

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: P841218

Luminaire Tested: **ARCH4-150-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841218
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: ARCH4-150-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21664 lumens
Efficiency: N/A
Efficacy: 143.7 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

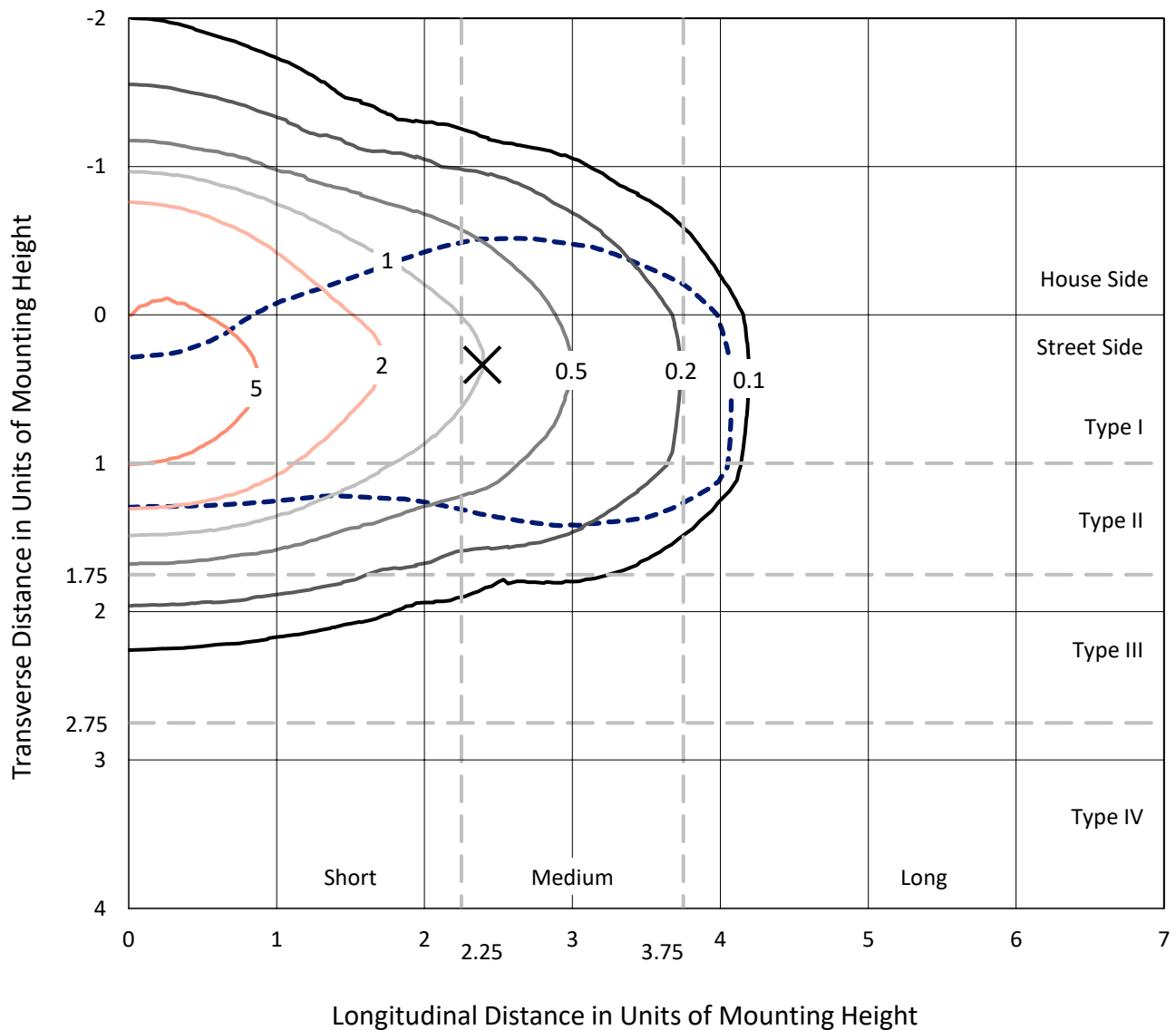
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

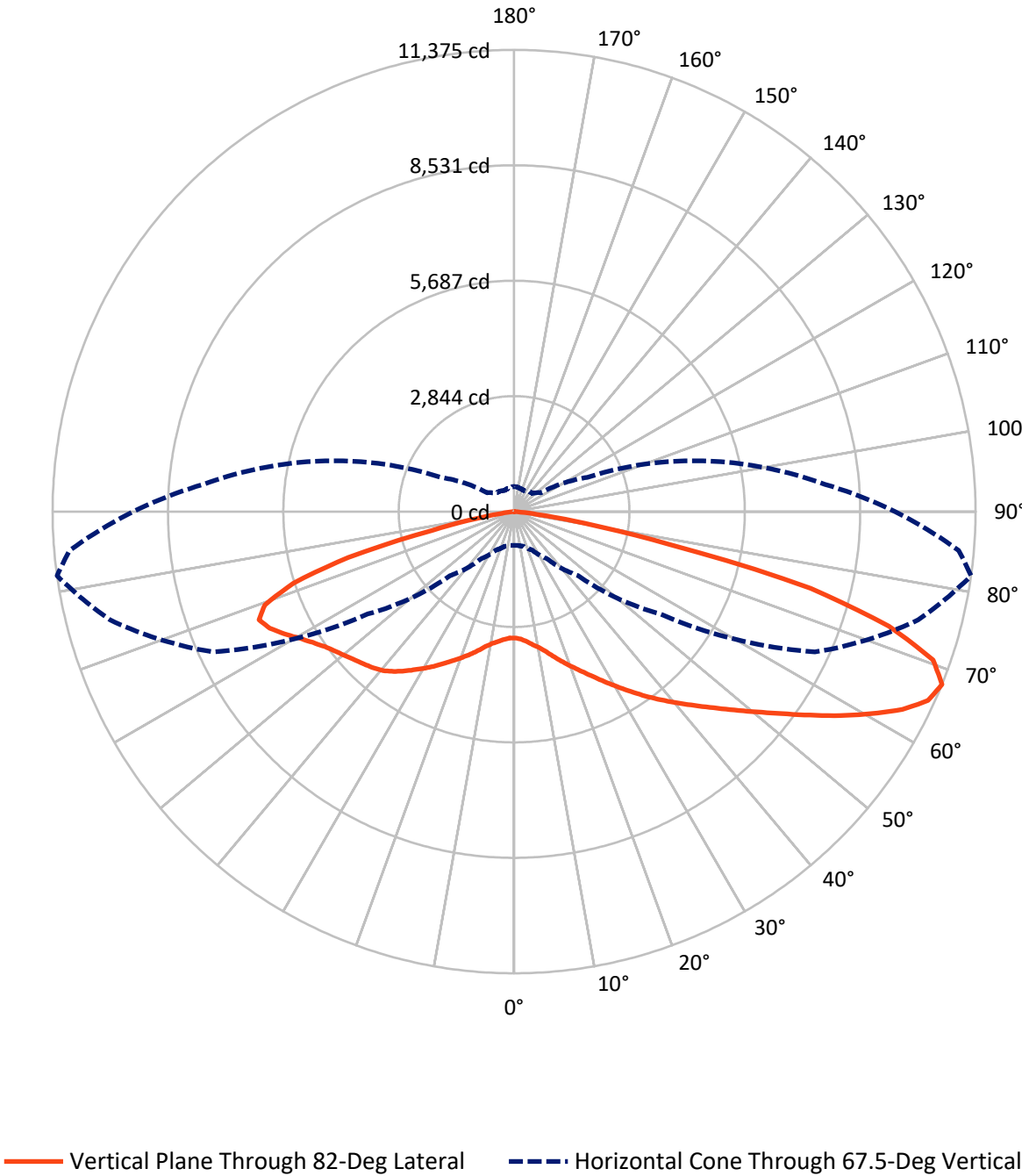
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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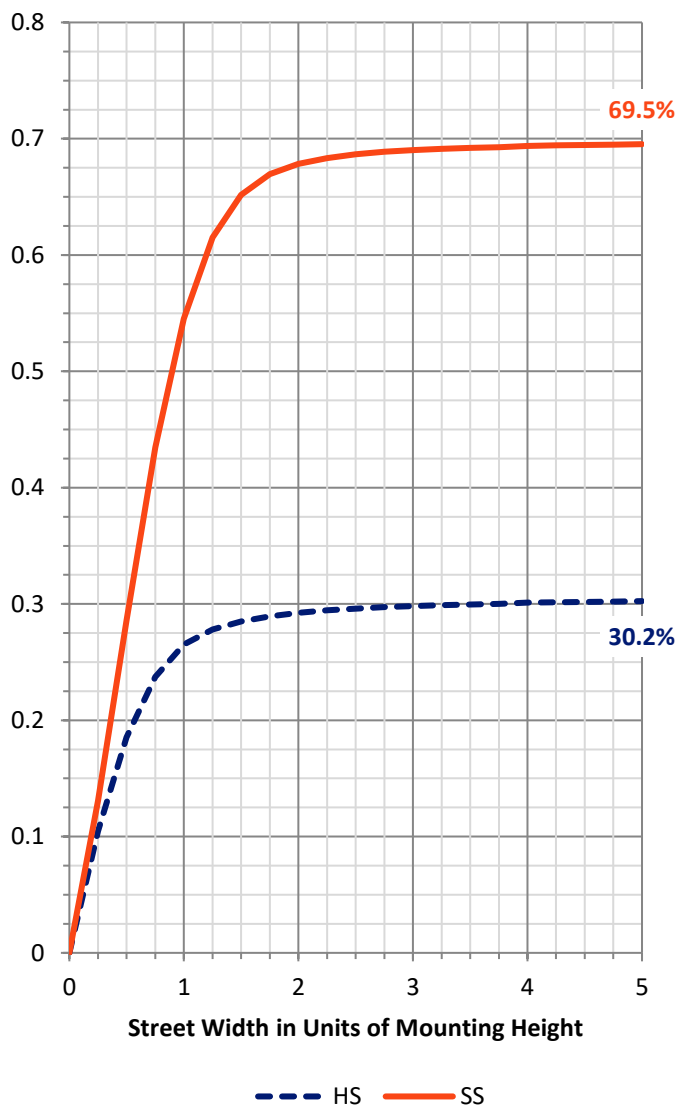
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6597.6	0.0	6597.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	15066.4	0.0	15066.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	21664.0	0.0	21664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.8	1.5
10°-20°	1159.3	5.4
20°-30°	2329.9	10.8
30°-40°	3659.9	16.9
40°-50°	4458.5	20.6
50°-60°	4212.7	19.4
60°-70°	3478.7	16.1
70°-80°	1894.3	8.7
80°-90°	148.9	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°	21664.0	100.0
0°-180°	21664.0	100.0

Coefficient of Utilization



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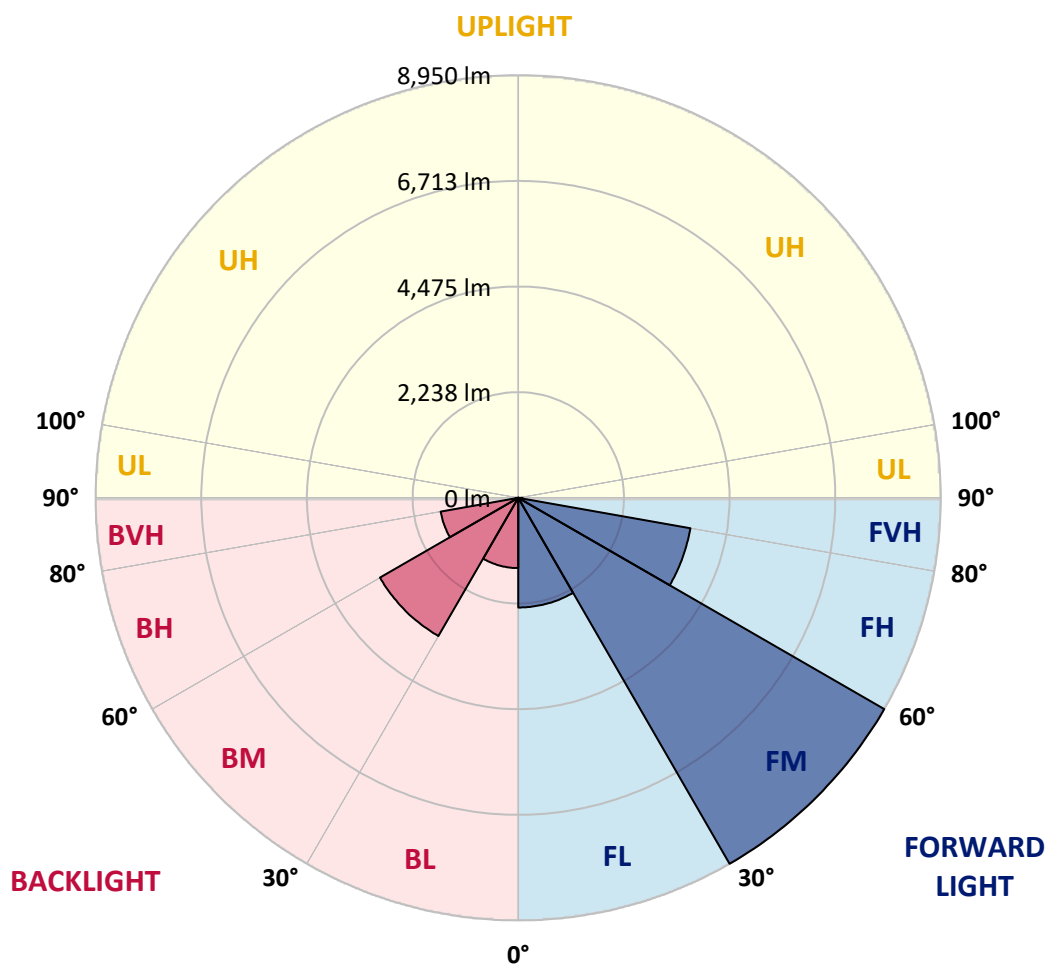
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2323.2	10.7			
FM	(30°-60°)	8950.3	41.3			
FH	(60°-80°)	3703.2	17.1			G2/5000
FVH	(80°-90°)	89.8	0.4			G1/100
BL	(0°-30°)	1487.8	6.9	B3/2500		
BM	(30°-60°)	3380.7	15.6	B3/5000		
BH	(60°-80°)	1669.9	7.7	B3/2500		G3/2500
BVH	(80°-90°)	59.2	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°	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2
2.5°	3255.7	3255.7	3280.9	3280.9	3258.9	3224.3	3214.8	3177.1	3142.5	3142.5	3145.6
5°	3567.2	3564.0	3582.9	3557.7	3504.2	3435.0	3387.9	3306.1	3236.9	3214.8	3211.7
7.5°	3947.8	3944.6	3954.1	3913.2	3812.5	3699.3	3604.9	3472.8	3359.5	3312.4	3299.8
10°	4372.4	4369.3	4359.9	4290.7	4155.4	3979.2	3837.7	3655.2	3485.4	3409.9	3394.2
12.5°	4860.0	4853.7	4831.7	4731.1	4545.5	4319.0	4114.5	3878.6	3652.1	3548.3	3513.7
15°	5404.2	5394.8	5353.9	5231.2	4982.7	4696.4	4432.2	4130.2	3853.4	3718.2	3671.0
17.5°	5976.7	5976.7	5913.8	5731.4	5454.5	5099.1	4771.9	4388.2	4064.2	3897.5	3840.8
20°	6558.7	6555.5	6476.9	6256.7	5929.5	5520.6	5105.4	4683.9	4281.2	4079.9	4010.7
22.5°	7172.1	7165.8	7068.3	6816.6	6426.6	5964.1	5479.7	4976.4	4520.3	4278.1	4190.0
25°	7876.7	7867.3	7747.7	7439.5	6977.0	6454.9	5901.2	5319.3	4794.0	4498.3	4394.5
27.5°	8625.4	8612.8	8471.2	8112.6	7606.2	6977.0	6366.8	5715.6	5095.9	4743.6	4627.2
30°	9292.2	9282.8	9128.7	8760.6	8178.7	7496.1	6810.3	6112.0	5413.7	5004.7	4860.0
32.5°	9795.5	9795.5	9657.1	9295.4	8691.4	7993.1	7257.0	6486.3	5743.9	5284.7	5114.8
35°	10100.7	10110.1	9990.6	9701.2	9131.8	8461.8	7719.4	6926.7	6096.3	5583.5	5401.1
37.5°	10144.7	10176.2	10107.0	9911.9	9436.9	8851.8	8172.4	7351.4	6461.2	5885.5	5681.0
40°	9940.2	9962.3	9965.4	9889.9	9562.8	9131.8	8571.9	7801.2	6848.1	6203.2	5967.3
42.5°	9531.3	9547.0	9575.3	9597.4	9471.5	9254.5	8877.0	8219.6	7260.1	6527.2	6250.4
45°	9002.8	8999.7	9046.9	9141.2	9135.0	9185.3	9046.9	8600.2	7688.0	6895.3	6565.0
47.5°	8213.3	8197.6	8364.3	8578.2	8685.1	8921.0	9050.0	8899.0	8153.5	7301.0	6923.6
50°	6977.0	6961.3	7326.2	7829.5	8144.1	8502.7	8877.0	9078.3	8641.1	7757.2	7313.6
52.5°	5473.4	5457.7	5920.1	6800.9	7486.6	8008.8	8527.8	9119.2	9103.5	8266.8	7754.0
55°	4070.5	4057.9	4507.7	5460.8	6571.3	7436.3	8100.0	9012.3	9537.6	8851.8	8288.8
57.5°	2868.8	2862.5	3252.6	4042.2	5394.8	6738.0	7688.0	8804.7	9937.1	9487.3	8892.7
60°	2013.2	2003.8	2286.9	2897.1	4079.9	5684.2	7279.0	8527.8	10235.9	10113.2	9534.5
62.5°	1355.8	1349.5	1550.8	2060.4	2897.1	4375.6	6659.3	8342.3	10405.8	10742.4	10182.5
65°	1028.6	1025.5	1116.7	1396.7	2051.0	3142.5	5674.7	8320.2	10427.8	11214.2	10732.9
67.5°	830.5	833.6	883.9	1044.4	1418.7	2233.4	4400.8	8181.8	10311.4	11374.7	11000.3
70°	679.5	679.5	701.5	808.4	1047.5	1506.8	3073.3	7552.7	9987.4	10956.3	10682.6
72.5°	519.0	522.2	591.4	654.3	789.6	1056.9	1969.2	6250.4	9223.0	9660.3	9452.7
75°	412.1	408.9	449.8	537.9	613.4	755.0	1207.9	4482.5	7848.4	7549.5	7417.4
77.5°	295.7	292.5	324.0	399.5	465.6	534.8	720.4	2261.7	4268.6	3922.6	3825.1
80°	201.3	195.0	223.3	276.8	308.3	314.6	352.3	868.2	1862.2	1755.3	1733.3
82.5°	103.8	103.8	119.5	157.3	160.4	163.6	157.3	280.0	616.5	575.7	550.5
85°	40.9	40.9	44.0	53.5	53.5	56.6	56.6	72.3	66.1	62.9	59.8
87.5°	3.1	3.1	6.3	6.3	9.4	9.4	9.4	12.6	15.7	15.7	15.7
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°	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2
2.5°	3139.4	3126.8	3085.9	3076.4	3070.1	3060.7	3063.9	3041.8	3032.4	3035.5	3023.0
5°	3196.0	3174.0	3123.6	3101.6	3095.3	3085.9	3095.3	3079.6	3063.9	3070.1	3063.9
7.5°	3274.6	3243.2	3180.2	3158.2	3155.1	3145.6	3158.2	3145.6	3133.1	3139.4	3126.8
10°	3356.4	3315.5	3246.3	3224.3	3224.3	3221.1	3233.7	3214.8	3202.3	3205.4	3199.1
12.5°	3475.9	3422.5	3347.0	3328.1	3318.7	3328.1	3331.2	3306.1	3284.1	3287.2	3277.8
15°	3620.6	3560.9	3479.1	3450.8	3444.5	3441.3	3428.8	3397.3	3369.0	3365.8	3356.4
17.5°	3777.9	3702.4	3604.9	3576.6	3548.3	3538.9	3507.4	3466.5	3422.5	3422.5	3409.9
20°	3928.9	3844.0	3727.6	3686.7	3645.8	3608.1	3554.6	3488.5	3431.9	3422.5	3409.9
22.5°	4092.5	3991.8	3856.6	3796.8	3724.4	3648.9	3557.7	3469.6	3397.3	3381.6	3372.1
25°	4274.9	4149.1	3988.7	3900.6	3784.2	3667.8	3532.6	3419.3	3334.4	3309.2	3302.9
27.5°	4476.3	4325.3	4130.2	4001.3	3831.4	3648.9	3475.9	3340.7	3236.9	3205.4	3196.0
30°	4680.7	4501.4	4259.2	4070.5	3831.4	3589.2	3372.1	3214.8	3095.3	3051.3	3045.0
32.5°	4885.2	4683.9	4375.6	4108.2	3793.6	3488.5	3236.9	3051.3	2916.0	2862.5	2875.1
35°	5130.5	4885.2	4482.5	4123.9	3730.7	3365.8	3082.7	2865.7	2727.3	2680.1	2689.5
37.5°	5385.3	5086.5	4567.5	4111.4	3642.7	3227.4	2909.7	2699.0	2526.0	2444.2	2453.6
40°	5605.5	5269.0	4627.2	4067.3	3529.4	3070.1	2739.9	2463.0	2224.0	2145.3	2135.9
42.5°	5813.2	5404.2	4658.7	4001.3	3400.4	2887.7	2497.6	2142.2	1903.1	1805.6	1808.7
45°	6030.2	5536.3	4646.1	3913.2	3240.0	2673.8	2186.2	1827.6	1616.9	1528.8	1531.9
47.5°	6278.7	5677.9	4633.5	3818.8	3045.0	2397.0	1887.4	1550.8	1368.4	1305.4	1299.2
50°	6542.9	5835.2	4617.8	3702.4	2827.9	2088.7	1591.7	1292.9	1138.7	1097.8	1088.4
52.5°	6841.8	6005.0	4608.4	3564.0	2566.8	1761.6	1327.5	1066.4	962.6	934.3	931.1
55°	7200.4	6203.2	4621.0	3397.3	2252.3	1453.3	1104.1	918.5	849.3	833.6	830.5
57.5°	7637.6	6458.0	4658.7	3202.3	1922.0	1185.9	940.5	827.3	783.3	770.7	770.7
60°	8112.6	6747.4	4727.9	2982.1	1591.7	978.3	833.6	755.0	736.1	751.8	751.8
62.5°	8625.4	7087.1	4850.6	2714.7	1283.4	827.3	748.7	695.2	682.6	714.1	717.2
65°	9100.4	7417.4	4929.2	2393.8	1019.2	717.2	682.6	635.4	641.7	673.2	670.0
67.5°	9392.9	7691.1	4819.1	1991.2	808.4	635.4	613.4	572.5	588.2	613.4	616.5
70°	9213.6	7537.0	4274.9	1503.6	632.3	553.6	537.9	512.7	525.3	556.8	569.4
72.5°	8336.0	6750.6	3324.9	1016.0	509.6	465.6	471.8	459.3	475.0	503.3	531.6
75°	6766.3	5102.2	2230.3	651.1	402.6	396.4	405.8	396.4	402.6	431.0	446.7
77.5°	3532.6	2488.2	1110.4	405.8	298.8	308.3	324.0	327.1	346.0	352.3	358.6
80°	1648.3	1119.8	462.4	226.5	198.2	217.0	248.5	251.7	257.9	267.4	270.5
82.5°	537.9	336.6	213.9	122.7	113.2	122.7	160.4	191.9	195.0	213.9	213.9
85°	56.6	34.6	47.2	50.3	44.0	53.5	72.3	69.2	31.5	18.9	18.9
87.5°	15.7	12.6	15.7	15.7	12.6	12.6	9.4	3.1	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)