

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: P841362

Luminaire Tested: **ARCH4-170-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-170-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23936 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

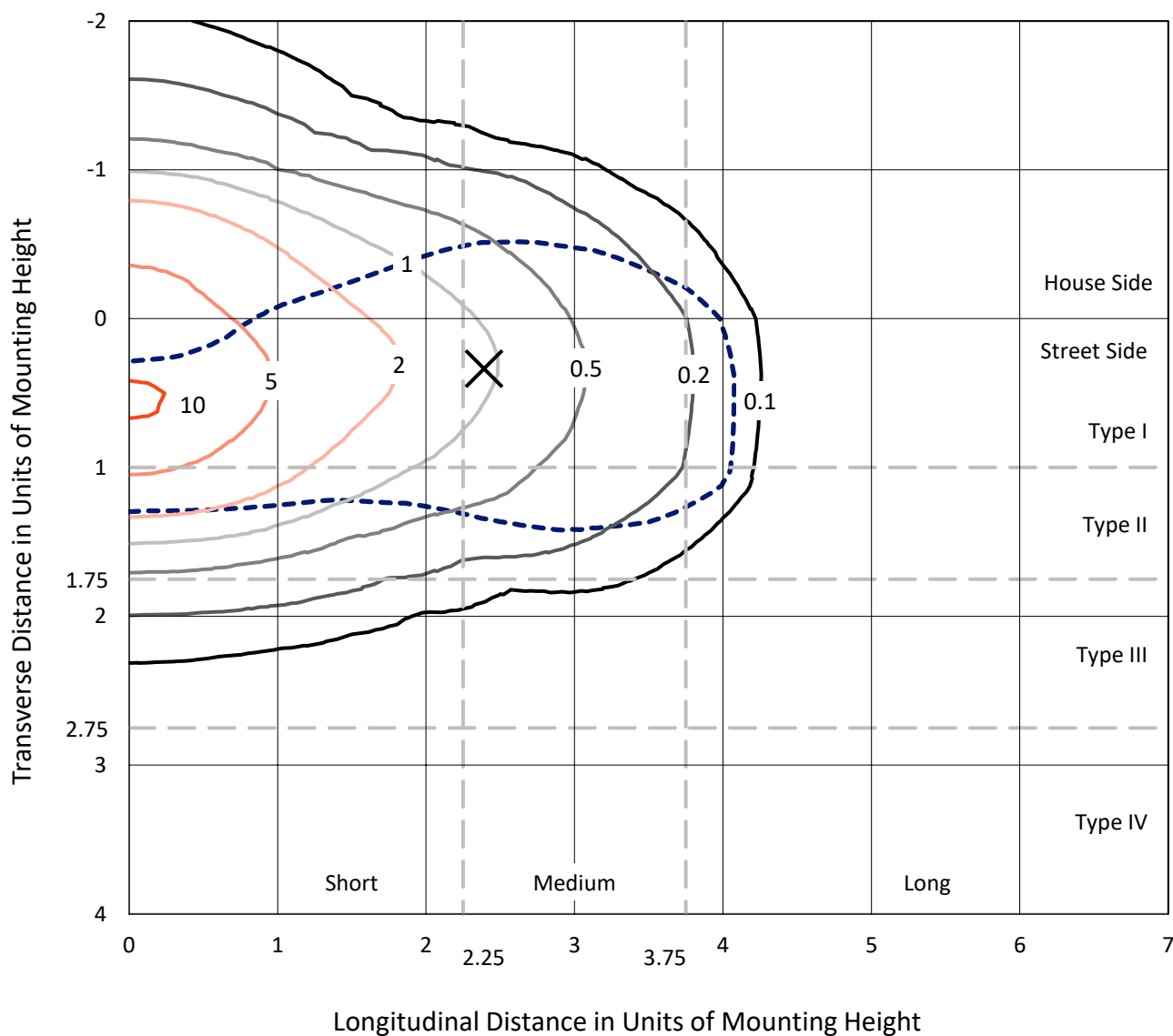
Input Watts (W): 169.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

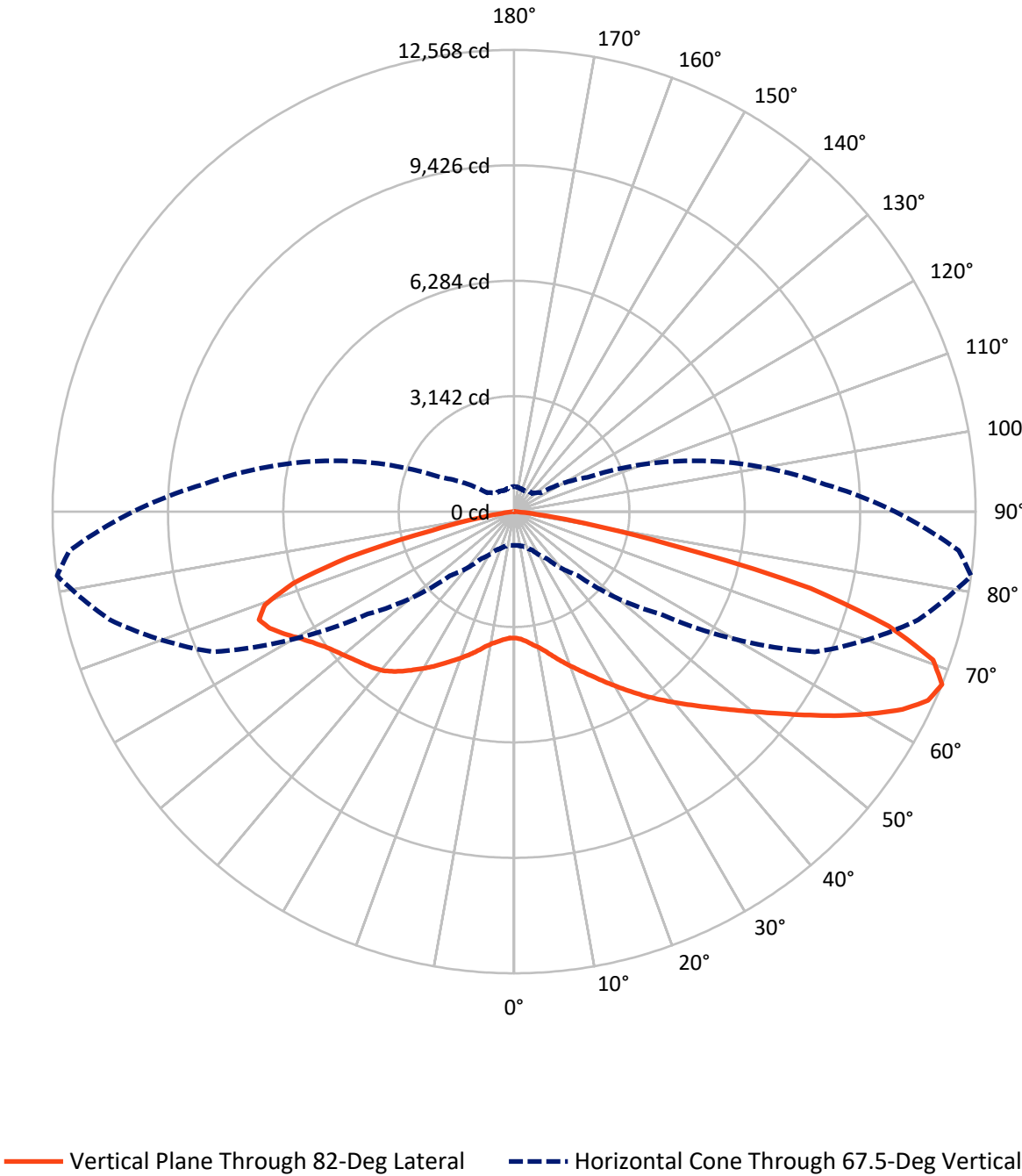
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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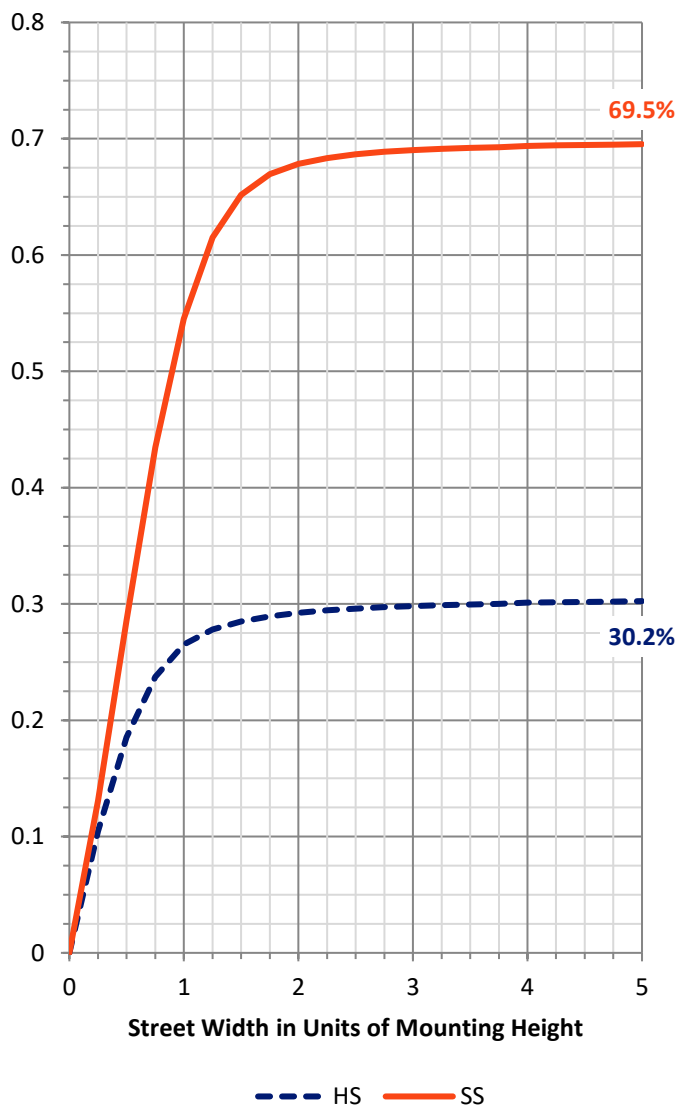
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7289.5	0.0	7289.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	16646.5	0.0	16646.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	23936.0	0.0	23936.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.6	1.5
10°-20°	1280.8	5.4
20°-30°	2574.2	10.8
30°-40°	4043.7	16.9
40°-50°	4926.1	20.6
50°-60°	4654.5	19.4
60°-70°	3843.5	16.1
70°-80°	2093.0	8.7
80°-90°	164.6	0.7
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°	23936.0	100.0
0°-180°	23936.0	100.0

Coefficient of Utilization



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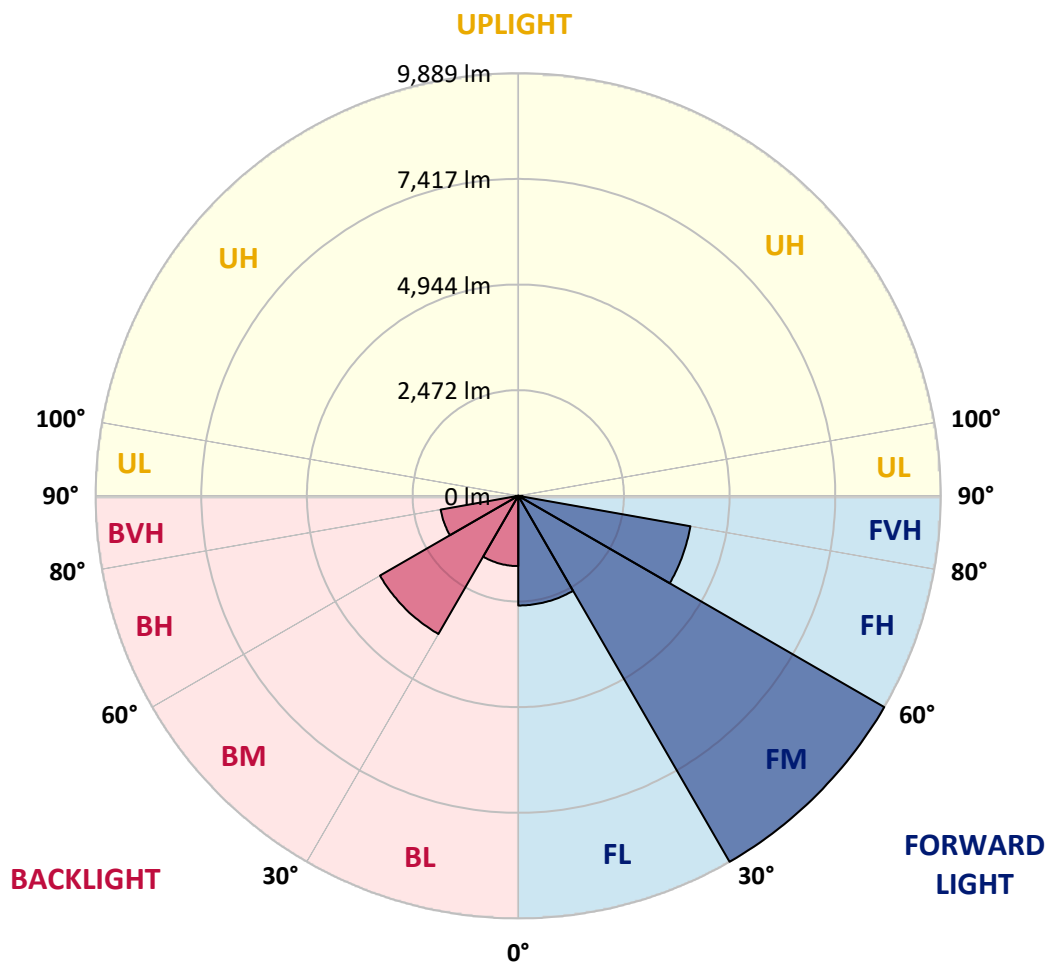
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2566.8	10.7			
FM	(30°-60°)	9889.0	41.3			
FH	(60°-80°)	4091.5	17.1			G2/5000
FVH	(80°-90°)	99.2	0.4			G1/100
BL	(0°-30°)	1643.8	6.9	B3/2500		
BM	(30°-60°)	3735.3	15.6	B3/5000		
BH	(60°-80°)	1845.0	7.7	B3/2500		G3/2500
BVH	(80°-90°)	65.4	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3440.8	3440.8	3440.8	3440.8	3440.8	3440.8	3440.8	3440.8	3440.8	3440.8	3440.8
2.5°	3597.2	3597.2	3625.0	3625.0	3600.7	3562.4	3552.0	3510.3	3472.1	3472.1	3475.5
5°	3941.3	3937.8	3958.6	3930.8	3871.8	3795.3	3743.2	3652.8	3576.3	3552.0	3548.5
7.5°	4361.8	4358.3	4368.8	4323.6	4212.4	4087.2	3983.0	3837.0	3711.9	3659.7	3645.8
10°	4831.0	4827.5	4817.1	4740.6	4591.2	4396.6	4240.2	4038.6	3850.9	3767.5	3750.1
12.5°	5369.7	5362.8	5338.4	5227.2	5022.2	4771.9	4546.0	4285.3	4035.1	3920.4	3882.2
15°	5971.0	5960.6	5915.4	5779.8	5505.3	5189.0	4897.0	4563.4	4257.5	4108.1	4056.0
17.5°	6603.5	6603.5	6534.0	6332.4	6026.6	5633.9	5272.4	4848.4	4490.4	4306.2	4243.6
20°	7246.5	7243.0	7156.1	6912.9	6551.4	6099.6	5640.8	5175.1	4730.2	4507.8	4431.3
22.5°	7924.2	7917.3	7809.5	7531.5	7100.5	6589.6	6054.4	5498.3	4994.4	4726.7	4629.4
25°	8702.8	8692.3	8560.3	8219.7	7708.8	7131.8	6520.1	5877.1	5296.7	4970.0	4855.3
27.5°	9529.9	9516.0	9359.6	8963.4	8403.9	7708.8	7034.5	6315.1	5630.4	5241.1	5112.5
30°	10266.8	10256.3	10086.0	9679.4	9036.4	8282.2	7524.6	6753.0	5981.4	5529.6	5369.7
32.5°	10822.8	10822.8	10669.9	10270.2	9602.9	8831.4	8018.1	7166.6	6346.3	5838.9	5651.2
35°	11160.0	11170.4	11038.3	10718.6	10089.5	9349.2	8529.0	7653.1	6735.6	6169.1	5967.5
37.5°	11208.6	11243.4	11166.9	10951.4	10426.6	9780.2	9029.5	8122.3	7138.8	6502.7	6276.8
40°	10982.7	11007.0	11010.5	10927.1	10565.7	10089.5	9470.9	8619.3	7566.3	6853.8	6593.1
42.5°	10530.9	10548.3	10579.6	10603.9	10464.9	10225.0	9808.0	9081.6	8021.6	7211.8	6905.9
45°	9947.0	9943.5	9995.7	10099.9	10093.0	10148.6	9995.7	9502.1	8494.2	7618.4	7253.5
47.5°	9074.6	9057.3	9241.5	9477.8	9596.0	9856.6	9999.1	9832.3	9008.6	8066.7	7649.7
50°	7708.8	7691.4	8094.5	8650.6	8998.2	9394.4	9808.0	10030.4	9547.3	8570.7	8080.6
52.5°	6047.4	6030.1	6541.0	7514.1	8271.8	8848.7	9422.2	10075.6	10058.2	9133.7	8567.2
55°	4497.4	4483.5	4980.5	6033.5	7260.4	8216.2	8949.5	9957.4	10537.8	9780.2	9158.1
57.5°	3169.7	3162.7	3593.7	4466.1	5960.6	7444.6	8494.2	9728.0	10979.2	10482.2	9825.4
60°	2224.3	2213.9	2526.7	3201.0	4507.8	6280.3	8042.4	9422.2	11309.4	11173.9	10534.4
62.5°	1498.0	1491.0	1713.4	2276.5	3201.0	4834.5	7357.7	9217.1	11497.1	11869.0	11250.3
65°	1136.5	1133.0	1233.8	1543.1	2266.1	3472.1	6269.9	9192.8	11521.4	12390.3	11858.6
67.5°	917.5	921.0	976.6	1153.9	1567.5	2467.6	4862.3	9039.9	11392.8	12567.6	12154.0
70°	750.7	750.7	775.0	893.2	1157.4	1664.8	3395.6	8344.8	11034.8	12105.3	11802.9
72.5°	573.5	576.9	653.4	722.9	872.4	1167.8	2175.7	6905.9	10190.3	10673.4	10444.0
75°	455.3	451.8	497.0	594.3	677.7	834.1	1334.6	4952.6	8671.5	8341.3	8195.3
77.5°	326.7	323.2	358.0	441.4	514.4	590.8	795.9	2498.9	4716.3	4334.0	4226.3
80°	222.4	215.5	246.8	305.8	340.6	347.6	389.3	959.2	2057.5	1939.4	1915.0
82.5°	114.7	114.7	132.1	173.8	177.3	180.7	173.8	309.3	681.2	636.0	608.2
85°	45.2	45.2	48.7	59.1	59.1	62.6	62.6	79.9	73.0	69.5	66.0
87.5°	3.5	3.5	7.0	7.0	10.4	10.4	10.4	13.9	17.4	17.4	17.4
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°	3440.8	3440.8	3440.8	3440.8	3440.8	3440.8	3440.8	3440.8	3440.8	3440.8	3440.8
2.5°	3468.6	3454.7	3409.5	3399.1	3392.1	3381.7	3385.2	3360.9	3350.4	3353.9	3340.0
5°	3531.2	3506.8	3451.2	3426.9	3419.9	3409.5	3419.9	3402.6	3385.2	3392.1	3385.2
7.5°	3618.0	3583.3	3513.8	3489.4	3486.0	3475.5	3489.4	3475.5	3461.6	3468.6	3454.7
10°	3708.4	3663.2	3586.8	3562.4	3562.4	3559.0	3572.9	3552.0	3538.1	3541.6	3534.6
12.5°	3840.5	3781.4	3698.0	3677.1	3666.7	3677.1	3680.6	3652.8	3628.5	3631.9	3621.5
15°	4000.4	3934.3	3844.0	3812.7	3805.7	3802.2	3788.3	3753.6	3722.3	3718.8	3708.4
17.5°	4174.1	4090.7	3983.0	3951.7	3920.4	3910.0	3875.2	3830.0	3781.4	3781.4	3767.5
20°	4341.0	4247.1	4118.5	4073.3	4028.2	3986.4	3927.4	3854.4	3791.8	3781.4	3767.5
22.5°	4521.7	4410.5	4261.0	4195.0	4115.0	4031.6	3930.8	3833.5	3753.6	3736.2	3725.8
25°	4723.3	4584.2	4407.0	4309.7	4181.1	4052.5	3903.0	3777.9	3684.1	3656.3	3649.3
27.5°	4945.7	4778.9	4563.4	4420.9	4233.2	4031.6	3840.5	3691.0	3576.3	3541.6	3531.2
30°	5171.6	4973.5	4705.9	4497.4	4233.2	3965.6	3725.8	3552.0	3419.9	3371.3	3364.3
32.5°	5397.5	5175.1	4834.5	4539.1	4191.5	3854.4	3576.3	3371.3	3221.8	3162.7	3176.6
35°	5668.6	5397.5	4952.6	4556.4	4122.0	3718.8	3406.0	3166.2	3013.3	2961.2	2971.6
37.5°	5950.1	5620.0	5046.5	4542.5	4024.7	3565.9	3214.9	2982.0	2790.9	2700.5	2710.9
40°	6193.4	5821.5	5112.5	4493.9	3899.6	3392.1	3027.2	2721.4	2457.2	2370.3	2359.9
42.5°	6422.8	5971.0	5147.3	4420.9	3757.1	3190.5	2759.6	2366.8	2102.7	1995.0	1998.4
45°	6662.6	6117.0	5133.4	4323.6	3579.8	2954.2	2415.5	2019.3	1786.4	1689.1	1692.6
47.5°	6937.2	6273.4	5119.5	4219.3	3364.3	2648.4	2085.3	1713.4	1511.9	1442.4	1435.4
50°	7229.1	6447.1	5102.1	4090.7	3124.5	2307.8	1758.6	1428.4	1258.1	1213.0	1202.5
52.5°	7559.3	6634.8	5091.7	3937.8	2836.0	1946.3	1466.7	1178.2	1063.5	1032.2	1028.8
55°	7955.5	6853.8	5105.6	3753.6	2488.5	1605.7	1219.9	1014.9	938.4	921.0	917.5
57.5°	8438.6	7135.3	5147.3	3538.1	2123.6	1310.3	1039.2	914.1	865.4	851.5	851.5
60°	8963.4	7455.0	5223.7	3294.8	1758.6	1080.9	921.0	834.1	813.3	830.7	830.7
62.5°	9529.9	7830.4	5359.3	2999.4	1418.0	914.1	827.2	768.1	754.2	788.9	792.4
65°	10054.7	8195.3	5446.2	2644.9	1126.1	792.4	754.2	702.1	709.0	743.8	740.3
67.5°	10378.0	8497.7	5324.5	2200.0	893.2	702.1	677.7	632.5	649.9	677.7	681.2
70°	10179.9	8327.4	4723.3	1661.3	698.6	611.7	594.3	566.5	580.4	615.2	629.1
72.5°	9210.2	7458.5	3673.6	1122.6	563.0	514.4	521.3	507.4	524.8	556.1	587.4
75°	7475.9	5637.3	2464.2	719.4	444.9	437.9	448.3	437.9	444.9	476.1	493.5
77.5°	3903.0	2749.2	1226.9	448.3	330.2	340.6	358.0	361.5	382.3	389.3	396.2
80°	1821.2	1237.3	510.9	250.2	219.0	239.8	274.6	278.0	285.0	295.4	298.9
82.5°	594.3	371.9	236.3	135.5	125.1	135.5	177.3	212.0	215.5	236.3	236.3
85°	62.6	38.2	52.1	55.6	48.7	59.1	79.9	76.5	34.8	20.9	20.9
87.5°	17.4	13.9	17.4	17.4	13.9	13.9	10.4	3.5	0.0	0.0	0.0
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)