

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: P836460

Luminaire Tested: **ARCH3-190-727-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23922 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.4
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

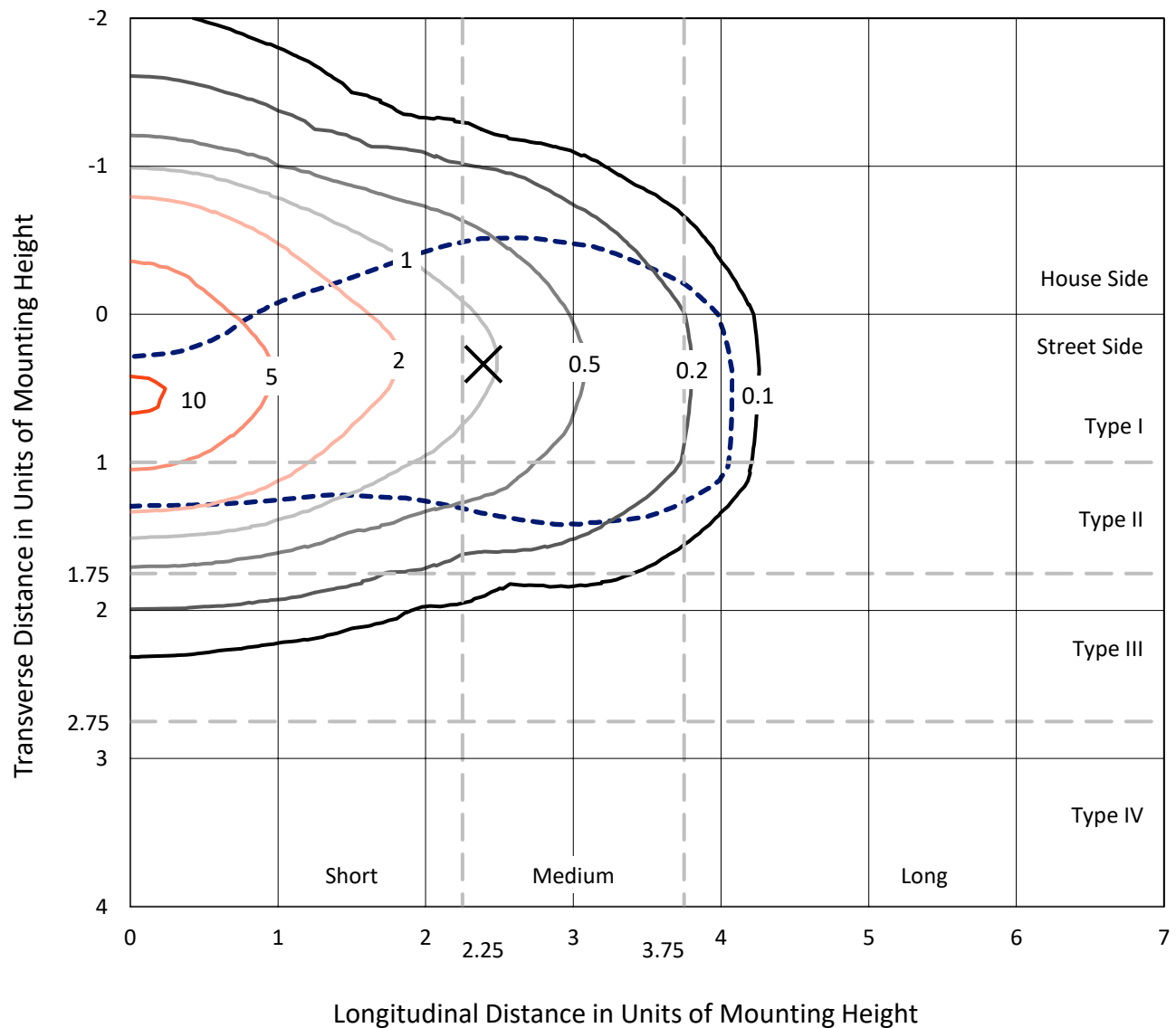


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Iso-Footcandle Lines of Horizontal Illumination

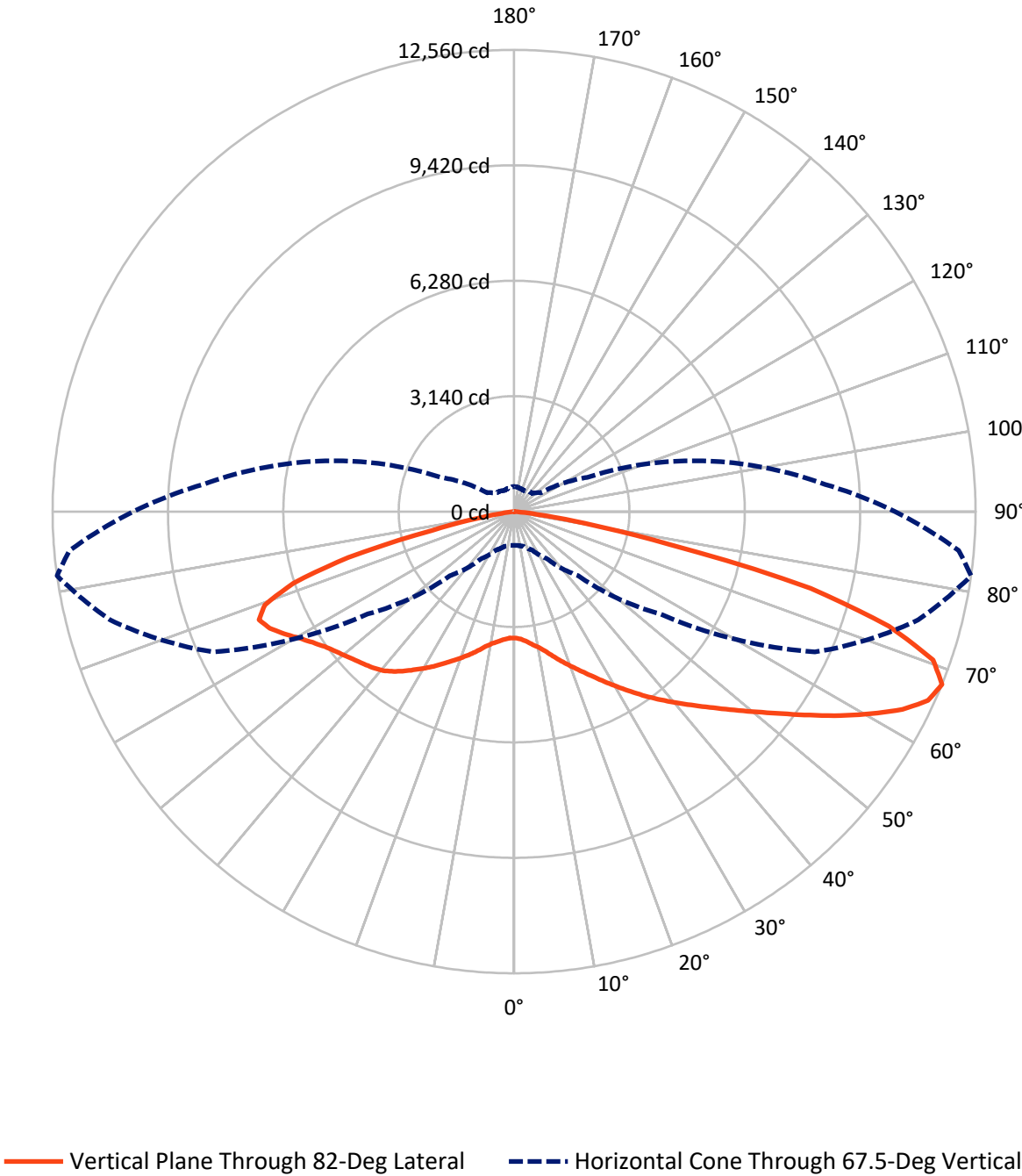
× Max cd
- - - 1/2 Max cd



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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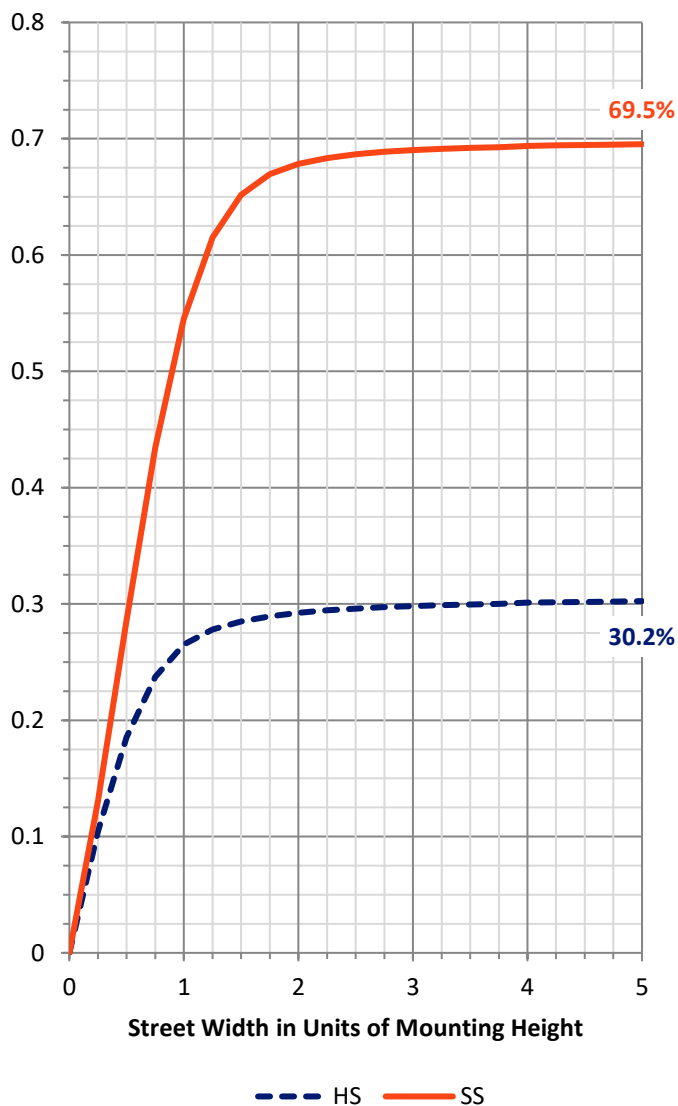
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7285.2	0.0	7285.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	16636.8	0.0	16636.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	23922.0	0.0	23922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.4	1.5
10°-20°	1280.1	5.4
20°-30°	2572.7	10.8
30°-40°	4041.3	16.9
40°-50°	4923.2	20.6
50°-60°	4651.8	19.4
60°-70°	3841.3	16.1
70°-80°	2091.8	8.7
80°-90°	164.5	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°	23922.0	100.0
0°-180°	23922.0	100.0

Coefficient of Utilization



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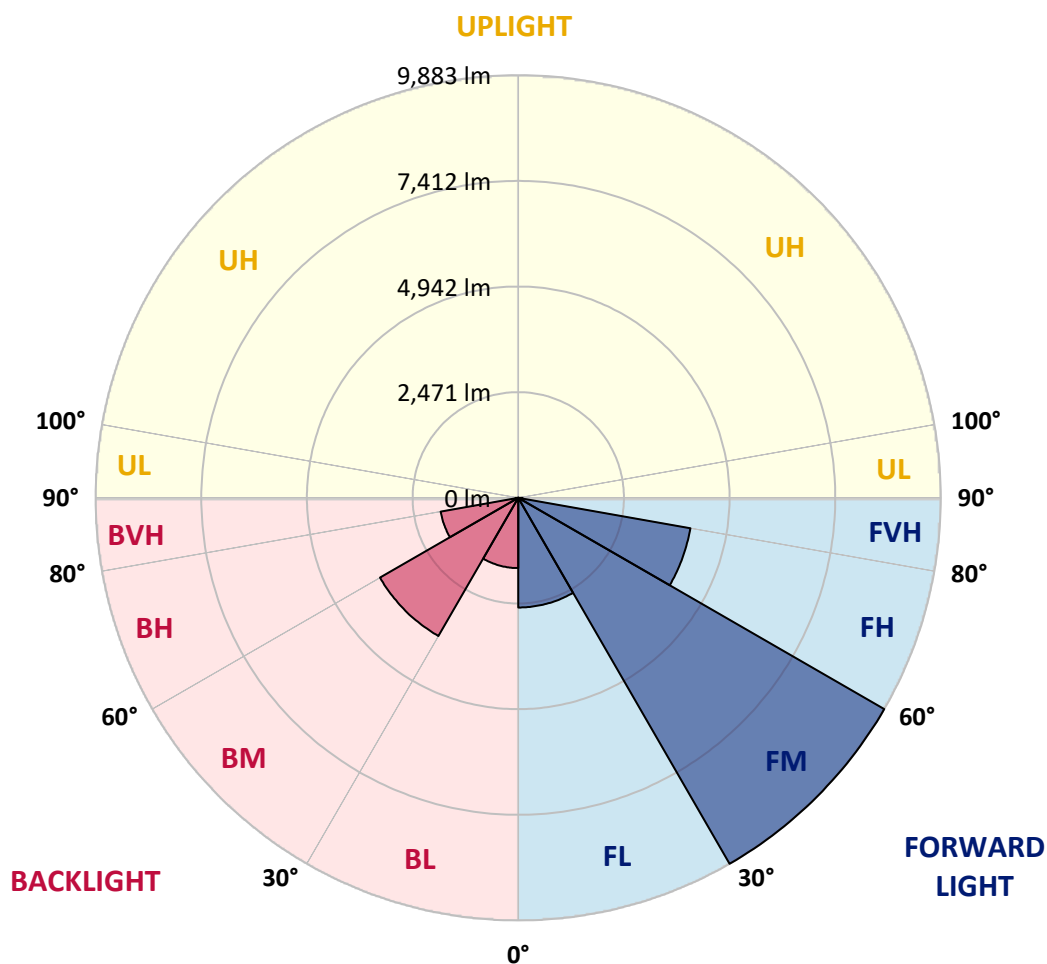
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2565.3	10.7			
FM	(30°-60°)	9883.2	41.3			
FH	(60°-80°)	4089.1	17.1			G2/5000
FVH	(80°-90°)	99.1	0.4			G1/100
BL	(0°-30°)	1642.9	6.9	B3/2500		
BM	(30°-60°)	3733.1	15.6	B3/5000		
BH	(60°-80°)	1843.9	7.7	B3/2500		G3/2500
BVH	(80°-90°)	65.3	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°	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8
2.5°	3595.1	3595.1	3622.9	3622.9	3598.6	3560.3	3549.9	3508.2	3470.0	3470.0	3473.5
5°	3939.0	3935.5	3956.3	3928.5	3869.5	3793.1	3741.0	3650.7	3574.2	3549.9	3546.5
7.5°	4359.3	4355.8	4366.2	4321.0	4209.9	4084.8	3980.6	3834.8	3709.7	3657.6	3643.7
10°	4828.2	4824.7	4814.3	4737.9	4588.5	4394.0	4237.7	4036.2	3848.6	3765.3	3747.9
12.5°	5366.6	5359.6	5335.3	5224.2	5019.2	4769.1	4543.4	4282.8	4032.7	3918.1	3879.9
15°	5967.5	5957.1	5911.9	5776.4	5502.0	5186.0	4894.2	4560.7	4255.1	4105.7	4053.6
17.5°	6599.7	6599.7	6530.2	6328.7	6023.1	5630.6	5269.3	4845.5	4487.8	4303.7	4241.2
20°	7242.3	7238.8	7152.0	6908.8	6547.6	6096.0	5637.5	5172.1	4727.4	4505.1	4428.7
22.5°	7919.6	7912.7	7805.0	7527.1	7096.4	6585.8	6050.9	5495.1	4991.4	4724.0	4626.7
25°	8697.7	8687.2	8555.3	8214.9	7704.2	7127.6	6516.3	5873.7	5293.6	4967.1	4852.5
27.5°	9524.4	9510.5	9354.2	8958.2	8398.9	7704.2	7030.4	6311.4	5627.1	5238.1	5109.5
30°	10260.7	10250.3	10080.1	9673.7	9031.1	8277.4	7520.1	6749.0	5977.9	5526.4	5366.6
32.5°	10816.5	10816.5	10663.7	10264.2	9597.3	8826.2	8013.4	7162.4	6342.6	5835.5	5647.9
35°	11153.4	11163.9	11031.9	10712.3	10083.6	9343.7	8524.0	7648.7	6731.7	6165.5	5964.0
37.5°	11202.1	11236.8	11160.4	10945.0	10420.5	9774.5	9024.2	8117.6	7134.6	6498.9	6273.2
40°	10976.3	11000.6	11004.1	10920.7	10559.5	10083.6	9465.3	8614.3	7561.8	6849.8	6589.2
42.5°	10524.7	10542.1	10573.4	10597.7	10458.7	10219.1	9802.2	9076.3	8016.9	7207.5	6901.9
45°	9941.2	9937.7	9989.8	10094.0	10087.1	10142.6	9989.8	9496.6	8489.3	7613.9	7249.2
47.5°	9069.3	9052.0	9236.1	9472.3	9590.4	9850.9	9993.3	9826.6	9003.3	8062.0	7645.2
50°	7704.2	7686.9	8089.8	8645.6	8992.9	9388.9	9802.2	10024.6	9541.7	8565.7	8075.9
52.5°	6043.9	6026.5	6537.1	7509.7	8267.0	8843.6	9416.7	10069.7	10052.3	9128.4	8562.2
55°	4494.7	4480.8	4977.5	6030.0	7256.2	8211.4	8944.3	9951.6	10531.7	9774.5	9152.7
57.5°	3167.8	3160.9	3591.6	4463.5	5957.1	7440.3	8489.3	9722.4	10972.8	10476.1	9819.6
60°	2223.0	2212.6	2525.2	3199.1	4505.1	6276.6	8037.7	9416.7	11302.8	11167.3	10528.2
62.5°	1497.1	1490.1	1712.4	2275.1	3199.1	4831.7	7353.4	9211.7	11490.4	11862.0	11243.8
65°	1135.8	1132.4	1233.1	1542.2	2264.7	3470.0	6266.2	9187.4	11514.7	12383.1	11851.6
67.5°	917.0	920.5	976.1	1153.2	1566.6	2466.2	4859.4	9034.6	11386.2	12560.2	12146.9
70°	750.3	750.3	774.6	892.7	1156.7	1663.8	3393.6	8339.9	11028.4	12098.2	11796.0
72.5°	573.1	576.6	653.0	722.5	871.9	1167.1	2174.4	6901.9	10184.3	10667.1	10437.9
75°	455.0	451.6	496.7	594.0	677.3	833.6	1333.8	4949.8	8666.4	8336.4	8190.5
77.5°	326.5	323.0	357.8	441.1	514.1	590.5	795.4	2497.5	4713.6	4331.5	4223.8
80°	222.3	215.4	246.6	305.7	340.4	347.4	389.0	958.7	2056.3	1938.2	1913.9
82.5°	114.6	114.6	132.0	173.7	177.1	180.6	173.7	309.1	680.8	635.7	607.9
85°	45.2	45.2	48.6	59.0	59.0	62.5	62.5	79.9	72.9	69.5	66.0
87.5°	3.5	3.5	6.9	6.9	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°	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8
2.5°	3466.6	3452.7	3407.5	3397.1	3390.1	3379.7	3383.2	3358.9	3348.5	3351.9	3338.0
5°	3529.1	3504.8	3449.2	3424.9	3417.9	3407.5	3417.9	3400.6	3383.2	3390.1	3383.2
7.5°	3615.9	3581.2	3511.7	3487.4	3483.9	3473.5	3487.4	3473.5	3459.6	3466.6	3452.7
10°	3706.2	3661.1	3584.7	3560.3	3560.3	3556.9	3570.8	3549.9	3536.0	3539.5	3532.6
12.5°	3838.2	3779.2	3695.8	3675.0	3664.6	3675.0	3678.4	3650.7	3626.3	3629.8	3619.4
15°	3998.0	3932.0	3841.7	3810.4	3803.5	3800.0	3786.1	3751.4	3720.1	3716.7	3706.2
17.5°	4171.7	4088.3	3980.6	3949.4	3918.1	3907.7	3873.0	3827.8	3779.2	3779.2	3765.3
20°	4338.4	4244.6	4116.1	4071.0	4025.8	3984.1	3925.1	3852.1	3789.6	3779.2	3765.3
22.5°	4519.0	4407.9	4258.5	4192.5	4112.6	4029.3	3928.5	3831.3	3751.4	3734.0	3723.6
25°	4720.5	4581.6	4404.4	4307.2	4178.6	4050.1	3900.8	3775.7	3681.9	3654.1	3647.2
27.5°	4942.8	4776.1	4560.7	4418.3	4230.7	4029.3	3838.2	3688.9	3574.2	3539.5	3529.1
30°	5168.6	4970.6	4703.1	4494.7	4230.7	3963.3	3723.6	3549.9	3417.9	3369.3	3362.4
32.5°	5394.4	5172.1	4831.7	4536.4	4189.1	3852.1	3574.2	3369.3	3219.9	3160.9	3174.8
35°	5665.3	5394.4	4949.8	4553.8	4119.6	3716.7	3404.0	3164.4	3011.5	2959.4	2969.9
37.5°	5946.6	5616.7	5043.5	4539.9	4022.3	3563.8	3213.0	2980.3	2789.2	2698.9	2709.3
40°	6189.8	5818.1	5109.5	4491.2	3897.3	3390.1	3025.4	2719.8	2455.8	2368.9	2358.5
42.5°	6419.0	5967.5	5144.3	4418.3	3754.9	3188.7	2758.0	2365.5	2101.5	1993.8	1997.3
45°	6658.7	6113.4	5130.4	4321.0	3577.7	2952.5	2414.1	2018.1	1785.4	1688.1	1691.6
47.5°	6933.1	6269.7	5116.5	4216.8	3362.4	2646.8	2084.1	1712.4	1511.0	1441.5	1434.6
50°	7224.9	6443.4	5099.1	4088.3	3122.7	2306.4	1757.6	1427.6	1257.4	1212.3	1201.8
52.5°	7554.9	6630.9	5088.7	3935.5	2834.4	1945.2	1465.8	1177.5	1062.9	1031.6	1028.2
55°	7950.9	6849.8	5102.6	3751.4	2487.0	1604.8	1219.2	1014.3	937.8	920.5	917.0
57.5°	8433.7	7131.1	5144.3	3536.0	2122.3	1309.5	1038.6	913.5	864.9	851.0	851.0
60°	8958.2	7450.7	5220.7	3292.9	1757.6	1080.3	920.5	833.6	812.8	830.2	830.2
62.5°	9524.4	7825.8	5356.2	2997.6	1417.2	913.5	826.7	767.6	753.8	788.5	792.0
65°	10048.9	8190.5	5443.0	2643.3	1125.4	792.0	753.8	701.6	708.6	743.3	739.9
67.5°	10371.9	8492.7	5321.4	2198.7	892.7	701.6	677.3	632.2	649.5	677.3	680.8
70°	10173.9	8322.5	4720.5	1660.3	698.2	611.3	594.0	566.2	580.1	614.8	628.7
72.5°	9204.8	7454.2	3671.5	1121.9	562.7	514.1	521.0	507.1	524.5	555.8	587.0
75°	7471.5	5634.0	2462.7	719.0	444.6	437.7	448.1	437.7	444.6	475.9	493.2
77.5°	3900.8	2747.5	1226.1	448.1	330.0	340.4	357.8	361.2	382.1	389.0	396.0
80°	1820.1	1236.6	510.6	250.1	218.8	239.7	274.4	277.9	284.8	295.2	298.7
82.5°	594.0	371.7	236.2	135.5	125.0	135.5	177.1	211.9	215.4	236.2	236.2
85°	62.5	38.2	52.1	55.6	48.6	59.0	79.9	76.4	34.7	20.8	20.8
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)