

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: P836174

Luminaire Tested: **ARCH3-150-727-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20703 lumens
Efficiency: N/A
Efficacy: 137.4 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

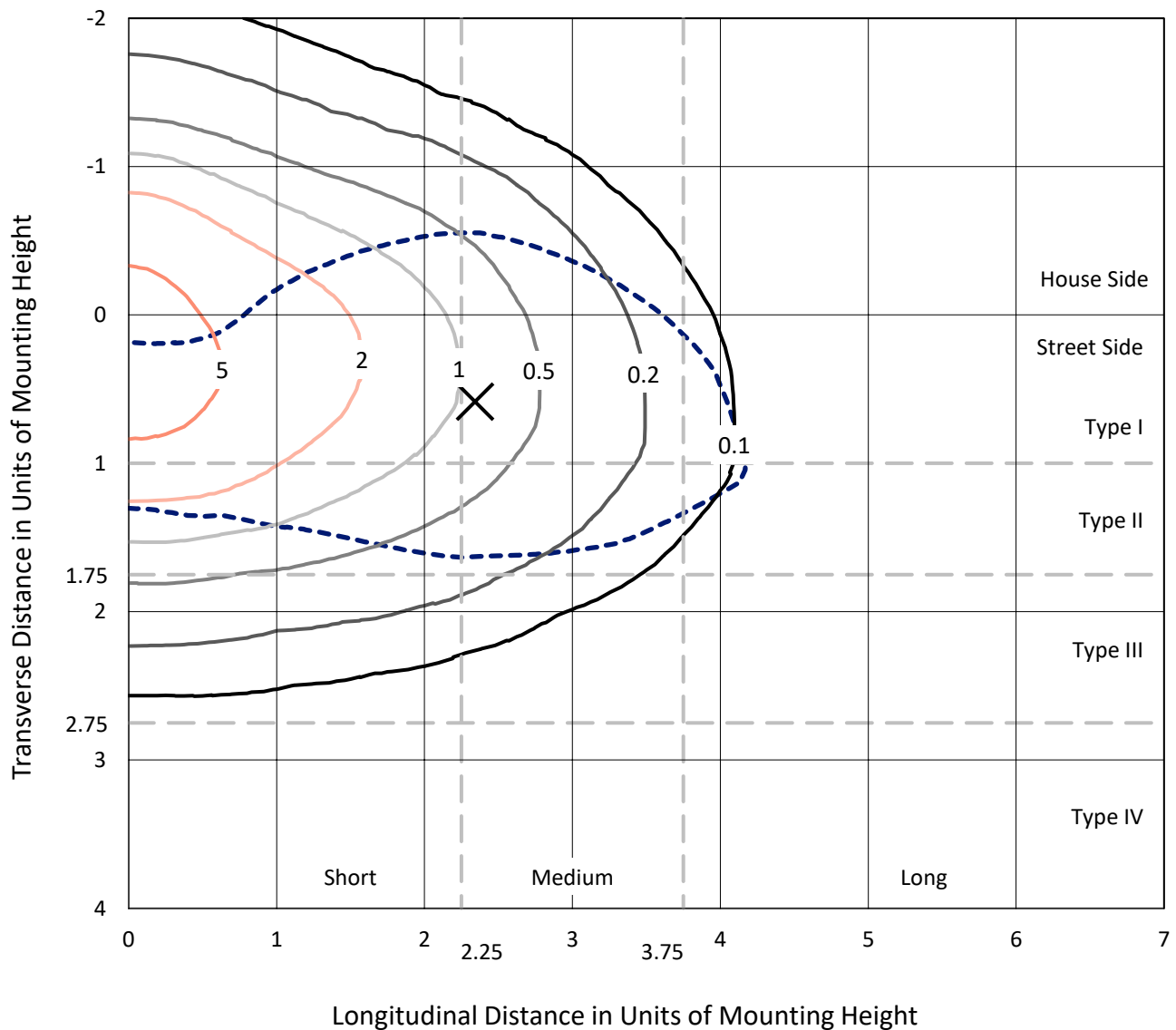
Input Watts (W): 150.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

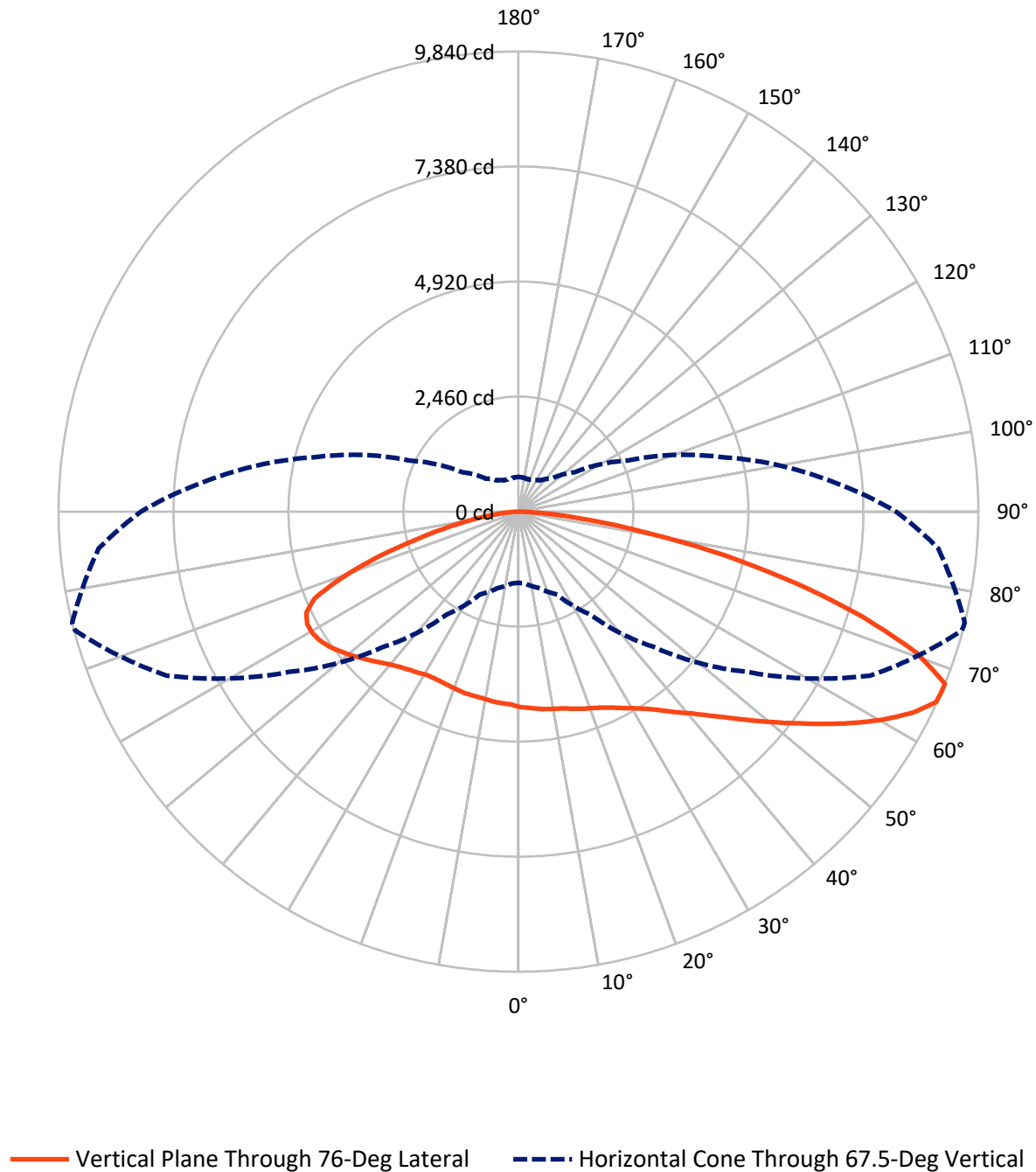
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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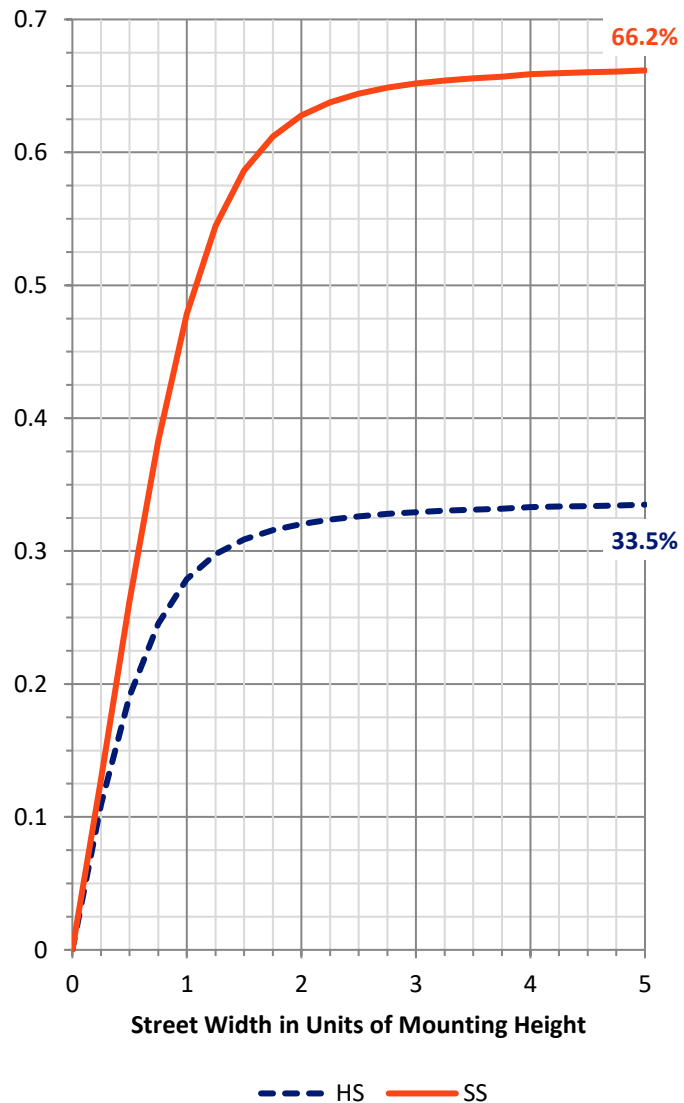
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6995.7	0.0	6995.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	13707.4	0.0	13707.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	20703.0	0.0	20703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.3	1.9
10°-20°	1232.8	6.0
20°-30°	2094.6	10.1
30°-40°	2980.4	14.4
40°-50°	3764.1	18.2
50°-60°	4075.3	19.7
60°-70°	3790.5	18.3
70°-80°	2035.8	9.8
80°-90°	326.2	1.6
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°	20703.0	100.0
0°-180°	20703.0	100.0

Coefficient of Utilization



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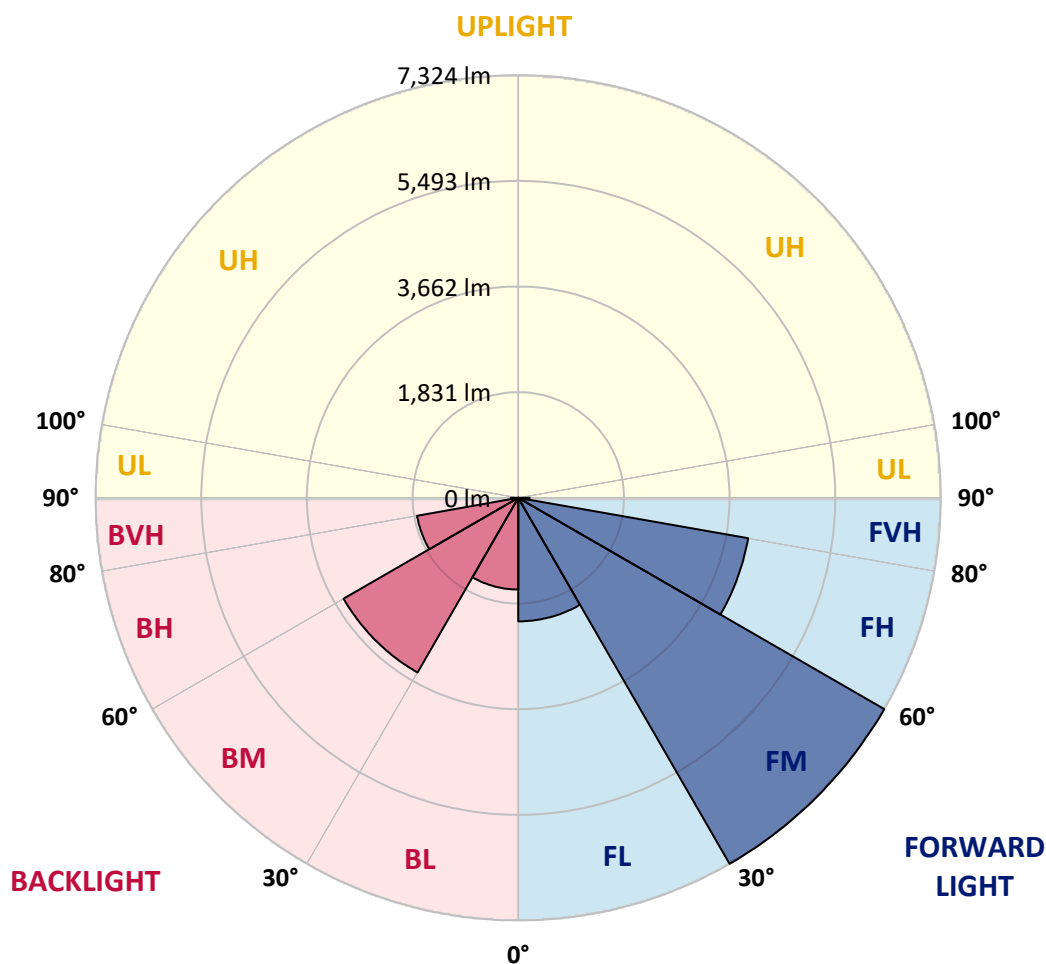
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2140.9	10.3			
FM	(30°-60°)	7323.9	35.4			
FH	(60°-80°)	4045.2	19.5			G2/5000
FVH	(80°-90°)	197.3	1.0			G2/225
BL	(0°-30°)	1589.8	7.7	B3/2500		
BM	(30°-60°)	3495.8	16.9	B3/5000		
BH	(60°-80°)	1781.2	8.6	B3/2500		G3/2500
BVH	(80°-90°)	128.9	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4182.0	4182.0	4182.0	4182.0	4182.0	4182.0	4182.0	4182.0	4182.0	4182.0	4182.0
2.5°	4308.8	4301.1	4270.4	4274.2	4274.2	4270.4	4224.2	4205.0	4205.0	4201.2	4158.9
5°	4462.6	4451.0	4416.4	4408.7	4393.4	4374.1	4301.1	4258.8	4239.6	4235.8	4178.1
7.5°	4643.2	4627.8	4585.6	4562.5	4524.1	4474.1	4381.8	4316.5	4270.4	4266.5	4185.8
10°	4823.9	4808.5	4758.5	4716.2	4662.4	4581.7	4462.6	4366.5	4293.4	4285.7	4189.6
12.5°	5039.1	5023.7	4962.2	4908.4	4827.7	4720.1	4562.5	4431.8	4331.9	4320.3	4201.2
15°	5265.9	5242.8	5181.3	5119.8	5019.9	4881.5	4693.2	4520.2	4393.4	4374.1	4235.8
17.5°	5454.2	5423.5	5373.5	5312.0	5200.5	5039.1	4823.9	4608.6	4451.0	4435.6	4270.4
20°	5615.7	5592.6	5538.8	5481.1	5362.0	5185.2	4946.9	4697.0	4504.8	4485.6	4297.3
22.5°	5769.4	5738.7	5707.9	5665.6	5534.9	5338.9	5089.1	4804.6	4574.0	4551.0	4331.9
25°	5946.2	5911.6	5900.1	5877.0	5723.3	5523.4	5262.0	4939.2	4670.1	4643.2	4393.4
27.5°	6165.3	6126.9	6103.8	6103.8	5919.3	5711.8	5446.5	5096.8	4781.6	4758.5	4470.2
30°	6395.9	6349.8	6315.2	6315.2	6107.7	5900.1	5627.2	5254.4	4908.4	4881.5	4570.2
32.5°	6599.7	6553.5	6515.1	6511.3	6296.0	6088.4	5815.5	5427.3	5062.2	5027.6	4693.2
35°	6757.2	6715.0	6680.4	6688.1	6484.3	6280.6	6026.9	5657.9	5254.4	5215.9	4854.6
37.5°	6853.3	6838.0	6818.7	6845.7	6657.3	6465.1	6246.0	5880.9	5473.4	5438.9	5054.5
40°	6903.3	6891.8	6968.7	7003.2	6803.4	6630.4	6465.1	6111.5	5711.8	5673.3	5285.1
42.5°	6976.3	7072.4	7103.2	7095.5	6911.0	6757.2	6665.0	6361.3	5992.3	5957.8	5561.9
45°	6715.0	6691.9	6861.0	6953.3	6918.7	6838.0	6853.3	6661.2	6319.1	6284.5	5880.9
47.5°	6365.2	6334.4	6430.5	6657.3	6791.8	6868.7	7022.5	6972.5	6695.7	6665.0	6253.7
50°	5627.2	5669.5	6026.9	6330.6	6595.8	6861.0	7164.7	7306.9	7110.9	7080.1	6653.5
52.5°	4808.5	4850.8	5223.6	5923.2	6357.5	6803.4	7268.5	7641.3	7560.6	7526.0	7080.1
55°	4212.7	4305.0	4727.8	5235.1	6019.3	6622.7	7330.0	7983.4	8044.9	8014.1	7545.2
57.5°	3620.8	3690.0	4009.0	4458.7	5558.0	6307.5	7326.1	8302.4	8552.3	8521.5	8018.0
60°	2925.1	3013.5	3267.2	3751.5	4943.0	5930.8	7218.5	8552.3	9040.4	9017.4	8475.4
62.5°	2448.4	2475.4	2656.0	3075.0	4151.2	5454.2	6976.3	8686.8	9482.4	9467.1	8886.7
65°	1971.8	1975.7	2140.9	2490.7	3386.3	4862.3	6565.1	8636.8	9816.8	9824.5	9182.6
67.5°	1522.1	1541.3	1691.2	1956.5	2690.6	4093.6	5977.0	8298.6	9820.7	9839.9	9013.5
70°	1053.2	1068.6	1295.3	1552.9	2079.4	3263.3	5181.3	7403.0	9013.5	9028.9	8079.5
72.5°	741.8	749.5	991.7	1241.5	1625.9	2460.0	3909.1	6123.0	7683.6	7695.1	6795.7
75°	553.5	561.2	699.6	941.7	1245.4	1702.8	2671.4	4689.3	6138.4	6138.4	5365.8
77.5°	392.1	395.9	453.6	649.6	830.2	1149.3	1606.7	3071.1	4504.8	4512.5	3909.1
80°	265.2	269.1	296.0	438.2	518.9	622.7	872.5	1610.5	2840.5	2852.0	2483.0
82.5°	138.4	146.1	165.3	222.9	261.4	345.9	449.7	818.7	1572.1	1602.8	1491.4
85°	53.8	53.8	61.5	73.0	96.1	134.5	207.6	311.3	711.1	734.1	657.3
87.5°	19.2	19.2	23.1	23.1	26.9	30.7	34.6	46.1	80.7	80.7	76.9
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°	4182.0	4182.0	4182.0	4182.0	4182.0	4182.0	4182.0	4182.0	4182.0	4182.0	4182.0
2.5°	4143.5	4143.5	4124.3	4132.0	4128.1	4120.5	4112.8	4124.3	4112.8	4085.9	4082.0
5°	4151.2	4143.5	4112.8	4108.9	4097.4	4082.0	4062.8	4070.5	4051.3	4028.2	4024.4
7.5°	4155.1	4139.7	4097.4	4082.0	4059.0	4028.2	3997.5	3997.5	3970.6	3947.5	3943.7
10°	4147.4	4128.1	4070.5	4039.7	3997.5	3951.3	3909.1	3897.5	3866.8	3839.9	3839.9
12.5°	4151.2	4124.3	4051.3	4001.3	3943.7	3886.0	3832.2	3816.8	3789.9	3763.0	3759.2
15°	4174.3	4135.8	4043.6	3978.2	3893.7	3828.3	3770.7	3759.2	3736.1	3716.9	3716.9
17.5°	4197.3	4147.4	4032.1	3939.8	3836.0	3763.0	3709.2	3709.2	3693.8	3682.3	3682.3
20°	4208.9	4151.2	4009.0	3886.0	3766.8	3690.0	3640.0	3647.7	3643.8	3640.0	3640.0
22.5°	4235.8	4158.9	3989.8	3836.0	3693.8	3613.1	3567.0	3578.5	3574.7	3574.7	3578.5
25°	4278.1	4178.1	3974.4	3789.9	3624.6	3536.2	3486.2	3493.9	3493.9	3493.9	3493.9
27.5°	4335.7	4216.6	3970.6	3747.6	3555.4	3455.5	3394.0	3394.0	3378.6	3382.5	3386.3
30°	4424.1	4289.6	3978.2	3709.2	3482.4	3355.6	3282.5	3271.0	3267.2	3274.8	3278.7
32.5°	4531.7	4389.5	4024.4	3682.3	3405.5	3244.1	3151.8	3148.0	3136.5	3136.5	3136.5
35°	4666.3	4485.6	4066.6	3678.4	3328.7	3124.9	3025.0	3013.5	2986.6	2975.0	2975.0
37.5°	4839.2	4635.5	4116.6	3651.5	3263.3	3009.6	2890.5	2852.0	2821.3	2817.4	2817.4
40°	5050.6	4804.6	4189.6	3620.8	3194.1	2890.5	2732.9	2667.5	2671.4	2686.8	2686.8
42.5°	5300.5	5012.2	4281.9	3605.4	3094.2	2767.5	2548.4	2471.5	2498.4	2513.8	2517.6
45°	5592.6	5258.2	4385.7	3586.2	3001.9	2629.1	2352.4	2256.3	2267.8	2271.6	2275.5
47.5°	5930.8	5531.1	4493.3	3570.8	2898.2	2456.1	2137.1	2010.3	2006.4	1983.4	1991.0
50°	6284.5	5819.4	4604.8	3543.9	2771.3	2252.4	1910.3	1760.4	1729.7	1695.1	1698.9
52.5°	6661.2	6115.3	4708.5	3501.6	2613.7	2044.9	1695.1	1533.6	1472.1	1433.7	1441.4
55°	7076.3	6419.0	4808.5	3436.3	2448.4	1837.3	1502.9	1337.6	1260.7	1230.0	1233.8
57.5°	7456.8	6711.1	4881.5	3355.6	2267.8	1649.0	1333.8	1172.3	1122.4	1118.5	1122.4
60°	7825.8	6957.1	4912.3	3244.1	2083.3	1476.0	1176.2	1053.2	1018.6	1037.8	1041.6
62.5°	8137.1	7114.7	4896.9	3094.2	1895.0	1310.7	1049.3	960.9	937.9	976.3	980.1
65°	8317.8	7164.7	4789.3	2878.9	1691.2	1149.3	930.2	834.1	822.6	845.6	857.1
67.5°	8079.5	6853.3	4497.1	2583.0	1464.5	999.4	814.9	738.0	718.8	738.0	738.0
70°	7160.8	5938.5	3805.3	2114.0	1214.6	853.3	707.2	653.4	638.1	653.4	649.6
72.5°	5965.4	4939.2	2998.1	1649.0	957.1	718.8	615.0	565.0	549.7	534.3	526.6
75°	4627.8	3751.5	2175.5	1210.8	722.6	576.6	515.1	468.9	430.5	445.9	438.2
77.5°	3390.2	2632.9	1541.3	837.9	518.9	445.9	403.6	369.0	342.1	372.8	369.0
80°	2183.2	1702.8	1030.1	561.2	357.5	311.3	296.0	276.7	303.7	395.9	403.6
82.5°	1333.8	1080.1	615.0	365.2	234.5	207.6	192.2	192.2	311.3	342.1	345.9
85°	595.8	572.7	334.4	188.3	130.7	119.2	107.6	138.4	126.8	92.2	96.1
87.5°	96.1	99.9	73.0	65.3	50.0	50.0	38.4	26.9	19.2	11.5	11.5
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)