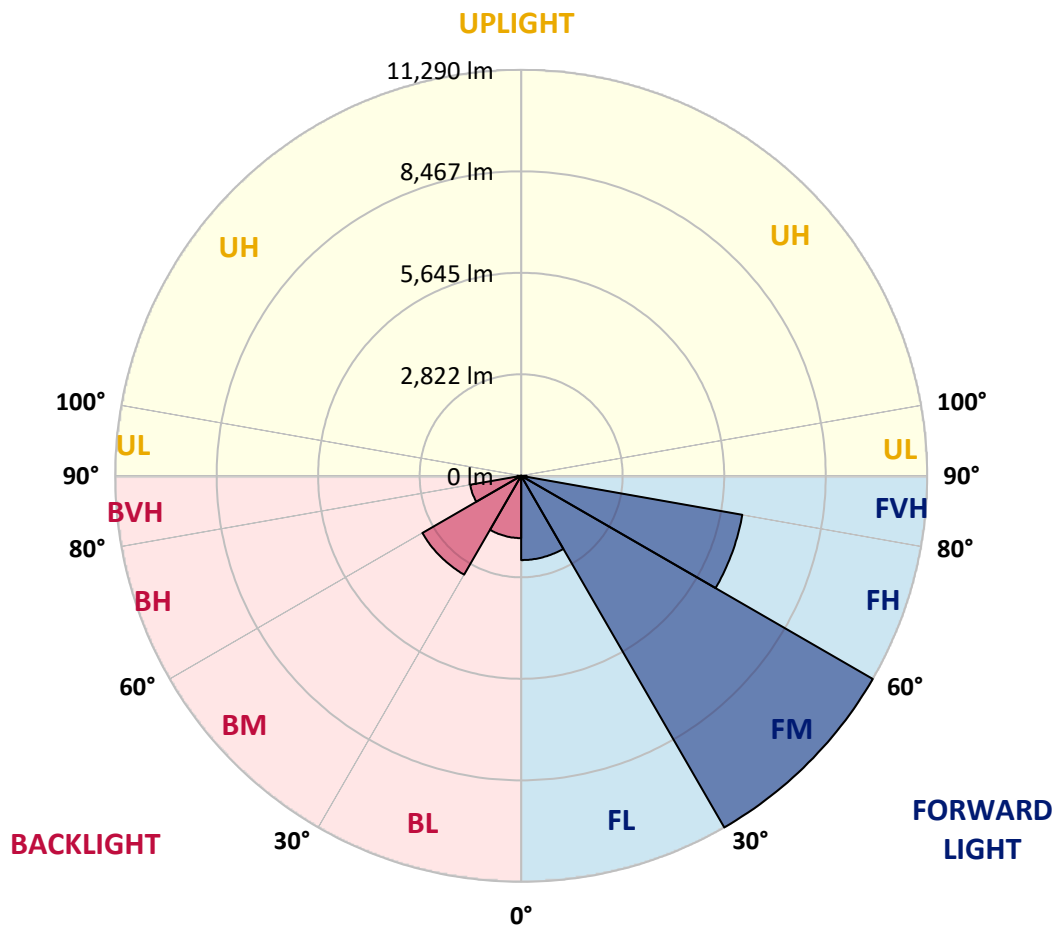
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2343.3	8.9			
FM	(30°-60°)	11289.7	42.6			
FH	(60°-80°)	6243.3	23.6			G3/7500
FVH	(80°-90°)	150.6	0.6			G2/225
BL	(0°-30°)	1732.8	6.5	B3/2500		
BM	(30°-60°)	3173.9	12.0	B3/5000		
BH	(60°-80°)	1439.2	5.4	B3/2500		G3/2500
BVH	(80°-90°)	101.1	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4340.0	4340.0	4340.0	4340.0	4340.0	4340.0	4340.0	4340.0	4340.0	4340.0	4340.0
2.5°	4326.3	4319.5	4333.2	4353.6	4363.8	4346.8	4340.0	4336.6	4336.6	4326.3	4343.4
5°	4121.9	4118.5	4149.2	4186.7	4258.2	4309.3	4377.4	4418.3	4404.7	4384.3	4397.9
7.5°	3856.2	3849.4	3886.9	3958.4	4057.2	4169.6	4336.6	4466.0	4517.1	4510.3	4506.9
10°	3958.4	3951.6	3948.2	3927.8	3961.8	4070.8	4244.6	4472.8	4646.6	4650.0	4653.4
12.5°	4312.7	4329.7	4312.7	4248.0	4173.0	4132.2	4234.4	4489.9	4755.6	4776.0	4861.2
15°	4796.4	4779.4	4745.4	4670.4	4554.6	4431.9	4357.0	4568.2	4912.3	4929.3	5116.7
17.5°	5222.3	5235.9	5215.5	5143.9	5007.7	4847.5	4619.3	4704.5	5079.2	5126.9	5389.2
20°	5685.6	5740.1	5712.8	5624.2	5511.8	5273.4	4987.2	4902.1	5263.1	5297.2	5671.9
22.5°	6220.4	6278.3	6227.2	6142.0	6050.1	5757.1	5389.2	5143.9	5416.4	5488.0	5944.5
25°	6860.8	6915.3	6867.6	6734.8	6619.0	6261.3	5821.8	5416.4	5566.3	5644.7	6165.9
27.5°	7368.4	7409.3	7453.6	7375.2	7198.1	6826.8	6271.5	5699.2	5716.2	5798.0	6370.3
30°	7821.5	7923.7	7961.2	7971.4	7821.5	7405.9	6731.4	5992.2	5845.7	5930.8	6574.7
32.5°	8441.5	8594.8	8533.5	8594.8	8506.2	7950.9	7208.3	6295.3	6012.6	6090.9	6768.9
35°	9347.6	9470.3	9310.2	9262.5	9119.4	8502.8	7668.2	6608.7	6234.0	6319.2	6952.8
37.5°	10321.9	10461.6	10229.9	10039.2	9766.6	9047.8	8063.3	7020.9	6540.6	6608.7	7123.1
40°	11173.5	11289.4	11088.4	10836.3	10379.8	9528.2	8404.0	7310.5	6847.2	6932.4	7320.7
42.5°	11960.5	12035.4	11810.6	11568.7	10958.9	9960.8	8771.9	7617.1	7204.9	7286.7	7480.8
45°	12757.6	12815.5	12502.1	12158.0	11442.7	10356.0	9177.3	8046.3	7729.5	7838.5	7739.7
47.5°	12900.7	12917.7	12863.2	12631.6	11824.2	10734.1	9678.1	8622.0	8530.0	8649.3	8186.0
50°	11909.4	12062.7	12399.9	12628.2	11977.5	11050.9	10178.8	9446.4	9633.8	9787.1	9112.6
52.5°	9984.7	10131.1	10911.2	11776.5	11609.6	11122.4	10717.1	10492.2	11190.6	11374.5	10373.0
55°	7954.3	8083.8	8908.2	10155.0	10420.7	10795.4	11292.8	11827.6	13176.6	13299.2	11756.1
57.5°	6550.8	6622.4	7211.7	8410.8	8836.6	9749.6	11602.8	13415.1	15196.7	15384.1	12958.6
60°	5372.2	5450.5	5890.0	6877.9	7443.4	8254.1	11357.5	14982.1	17608.6	17608.6	14501.8
62.5°	4043.6	4111.7	4520.5	5293.8	6244.2	6986.9	10574.0	16021.1	19427.7	19345.9	15619.1
65°	2776.4	2830.9	3127.2	3641.6	4496.7	5954.7	9504.3	16034.7	20633.6	20524.6	16096.0
66°	2330.1	2377.8	2629.9	3045.5	3764.3	5402.8	9126.2	15745.2	20885.7	20732.4	15895.1
67.5°	1839.5	1873.6	2040.5	2285.8	2759.3	4374.0	8530.0	14924.2	20861.8	20769.9	15384.1
70°	1314.9	1338.8	1461.4	1512.5	1631.7	2531.1	6775.7	13071.0	19189.2	19216.5	13374.2
72.5°	1018.6	1056.0	1131.0	1141.2	1113.9	1345.6	4111.7	10904.4	15697.5	15687.2	9926.7
75°	821.0	841.4	878.9	899.3	892.5	868.7	1740.8	8134.9	10805.6	10931.7	5559.5
77.5°	647.2	643.8	677.9	705.2	725.6	681.3	797.1	4769.2	5665.1	5505.0	2088.2
80°	476.9	476.9	524.6	534.8	565.5	572.3	531.4	1839.5	1945.2	1768.0	541.6
82.5°	313.4	313.4	364.5	371.3	402.0	446.3	384.9	551.9	538.2	511.0	245.3
85°	170.3	163.5	180.5	204.4	221.4	262.3	231.6	275.9	282.7	279.3	163.5
87.5°	34.1	30.7	47.7	54.5	61.3	81.8	74.9	112.4	156.7	153.3	71.5
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°	4340.0	4340.0	4340.0	4340.0	4340.0	4340.0	4340.0	4340.0	4340.0	4340.0	4340.0
2.5°	4367.2	4363.8	4401.3	4445.6	4496.7	4527.3	4541.0	4564.8	4547.8	4554.6	4575.0
5°	4431.9	4442.2	4496.7	4554.6	4578.4	4561.4	4523.9	4510.3	4479.6	4472.8	4466.0
7.5°	4527.3	4544.4	4598.9	4612.5	4541.0	4421.7	4336.6	4288.9	4237.8	4224.1	4217.3
10°	4684.0	4694.3	4707.9	4568.2	4391.1	4231.0	4125.4	4081.1	4047.0	4019.8	4026.6
12.5°	4881.6	4874.8	4769.2	4479.6	4227.6	4064.0	3992.5	3965.2	3941.4	3924.4	3921.0
15°	5130.3	5082.6	4779.4	4357.0	4074.3	3938.0	3886.9	3876.7	3849.4	3849.4	3846.0
17.5°	5382.4	5259.7	4772.6	4227.6	3927.8	3852.8	3822.2	3815.4	3808.5	3805.1	3815.4
20°	5634.5	5416.4	4718.1	4067.4	3825.6	3781.3	3774.5	3777.9	3771.1	3781.3	3774.5
22.5°	5855.9	5518.6	4615.9	3897.1	3754.0	3750.6	3733.6	3740.4	3764.3	3767.7	3777.9
25°	6026.2	5556.1	4466.0	3740.4	3702.9	3696.1	3716.6	3743.8	3764.3	3767.7	3784.7
27.5°	6165.9	5535.7	4278.7	3617.8	3614.4	3651.8	3713.2	3723.4	3726.8	3726.8	3713.2
30°	6271.5	5491.4	4040.2	3481.5	3498.5	3590.5	3648.4	3648.4	3621.2	3614.4	3634.8
32.5°	6295.3	5433.5	3781.3	3341.8	3369.1	3478.1	3549.6	3525.8	3495.1	3495.1	3508.8
35°	6315.8	5355.1	3573.5	3151.1	3192.0	3321.4	3389.5	3341.8	3307.8	3297.6	3294.2
37.5°	6309.0	5324.5	3386.1	2909.2	2963.7	3089.8	3134.0	3089.8	3038.7	3014.8	3045.5
40°	6315.8	5304.0	3151.1	2643.5	2698.0	2772.9	2830.9	2796.8	2749.1	2687.8	2718.4
42.5°	6356.7	5331.3	2892.2	2384.6	2384.6	2425.5	2524.3	2500.4	2384.6	2360.8	2388.0
45°	6574.7	5477.8	2633.3	2125.7	2088.2	2115.5	2217.7	2115.5	2043.9	2043.9	2067.8
47.5°	7102.7	5750.3	2405.0	1897.5	1808.9	1863.4	1890.6	1795.3	1740.8	1727.1	1751.0
50°	8179.2	6295.3	2268.8	1710.1	1601.1	1642.0	1624.9	1621.5	1567.0	1573.8	1587.5
52.5°	9814.3	7358.2	2227.9	1618.1	1481.9	1492.1	1475.0	1481.9	1471.6	1505.7	1515.9
55°	11596.0	8479.0	2279.0	1631.7	1400.1	1328.6	1335.4	1369.4	1410.3	1464.8	1475.0
57.5°	12927.9	9041.0	2411.9	1723.7	1297.9	1188.9	1205.9	1270.7	1349.0	1393.3	1417.1
60°	13919.2	8972.9	2606.0	1747.6	1175.3	1062.8	1093.5	1188.9	1257.0	1294.5	1318.3
62.5°	14242.9	8547.1	2653.7	1573.8	1015.2	943.6	1018.6	1117.4	1148.0	1188.9	1205.9
65°	13977.2	7944.1	2306.2	1277.5	892.5	855.0	964.1	1039.0	1079.9	1100.3	1103.7
66°	13663.7	7583.0	2118.9	1161.6	848.2	827.8	943.6	1004.9	1045.8	1042.4	1045.8
67.5°	12975.6	6826.8	1815.7	998.1	783.5	786.9	909.6	950.4	964.1	953.8	953.8
70°	10635.3	4806.7	1301.3	756.3	688.1	735.8	817.6	827.8	858.5	844.8	844.8
72.5°	6557.6	2360.8	872.1	579.1	613.2	688.1	684.7	718.8	790.3	810.8	824.4
75°	3222.6	957.2	575.7	490.5	548.5	575.7	568.9	654.1	756.3	844.8	875.5
77.5°	1223.0	476.9	402.0	429.2	442.9	432.6	453.1	592.7	756.3	916.4	947.0
80°	378.1	330.4	316.8	354.3	333.8	316.8	340.7	490.5	640.4	694.9	694.9
82.5°	228.2	258.9	245.3	241.9	224.8	228.2	245.3	350.9	494.0	517.8	517.8
85°	160.1	170.3	139.7	132.9	129.4	126.0	126.0	204.4	293.0	289.6	299.8
87.5°	61.3	68.1	51.1	51.1	47.7	34.1	27.3	34.1	34.1	23.8	17.0
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)