

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: P836199

Luminaire Tested: **ARCH3-150-740-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836199
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: ARCH3-150-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22500 lumens
Efficiency: N/A
Efficacy: 149.3 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

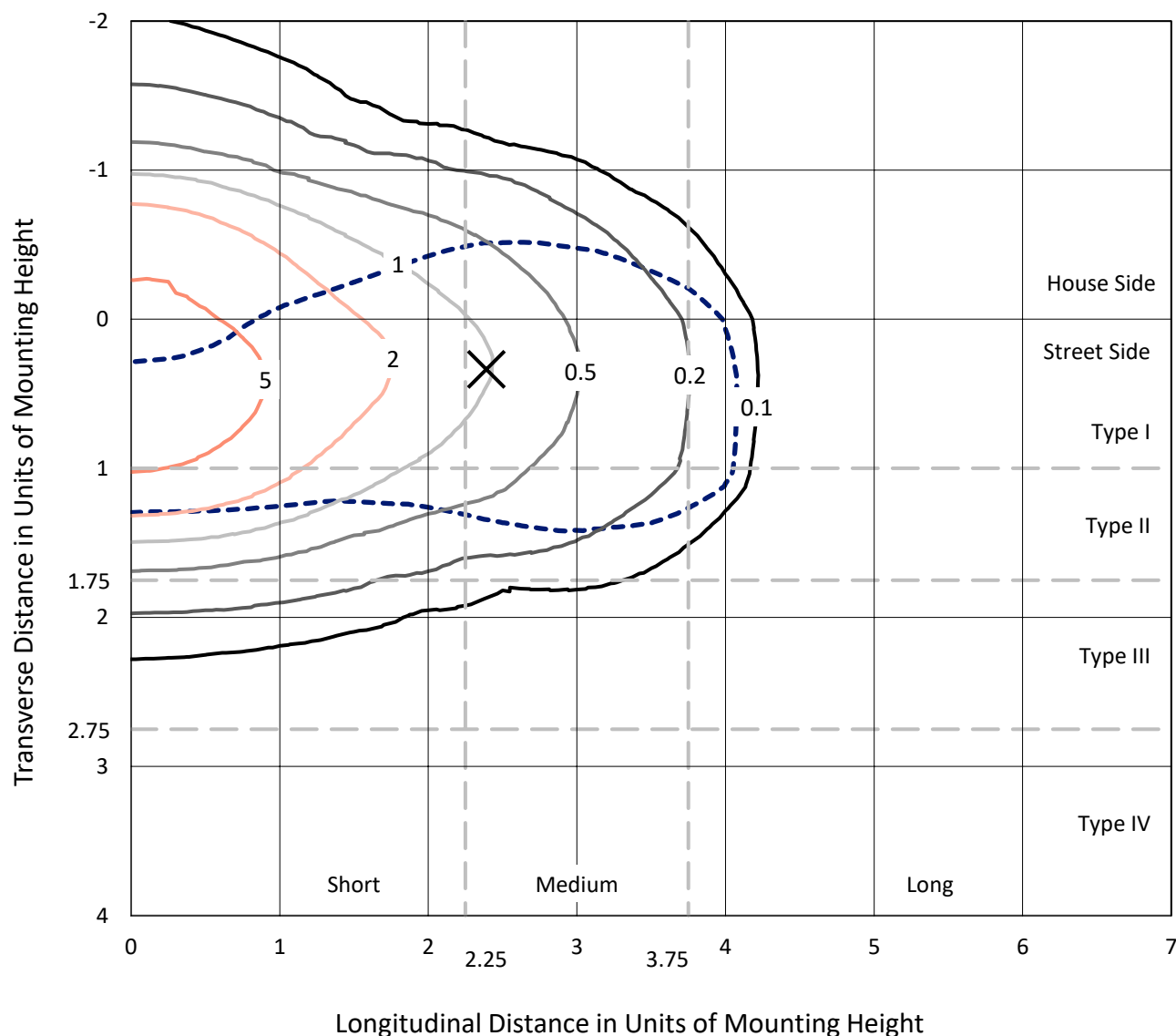
Input Watts (W): 150.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

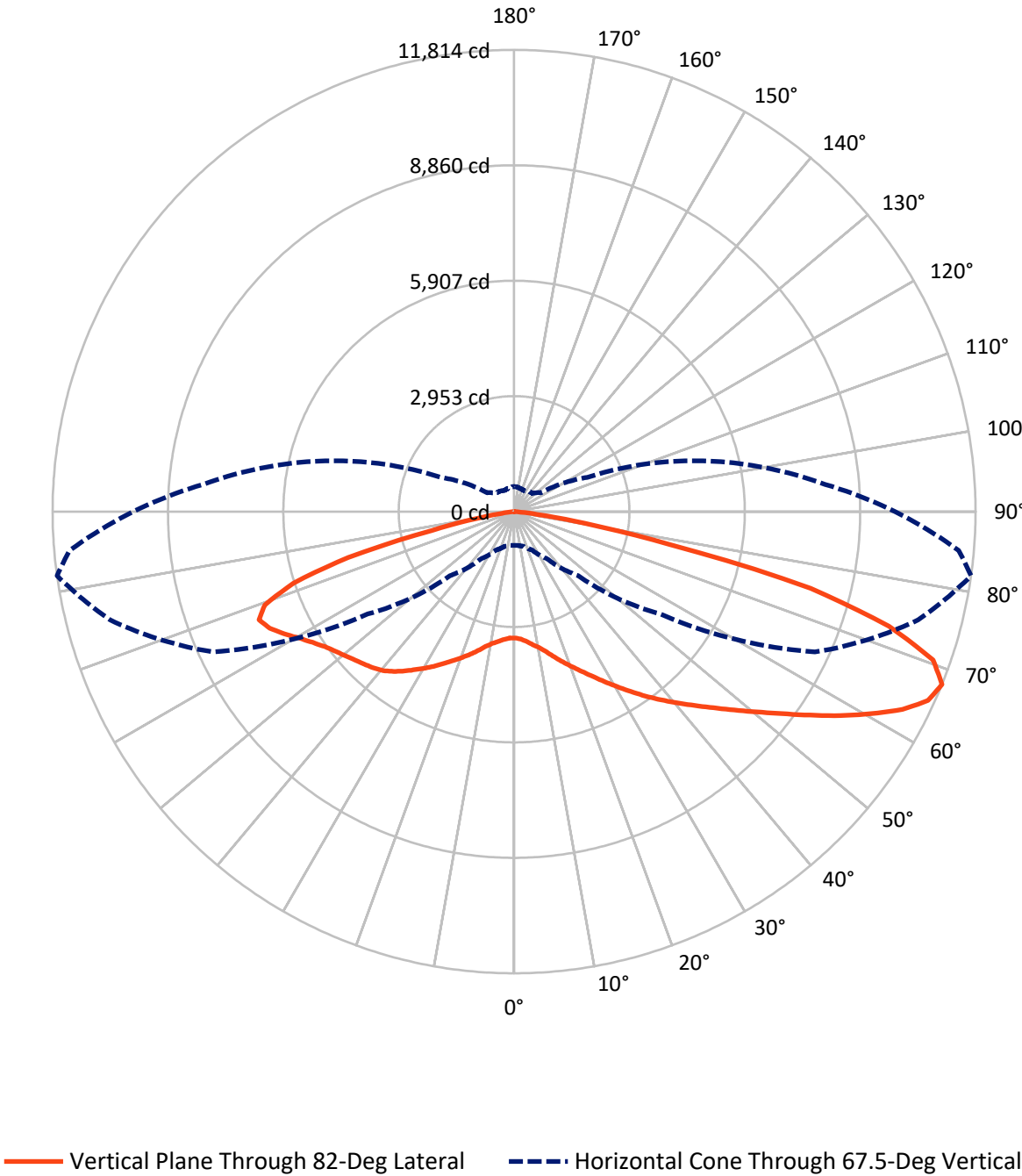
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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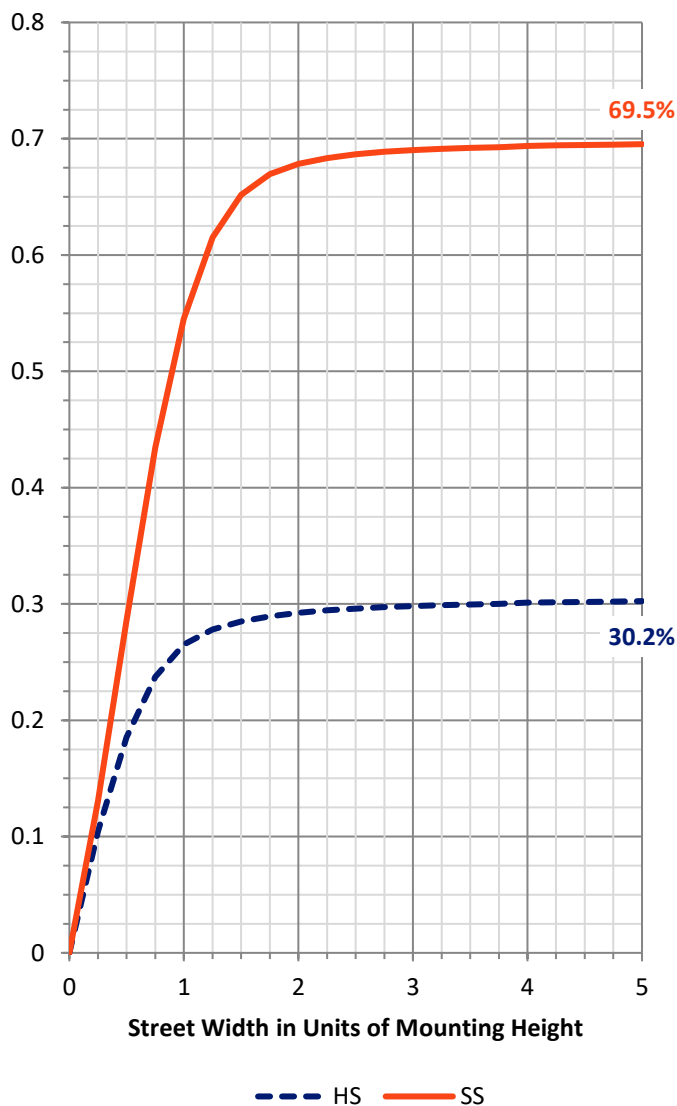
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6852.2	0.0	6852.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	15647.8	0.0	15647.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	22500.0	0.0	22500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.3	1.5
10°-20°	1204.0	5.4
20°-30°	2419.8	10.8
30°-40°	3801.1	16.9
40°-50°	4630.5	20.6
50°-60°	4375.3	19.4
60°-70°	3613.0	16.1
70°-80°	1967.4	8.7
80°-90°	154.7	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°	22500.0	100.0
0°-180°	22500.0	100.0

Coefficient of Utilization



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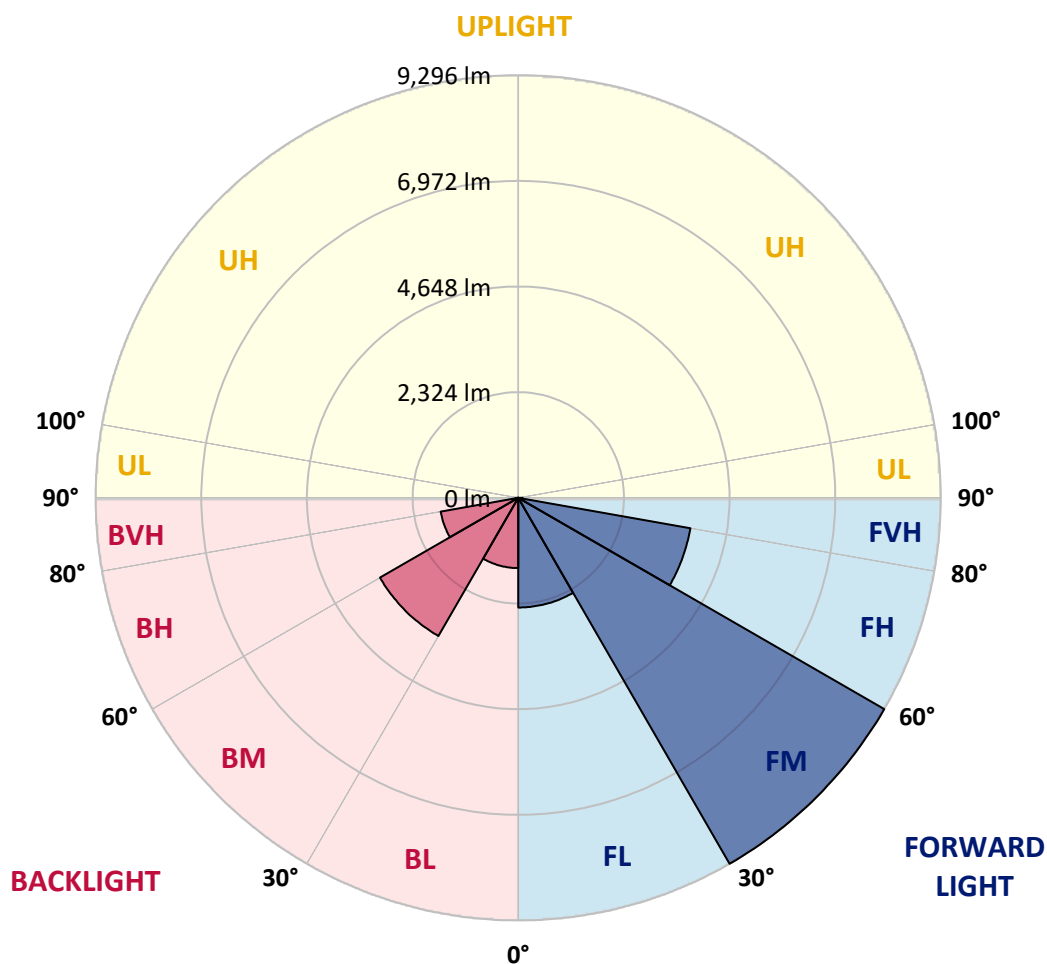
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2412.8	10.7			
FM	(30°-60°)	9295.7	41.3			
FH	(60°-80°)	3846.1	17.1			G2/5000
FVH	(80°-90°)	93.2	0.4			G1/100
BL	(0°-30°)	1545.2	6.9	B3/2500		
BM	(30°-60°)	3511.2	15.6	B3/5000		
BH	(60°-80°)	1734.3	7.7	B3/2500		G3/2500
BVH	(80°-90°)	61.4	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°	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4
2.5°	3381.4	3381.4	3407.5	3407.5	3384.6	3348.7	3338.9	3299.7	3263.8	3263.8	3267.0
5°	3704.8	3701.5	3721.2	3695.0	3639.5	3567.6	3518.6	3433.7	3361.8	3338.9	3335.6
7.5°	4100.1	4096.9	4106.7	4064.2	3959.6	3842.0	3744.0	3606.8	3489.2	3440.2	3427.1
10°	4541.2	4537.9	4528.1	4456.2	4315.8	4132.8	3985.8	3796.3	3619.9	3541.5	3525.1
12.5°	5047.6	5041.0	5018.2	4913.6	4720.9	4485.6	4273.3	4028.3	3793.0	3685.2	3649.3
15°	5612.8	5603.0	5560.5	5433.1	5175.0	4877.7	4603.3	4289.6	4002.1	3861.6	3812.6
17.5°	6207.4	6207.4	6142.0	5952.5	5665.0	5295.9	4956.1	4557.5	4221.0	4047.9	3989.0
20°	6811.8	6808.5	6726.8	6498.1	6158.4	5733.6	5302.4	4864.6	4446.4	4237.3	4165.5
22.5°	7448.8	7442.3	7341.0	7079.7	6674.5	6194.3	5691.2	5168.4	4694.7	4443.2	4351.7
25°	8180.7	8170.9	8046.7	7726.5	7246.3	6704.0	6129.0	5524.6	4979.0	4671.9	4564.0
27.5°	8958.2	8945.1	8798.1	8425.7	7899.7	7246.3	6612.5	5936.2	5292.6	4926.7	4805.8
30°	9650.8	9641.0	9480.9	9098.7	8494.3	7785.3	7073.1	6347.8	5622.6	5197.9	5047.6
32.5°	10173.5	10173.5	10029.8	9654.1	9026.8	8301.5	7537.0	6736.6	5965.6	5488.6	5312.2
35°	10490.4	10500.2	10376.1	10075.5	9484.2	8788.3	8017.3	7194.0	6331.5	5799.0	5609.5
37.5°	10536.2	10568.9	10497.0	10294.4	9801.1	9193.4	8487.8	7635.1	6710.5	6112.6	5900.3
40°	10323.8	10346.7	10350.0	10271.6	9931.8	9484.2	8902.7	8102.2	7112.3	6442.6	6197.6
42.5°	9899.1	9915.4	9944.9	9967.7	9837.0	9611.6	9219.6	8536.8	7540.3	6779.1	6491.6
45°	9350.3	9347.0	9396.0	9494.0	9487.5	9539.7	9396.0	8932.1	7984.6	7161.3	6818.3
47.5°	8530.2	8513.9	8687.0	8909.2	9020.3	9265.3	9399.3	9242.4	8468.2	7582.8	7190.7
50°	7246.3	7229.9	7608.9	8131.6	8458.4	8830.8	9219.6	9428.7	8974.5	8056.5	7595.9
52.5°	5684.6	5668.3	6148.6	7063.3	7775.5	8317.9	8856.9	9471.1	9454.8	8585.8	8053.2
55°	4227.5	4214.5	4681.7	5671.6	6824.8	7723.3	8412.6	9360.1	9905.6	9193.4	8608.6
57.5°	2979.5	2973.0	3378.1	4198.1	5603.0	6998.0	7984.6	9144.4	10320.6	9853.4	9235.9
60°	2090.9	2081.1	2375.1	3008.9	4237.3	5903.5	7559.9	8856.9	10630.9	10503.5	9902.4
62.5°	1408.1	1401.6	1610.6	2139.9	3008.9	4544.4	6916.3	8664.2	10807.3	11156.9	10575.4
65°	1068.3	1065.1	1159.8	1450.6	2130.1	3263.8	5893.7	8641.3	10830.2	11647.0	11147.1
67.5°	862.5	865.8	918.0	1084.7	1473.4	2319.6	4570.6	8497.6	10709.3	11813.6	11424.8
70°	705.7	705.7	728.5	839.6	1087.9	1564.9	3191.9	7844.1	10372.8	11379.1	11094.8
72.5°	539.1	542.3	614.2	679.5	820.0	1097.7	2045.2	6491.6	9578.9	10033.1	9817.4
75°	428.0	424.7	467.2	558.7	637.1	784.1	1254.5	4655.5	8151.2	7840.9	7703.7
77.5°	307.1	303.8	336.5	414.9	483.5	555.4	748.2	2349.0	4433.4	4074.0	3972.7
80°	209.1	202.6	232.0	287.5	320.2	326.7	365.9	901.7	1934.1	1823.0	1800.1
82.5°	107.8	107.8	124.1	163.4	166.6	169.9	163.4	290.8	640.3	597.9	571.7
85°	42.5	42.5	45.7	55.5	55.5	58.8	58.8	75.1	68.6	65.3	62.1
87.5°	3.3	3.3	6.5	6.5	9.8	9.8	9.8	13.1	16.3	16.3	16.3
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°	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4
2.5°	3260.5	3247.4	3205.0	3195.2	3188.6	3178.8	3182.1	3159.2	3149.4	3152.7	3139.6
5°	3319.3	3296.4	3244.2	3221.3	3214.8	3205.0	3214.8	3198.4	3182.1	3188.6	3182.1
7.5°	3401.0	3368.3	3303.0	3280.1	3276.8	3267.0	3280.1	3267.0	3254.0	3260.5	3247.4
10°	3485.9	3443.5	3371.6	3348.7	3348.7	3345.4	3358.5	3338.9	3325.8	3329.1	3322.6
12.5°	3610.1	3554.5	3476.1	3456.5	3446.7	3456.5	3459.8	3433.7	3410.8	3414.1	3404.2
15°	3760.4	3698.3	3613.3	3583.9	3577.4	3574.1	3561.1	3528.4	3499.0	3495.7	3485.9
17.5°	3923.7	3845.3	3744.0	3714.6	3685.2	3675.4	3642.7	3600.3	3554.5	3554.5	3541.5
20°	4080.5	3992.3	3871.4	3829.0	3786.5	3747.3	3691.7	3623.1	3564.3	3554.5	3541.5
22.5°	4250.4	4145.9	4005.4	3943.3	3868.2	3789.8	3695.0	3603.5	3528.4	3512.1	3502.3
25°	4439.9	4309.2	4142.6	4051.1	3930.2	3809.4	3668.9	3551.3	3463.1	3436.9	3430.4
27.5°	4649.0	4492.2	4289.6	4155.7	3979.2	3789.8	3610.1	3469.6	3361.8	3329.1	3319.3
30°	4861.3	4675.1	4423.6	4227.5	3979.2	3727.7	3502.3	3338.9	3214.8	3169.0	3162.5
32.5°	5073.7	4864.6	4544.4	4266.7	3940.0	3623.1	3361.8	3169.0	3028.5	2973.0	2986.1
35°	5328.5	5073.7	4655.5	4283.1	3874.7	3495.7	3201.7	2976.3	2832.5	2783.5	2793.3
37.5°	5593.2	5282.8	4743.7	4270.0	3783.2	3352.0	3022.0	2803.1	2623.4	2538.5	2548.3
40°	5821.9	5472.3	4805.8	4224.3	3665.6	3188.6	2845.6	2558.1	2309.8	2228.1	2218.3
42.5°	6037.5	5612.8	4838.5	4155.7	3531.7	2999.1	2594.0	2224.8	1976.6	1875.3	1878.5
45°	6262.9	5750.0	4825.4	4064.2	3365.0	2777.0	2270.6	1898.1	1679.3	1587.8	1591.0
47.5°	6521.0	5897.0	4812.3	3966.2	3162.5	2489.5	1960.2	1610.6	1421.2	1355.8	1349.3
50°	6795.4	6060.3	4796.0	3845.3	2937.1	2169.3	1653.1	1342.8	1182.7	1140.2	1130.4
52.5°	7105.8	6236.8	4786.2	3701.5	2665.9	1829.5	1378.7	1107.5	999.7	970.3	967.0
55°	7478.2	6442.6	4799.3	3528.4	2339.2	1509.4	1146.7	954.0	882.1	865.8	862.5
57.5°	7932.4	6707.2	4838.5	3325.8	1996.2	1231.7	976.8	859.2	813.5	800.4	800.4
60°	8425.7	7007.8	4910.4	3097.1	1653.1	1016.0	865.8	784.1	764.5	780.8	780.8
62.5°	8958.2	7360.6	5037.8	2819.5	1332.9	859.2	777.6	722.0	708.9	741.6	744.9
65°	9451.5	7703.7	5119.4	2486.2	1058.5	744.9	708.9	659.9	666.5	699.1	695.9
67.5°	9755.4	7987.9	5005.1	2068.0	839.6	659.9	637.1	594.6	610.9	637.1	640.3
70°	9569.1	7827.8	4439.9	1561.6	656.7	575.0	558.7	532.5	545.6	578.3	591.3
72.5°	8657.6	7011.1	3453.3	1055.3	529.3	483.5	490.1	477.0	493.3	522.7	552.1
75°	7027.4	5299.1	2316.3	676.3	418.2	411.6	421.4	411.6	418.2	447.6	463.9
77.5°	3668.9	2584.2	1153.3	421.4	310.4	320.2	336.5	339.8	359.4	365.9	372.4
80°	1711.9	1163.1	480.3	235.2	205.8	225.4	258.1	261.4	267.9	277.7	281.0
82.5°	558.7	349.6	222.2	127.4	117.6	127.4	166.6	199.3	202.6	222.2	222.2
85°	58.8	35.9	49.0	52.3	45.7	55.5	75.1	71.9	32.7	19.6	19.6
87.5°	16.3	13.1	16.3	16.3	13.1	13.1	9.8	3.3	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)