

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: P836176

Luminaire Tested: **ARCH3-150-727-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20576 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - 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



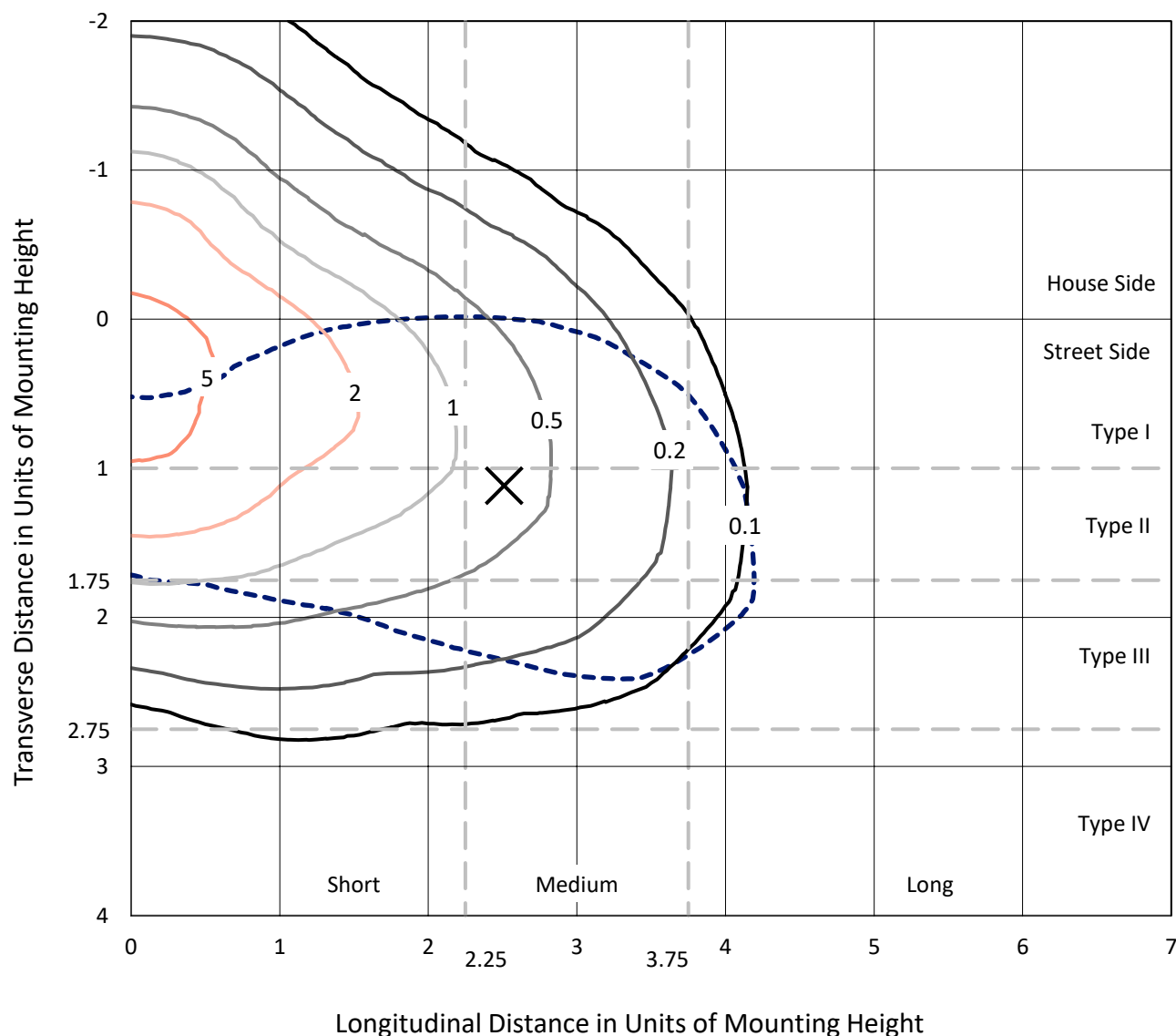
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

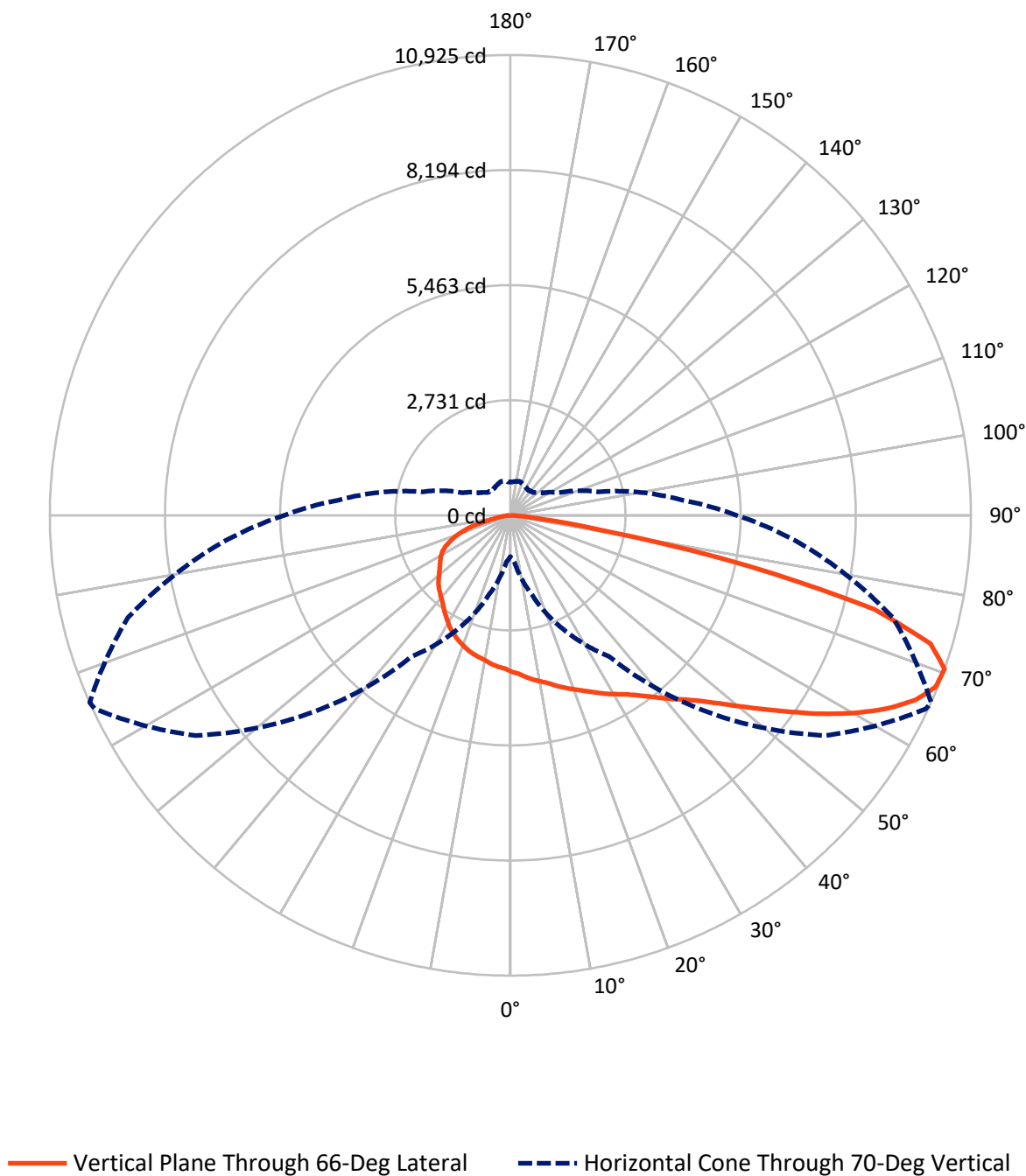


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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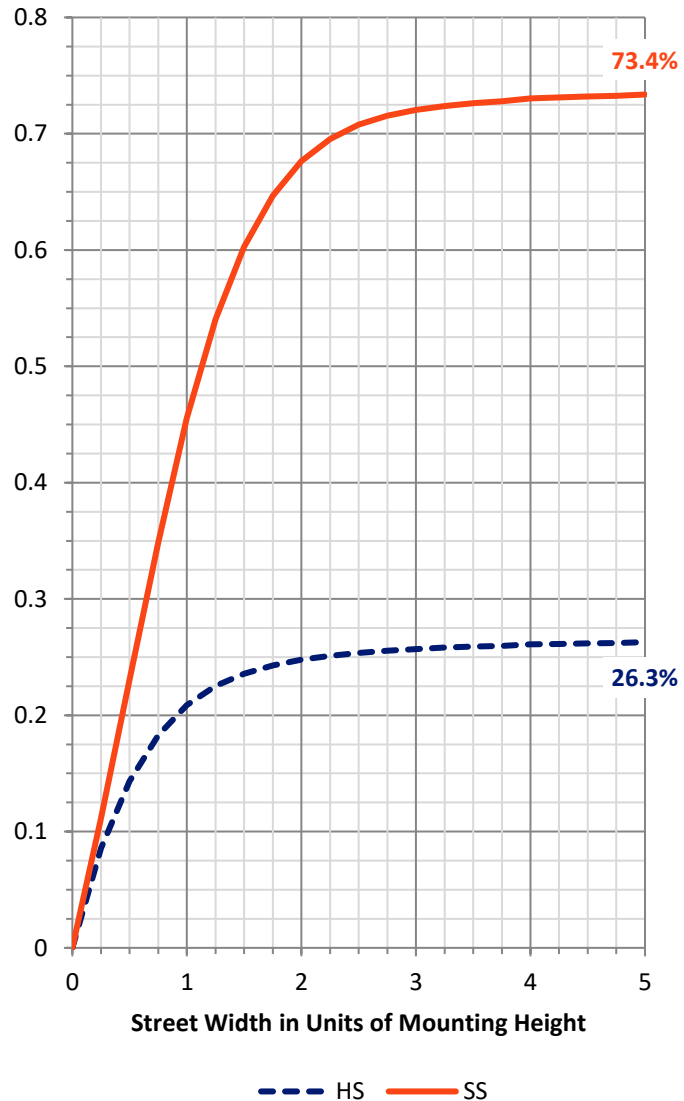
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5452.2	0.0	5452.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	15123.8	0.0	15123.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	20576.0	0.0	20576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.8	1.7
10°-20°	1070.4	5.2
20°-30°	1794.3	8.7
30°-40°	2686.6	13.1
40°-50°	3592.0	17.5
50°-60°	4193.8	20.4
60°-70°	4170.1	20.3
70°-80°	2468.7	12.0
80°-90°	243.3	1.2
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°	20576.0	100.0
0°-180°	20576.0	100.0

Coefficient of Utilization



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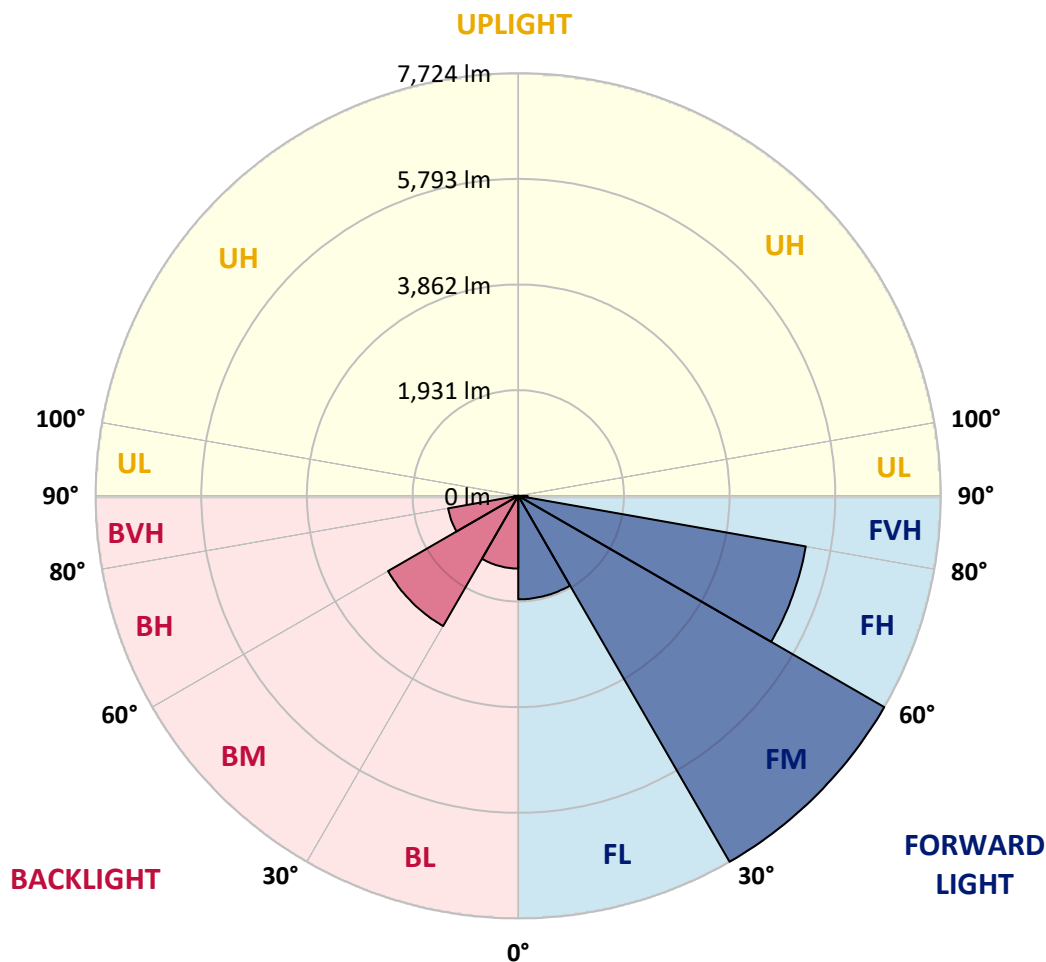
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1892.4	9.2			
FM	(30°-60°)	7724.0	37.5			
FH	(60°-80°)	5336.4	25.9			G3/7500
FVH	(80°-90°)	171.0	0.8			G2/225
BL	(0°-30°)	1329.0	6.5	B3/2500		
BM	(30°-60°)	2748.5	13.4	B3/5000		
BH	(60°-80°)	1302.4	6.3	B3/2500		G3/2500
BVH	(80°-90°)	72.3	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5
2.5°	3850.0	3844.0	3840.9	3828.8	3801.5	3813.6	3786.3	3768.1	3765.1	3722.6	3698.3
5°	4007.8	4004.8	3998.7	3980.5	3938.0	3944.1	3898.6	3865.2	3856.1	3789.3	3737.8
7.5°	4141.3	4135.2	4132.2	4107.9	4062.4	4059.4	4004.8	3956.2	3941.0	3850.0	3771.1
10°	4244.4	4235.3	4241.4	4217.1	4168.6	4159.5	4089.7	4026.0	4010.8	3895.5	3786.3
12.5°	4332.4	4326.3	4335.4	4314.2	4274.8	4265.7	4195.9	4114.0	4095.8	3962.3	3819.7
15°	4429.5	4408.3	4426.5	4417.4	4390.1	4387.0	4323.3	4232.3	4208.0	4047.2	3871.3
17.5°	4481.1	4468.9	4490.2	4493.2	4481.1	4502.3	4441.6	4332.4	4311.2	4126.1	3916.8
20°	4517.5	4499.3	4523.6	4541.8	4550.9	4593.3	4544.8	4438.6	4414.3	4202.0	3959.2
22.5°	4641.9	4602.4	4605.5	4617.6	4623.7	4684.3	4654.0	4550.9	4526.6	4296.0	4010.8
25°	4954.4	4875.5	4823.9	4787.5	4745.0	4796.6	4778.4	4678.3	4657.0	4408.3	4074.5
27.5°	5439.8	5339.7	5236.5	5130.3	4963.5	4942.2	4911.9	4820.9	4796.6	4520.5	4138.2
30°	5992.0	5891.8	5770.5	5600.6	5288.1	5124.3	5054.5	4954.4	4927.1	4620.6	4198.9
32.5°	6541.1	6453.1	6331.8	6125.5	5679.5	5345.7	5197.1	5093.9	5066.6	4729.9	4271.7
35°	6968.9	6914.3	6835.4	6577.5	6067.8	5606.7	5403.4	5279.0	5248.7	4902.8	4405.2
37.5°	7314.7	7275.3	7208.6	6938.5	6350.0	5867.6	5640.0	5497.4	5464.1	5090.9	4547.8
40°	7824.4	7721.3	7666.7	7275.3	6595.7	6104.2	5907.0	5758.4	5721.9	5291.1	4663.1
42.5°	8258.3	8182.4	8115.7	7575.7	6829.3	6307.5	6158.8	6022.3	5973.8	5488.3	4787.5
45°	8331.1	8361.4	8328.1	7724.3	7199.5	6507.7	6413.7	6325.7	6280.2	5755.3	4975.6
47.5°	8334.1	8334.1	8136.9	7809.3	7657.6	6732.2	6686.7	6717.1	6668.5	6095.1	5200.1
50°	8115.7	8155.1	8052.0	7830.5	7778.9	6956.7	7020.5	7184.3	7135.7	6456.1	5442.8
52.5°	7663.6	7794.1	7791.1	7797.1	7603.0	7147.9	7372.4	7745.6	7663.6	6862.7	5700.7
55°	6865.7	7126.6	7360.3	7560.5	7451.3	7263.2	7803.2	8343.2	8258.3	7317.8	5961.6
57.5°	6183.1	6350.0	6641.2	7208.6	7272.3	7363.3	8206.7	8968.2	8892.4	7821.4	6234.7
60°	5403.4	5634.0	5925.2	6732.2	7053.8	7493.7	8649.7	9578.0	9505.2	8331.1	6498.6
62.5°	4205.0	4502.3	5084.8	6001.1	6735.3	7575.7	8998.6	10115.0	10081.7	8813.5	6735.3
65°	2930.8	3194.7	4010.8	5103.0	6228.6	7539.3	9277.7	10594.4	10564.1	9207.9	6902.1
67.5°	1711.1	2017.5	2939.9	4107.9	5333.6	7287.4	9368.7	10876.5	10876.5	9447.6	6947.6
70°	976.9	1119.5	1938.7	2994.5	4089.7	6592.7	9113.8	10873.5	10925.1	9393.0	6759.5
72.5°	682.6	746.3	1304.6	2014.5	2773.0	5333.6	8446.4	10348.6	10418.4	8877.2	6116.4
75°	530.9	576.4	919.3	1374.4	1747.5	3622.5	6987.1	8725.5	8910.6	7566.6	4945.3
77.5°	403.5	436.9	537.0	858.6	1119.5	2081.3	4611.5	5721.9	5734.1	4632.8	2651.6
80°	294.3	327.7	358.0	524.9	594.6	973.9	1741.5	2390.7	2324.0	2242.1	1435.0
82.5°	176.0	209.3	218.4	285.2	291.3	415.6	609.8	770.6	740.3	986.0	673.5
85°	75.8	106.2	112.3	130.5	124.4	169.9	242.7	203.3	182.0	209.3	145.6
87.5°	18.2	30.3	30.3	33.4	27.3	42.5	45.5	33.4	30.3	36.4	36.4
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°	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5
2.5°	3692.3	3683.2	3686.2	3634.6	3619.4	3604.3	3595.2	3589.1	3583.0	3592.1	3601.2
5°	3719.6	3698.3	3674.1	3598.2	3567.9	3534.5	3510.2	3489.0	3479.9	3479.9	3489.0
7.5°	3740.8	3704.4	3652.8	3552.7	3498.1	3452.6	3413.1	3385.8	3370.7	3370.7	3379.8
10°	3743.8	3692.3	3610.3	3489.0	3416.2	3349.4	3303.9	3273.6	3252.3	3252.3	3258.4
12.5°	3762.0	3692.3	3586.1	3440.4	3349.4	3267.5	3212.9	3167.4	3158.3	3158.3	3164.4
15°	3792.4	3707.4	3570.9	3398.0	3288.8	3194.7	3134.0	3085.5	3067.3	3079.4	3082.4
17.5°	3819.7	3716.5	3543.6	3343.4	3212.9	3109.8	3043.0	3000.5	2976.3	3003.6	3003.6
20°	3837.9	3716.5	3504.2	3273.6	3131.0	3015.7	2952.0	2900.4	2882.2	2915.6	2918.6
22.5°	3865.2	3713.5	3461.7	3203.8	3043.0	2921.7	2857.9	2818.5	2809.4	2845.8	2857.9
25°	3895.5	3719.6	3416.2	3124.9	2945.9	2827.6	2779.1	2760.9	2766.9	2812.4	2827.6
27.5°	3928.9	3731.7	3370.7	3036.9	2839.7	2733.5	2706.2	2715.3	2739.6	2797.3	2815.5
30°	3959.2	3734.7	3307.0	2933.8	2718.4	2618.3	2630.4	2669.8	2706.2	2763.9	2785.1
32.5°	3998.7	3737.8	3240.2	2821.5	2587.9	2515.1	2569.7	2633.4	2669.8	2724.4	2748.7
35°	4095.8	3789.3	3188.6	2712.3	2466.6	2427.1	2518.1	2600.1	2621.3	2669.8	2691.1
37.5°	4208.0	3874.3	3161.3	2600.1	2348.2	2339.1	2454.4	2536.3	2542.4	2572.8	2594.0
40°	4277.8	3910.7	3131.0	2506.0	2242.1	2248.1	2366.4	2430.2	2418.0	2439.3	2454.4
42.5°	4347.6	3922.8	3067.3	2427.1	2141.9	2148.0	2239.0	2284.5	2290.6	2336.1	2357.3
45°	4465.9	3956.2	2997.5	2354.3	2050.9	2029.7	2084.3	2145.0	2223.9	2311.8	2336.1
47.5°	4623.7	4026.0	2924.7	2266.3	1962.9	1893.2	1914.4	2020.6	2102.5	2184.4	2199.6
50°	4784.5	4095.8	2857.9	2160.1	1875.0	1747.5	1756.6	1853.7	1920.5	1984.2	1993.3
52.5°	4942.2	4156.4	2800.3	2060.0	1774.8	1574.6	1611.0	1711.1	1756.6	1787.0	1796.1
55°	5100.0	4208.0	2748.7	1975.1	1659.5	1438.1	1471.4	1565.5	1611.0	1626.2	1632.2
57.5°	5263.8	4268.7	2709.3	1902.3	1529.1	1316.7	1338.0	1404.7	1447.2	1465.4	1459.3
60°	5400.4	4320.3	2688.0	1826.4	1398.6	1204.5	1198.4	1259.1	1319.7	1338.0	1331.9
62.5°	5506.5	4353.7	2654.7	1729.3	1283.3	1092.2	1061.9	1140.7	1204.5	1216.6	1225.7
65°	5564.2	4356.7	2572.8	1604.9	1165.0	970.8	949.6	1028.5	1067.9	1080.1	1080.1
67.5°	5555.1	4308.1	2412.0	1438.1	1055.8	861.6	843.4	892.0	949.6	958.7	949.6
70°	5367.0	4107.9	2154.1	1262.1	925.3	764.5	731.2	779.7	834.3	801.0	785.8
72.5°	4833.0	3589.1	1774.8	1067.9	779.7	643.2	628.0	676.6	679.6	685.7	670.5
75°	3813.6	2672.9	1328.9	831.3	631.1	540.0	537.0	527.9	540.0	564.3	546.1
77.5°	2002.4	1334.9	719.0	509.7	458.1	433.8	412.6	409.6	446.0	461.2	443.0
80°	1086.1	749.4	412.6	306.4	279.1	282.2	309.5	303.4	342.8	351.9	336.8
82.5°	473.3	355.0	203.3	185.1	185.1	182.0	191.1	212.4	254.8	254.8	203.3
85°	103.2	88.0	78.9	91.0	103.2	103.2	103.2	103.2	72.8	39.4	27.3
87.5°	33.4	33.4	33.4	36.4	39.4	39.4	33.4	24.3	15.2	3.0	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)