

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: P841076

Luminaire Tested: **ARCH4-130-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19346 lumens
Efficiency: N/A
Efficacy: 146.6 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

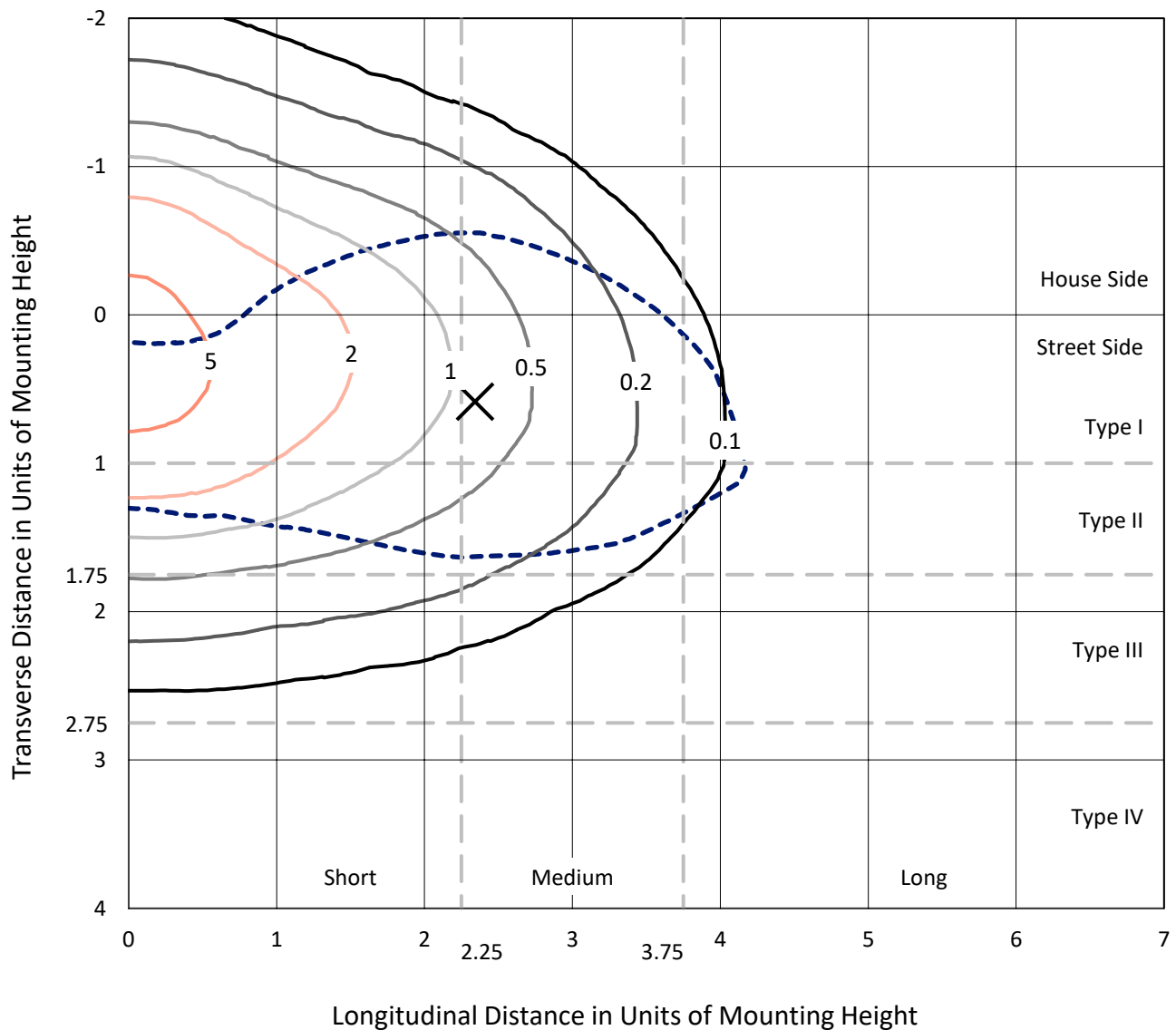
Input Watts (W): 132
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

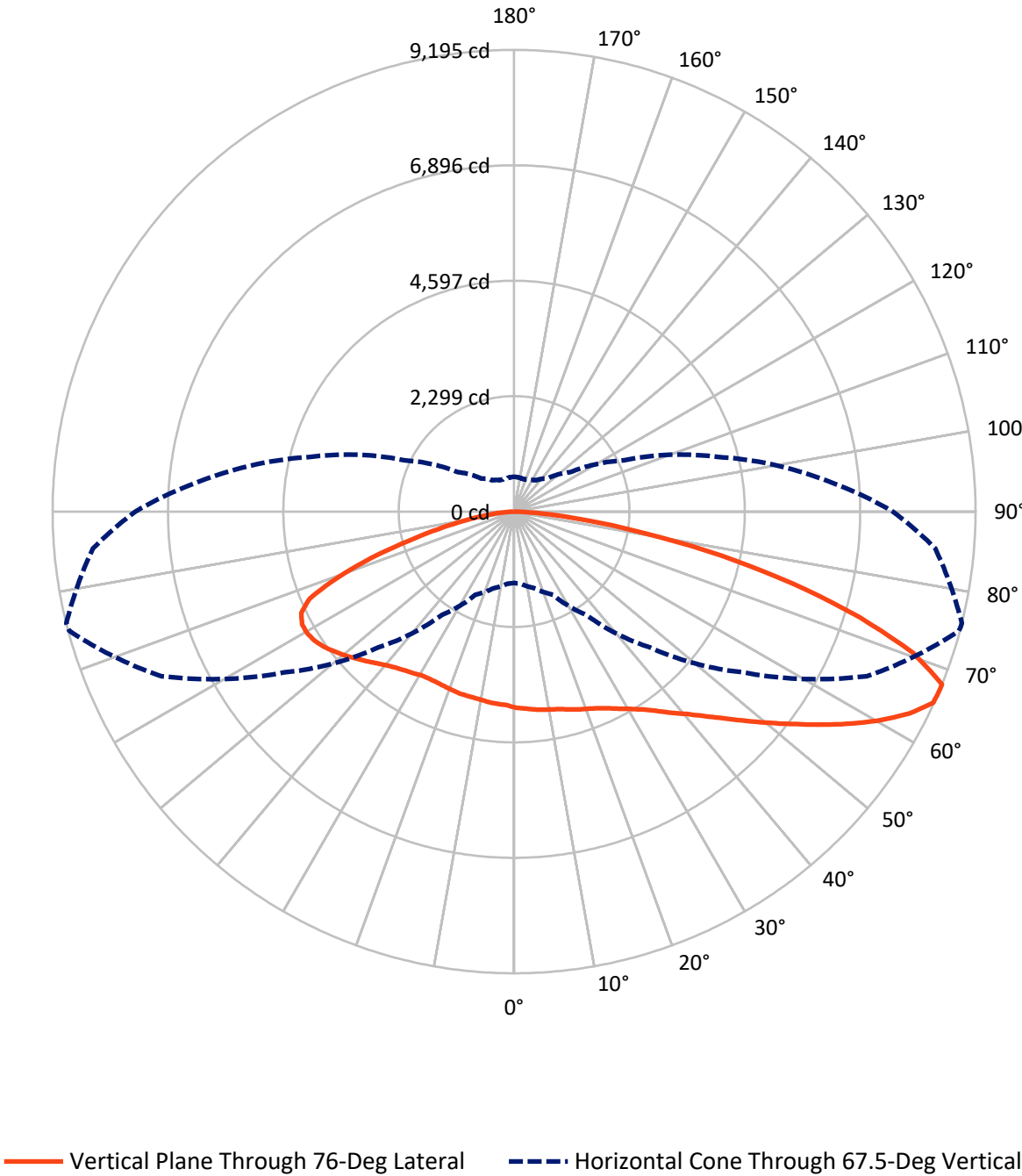
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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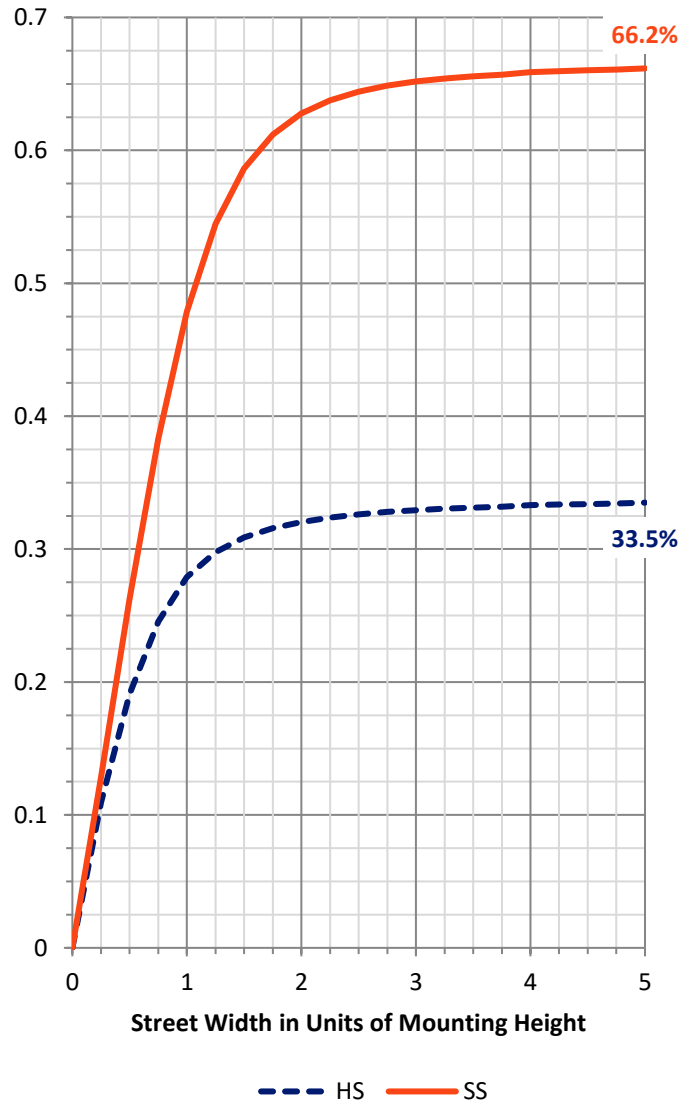
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6537.1	0.0	6537.1
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	12808.9	0.0	12808.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	19346.0	0.0	19346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.8	1.9
10°-20°	1152.0	6.0
20°-30°	1957.3	10.1
30°-40°	2785.0	14.4
40°-50°	3517.4	18.2
50°-60°	3808.2	19.7
60°-70°	3542.0	18.3
70°-80°	1902.4	9.8
80°-90°	304.8	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°	19346.0	100.0
0°-180°	19346.0	100.0

Coefficient of Utilization



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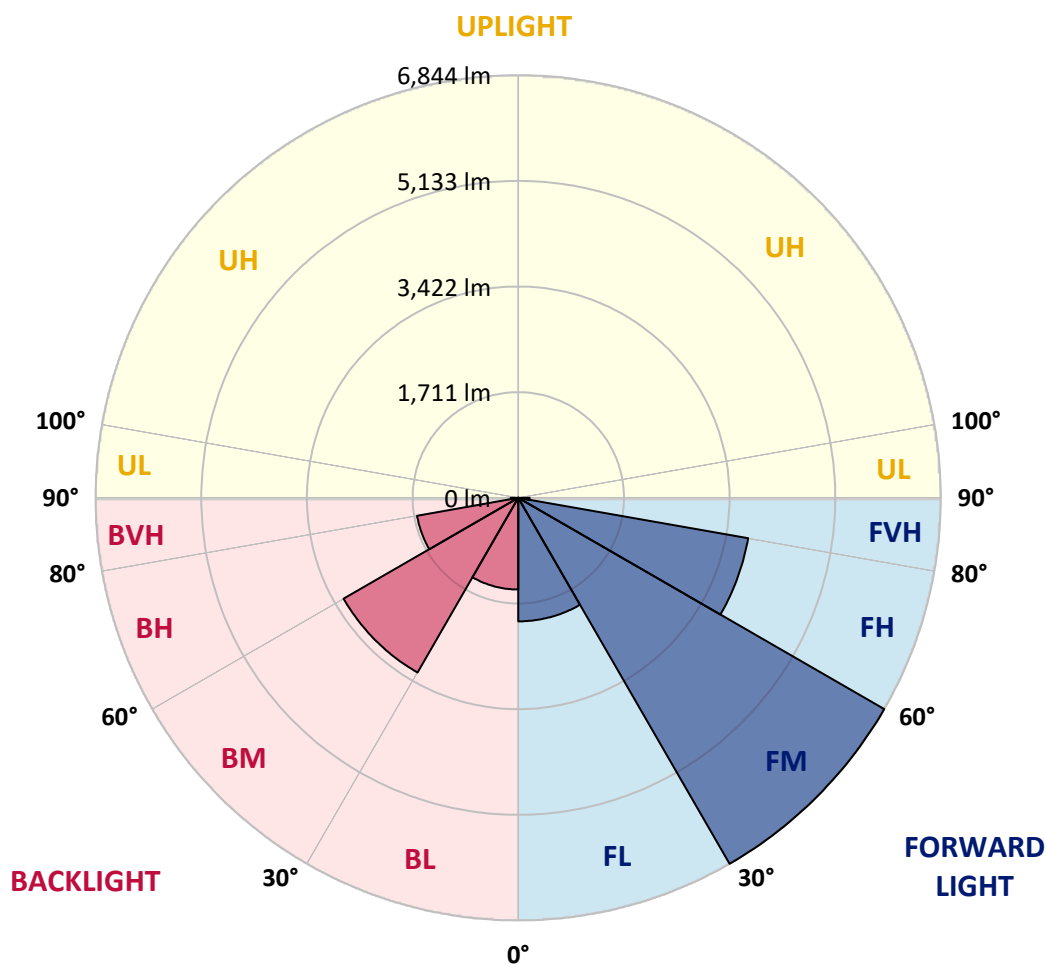
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2000.6	10.3			
FM	(30°-60°)	6843.9	35.4			
FH	(60°-80°)	3780.0	19.5			G2/5000
FVH	(80°-90°)	184.4	1.0			G2/225
BL	(0°-30°)	1485.6	7.7	B3/2500		
BM	(30°-60°)	3266.7	16.9	B3/5000		
BH	(60°-80°)	1664.4	8.6	B3/2500		G3/2500
BVH	(80°-90°)	120.4	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°	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8
2.5°	4026.4	4019.2	3990.5	3994.1	3994.1	3990.5	3947.4	3929.4	3929.4	3925.8	3886.3
5°	4170.0	4159.3	4126.9	4119.8	4105.4	4087.4	4019.2	3979.7	3961.7	3958.1	3904.3
7.5°	4338.9	4324.5	4285.0	4263.4	4227.5	4180.8	4094.6	4033.6	3990.5	3986.9	3911.4
10°	4507.7	4493.3	4446.6	4407.1	4356.8	4281.4	4170.0	4080.3	4012.0	4004.8	3915.0
12.5°	4708.8	4694.4	4637.0	4586.7	4511.3	4410.7	4263.4	4141.3	4047.9	4037.2	3925.8
15°	4920.7	4899.2	4841.7	4784.2	4690.9	4561.6	4385.6	4223.9	4105.4	4087.4	3958.1
17.5°	5096.7	5068.0	5021.3	4963.8	4859.7	4708.8	4507.7	4306.5	4159.3	4144.9	3990.5
20°	5247.6	5226.0	5175.7	5121.9	5010.5	4845.3	4622.6	4389.1	4209.6	4191.6	4015.6
22.5°	5391.3	5362.5	5333.8	5294.3	5172.2	4989.0	4755.5	4489.7	4274.2	4252.7	4047.9
25°	5556.5	5524.1	5513.4	5491.8	5348.2	5161.4	4917.1	4615.4	4364.0	4338.9	4105.4
27.5°	5761.2	5725.3	5703.7	5703.7	5531.3	5337.4	5089.5	4762.7	4468.2	4446.6	4177.2
30°	5976.7	5933.6	5901.3	5901.3	5707.3	5513.4	5258.4	4910.0	4586.7	4561.6	4270.6
32.5°	6167.1	6124.0	6088.1	6084.5	5883.3	5689.4	5434.4	5071.6	4730.4	4698.0	4385.6
35°	6314.3	6274.8	6242.5	6249.7	6059.3	5869.0	5631.9	5287.1	4910.0	4874.0	4536.4
37.5°	6404.1	6389.8	6371.8	6396.9	6221.0	6041.4	5836.6	5495.4	5114.7	5082.4	4723.2
40°	6450.8	6440.0	6511.9	6544.2	6357.4	6195.8	6041.4	5710.9	5337.4	5301.5	4938.7
42.5°	6519.1	6608.9	6637.6	6630.4	6458.0	6314.3	6228.1	5944.4	5599.6	5567.2	5197.3
45°	6274.8	6253.3	6411.3	6497.5	6465.2	6389.8	6404.1	6224.5	5904.9	5872.5	5495.4
47.5°	5948.0	5919.2	6009.0	6221.0	6346.7	6418.5	6562.2	6515.5	6256.9	6228.1	5843.8
50°	5258.4	5297.9	5631.9	5915.7	6163.5	6411.3	6695.1	6828.0	6644.8	6616.0	6217.4
52.5°	4493.3	4532.8	4881.2	5534.9	5940.8	6357.4	6792.0	7140.4	7065.0	7032.7	6616.0
55°	3936.6	4022.8	4417.9	4892.0	5624.7	6188.6	6849.5	7460.1	7517.6	7488.8	7050.7
57.5°	3383.5	3448.1	3746.2	4166.5	5193.7	5894.1	6845.9	7758.2	7991.7	7963.0	7492.4
60°	2733.3	2816.0	3053.0	3505.6	4619.0	5542.1	6745.4	7991.7	8447.9	8426.3	7919.9
62.5°	2288.0	2313.1	2481.9	2873.4	3879.1	5096.7	6519.1	8117.4	8860.9	8846.5	8304.2
65°	1842.6	1846.2	2000.6	2327.5	3164.4	4543.6	6134.7	8070.7	9173.4	9180.6	8580.7
67.5°	1422.3	1440.3	1580.4	1828.2	2514.2	3825.2	5585.2	7754.6	9177.0	9194.9	8422.7
70°	984.1	998.5	1210.4	1451.1	1943.1	3049.4	4841.7	6917.8	8422.7	8437.1	7549.9
72.5°	693.2	700.4	926.7	1160.1	1519.3	2298.7	3652.8	5721.7	7180.0	7190.7	6350.3
75°	517.2	524.4	653.7	880.0	1163.7	1591.2	2496.3	4382.0	5736.1	5736.1	5014.1
77.5°	366.4	370.0	423.8	607.0	775.8	1073.9	1501.4	2869.8	4209.6	4216.7	3652.8
80°	247.8	251.4	276.6	409.5	484.9	581.9	815.3	1505.0	2654.3	2665.1	2320.3
82.5°	129.3	136.5	154.4	208.3	244.2	323.3	420.2	765.0	1469.0	1497.8	1393.6
85°	50.3	50.3	57.5	68.2	89.8	125.7	194.0	290.9	664.5	686.0	614.2
87.5°	18.0	18.0	21.6	21.6	25.1	28.7	32.3	43.1	75.4	75.4	71.8
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°	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8	3907.8
2.5°	3871.9	3871.9	3854.0	3861.2	3857.6	3850.4	3843.2	3854.0	3843.2	3818.1	3814.5
5°	3879.1	3871.9	3843.2	3839.6	3828.8	3814.5	3796.5	3803.7	3785.7	3764.2	3760.6
7.5°	3882.7	3868.3	3828.8	3814.5	3792.9	3764.2	3735.4	3735.4	3710.3	3688.8	3685.2
10°	3875.5	3857.6	3803.7	3775.0	3735.4	3692.3	3652.8	3642.1	3613.3	3588.2	3588.2
12.5°	3879.1	3854.0	3785.7	3739.0	3685.2	3631.3	3581.0	3566.6	3541.5	3516.3	3512.8
15°	3900.7	3864.7	3778.5	3717.5	3638.5	3577.4	3523.5	3512.8	3491.2	3473.2	3473.2
17.5°	3922.2	3875.5	3767.8	3681.6	3584.6	3516.3	3466.1	3466.1	3451.7	3440.9	3440.9
20°	3933.0	3879.1	3746.2	3631.3	3519.9	3448.1	3401.4	3408.6	3405.0	3401.4	3401.4
22.5°	3958.1	3886.3	3728.3	3584.6	3451.7	3376.3	3333.2	3343.9	3340.3	3340.3	3343.9
25°	3997.6	3904.3	3713.9	3541.5	3387.0	3304.4	3257.7	3264.9	3264.9	3264.9	3264.9
27.5°	4051.5	3940.2	3710.3	3502.0	3322.4	3229.0	3171.5	3171.5	3157.2	3160.8	3164.4
30°	4134.1	4008.4	3717.5	3466.1	3254.1	3135.6	3067.4	3056.6	3053.0	3060.2	3063.8
32.5°	4234.7	4101.8	3760.6	3440.9	3182.3	3031.5	2945.3	2941.7	2930.9	2930.9	2930.9
35°	4360.4	4191.6	3800.1	3437.3	3110.5	2920.1	2826.7	2816.0	2790.8	2780.0	2780.0
37.5°	4522.0	4331.7	3846.8	3412.2	3049.4	2812.4	2701.0	2665.1	2636.4	2632.8	2632.8
40°	4719.6	4489.7	3915.0	3383.5	2984.8	2701.0	2553.8	2492.7	2496.3	2510.6	2510.6
42.5°	4953.1	4683.7	4001.2	3369.1	2891.4	2586.1	2381.3	2309.5	2334.7	2349.0	2352.6
45°	5226.0	4913.5	4098.2	3351.1	2805.2	2456.8	2198.2	2108.4	2119.1	2122.7	2126.3
47.5°	5542.1	5168.6	4198.8	3336.8	2708.2	2295.1	1997.0	1878.5	1874.9	1853.4	1860.5
50°	5872.5	5437.9	4302.9	3311.6	2589.7	2104.8	1785.1	1645.0	1616.3	1584.0	1587.6
52.5°	6224.5	5714.5	4399.9	3272.1	2442.4	1910.8	1584.0	1433.1	1375.6	1339.7	1346.9
55°	6612.5	5998.3	4493.3	3211.0	2288.0	1716.9	1404.4	1249.9	1178.1	1149.4	1153.0
57.5°	6968.0	6271.2	4561.6	3135.6	2119.1	1540.9	1246.3	1095.5	1048.8	1045.2	1048.8
60°	7312.9	6501.1	4590.3	3031.5	1946.7	1379.2	1099.1	984.1	951.8	969.8	973.4
62.5°	7603.8	6648.4	4575.9	2891.4	1770.7	1224.8	980.6	897.9	876.4	912.3	915.9
65°	7772.6	6695.1	4475.3	2690.2	1580.4	1073.9	869.2	779.4	768.6	790.2	801.0
67.5°	7549.9	6404.1	4202.4	2413.7	1368.5	933.9	761.5	689.6	671.7	689.6	689.6
70°	6691.5	5549.3	3555.9	1975.5	1135.0	797.4	660.9	610.6	596.2	610.6	607.0
72.5°	5574.4	4615.4	2801.6	1540.9	894.4	671.7	574.7	528.0	513.6	499.3	492.1
75°	4324.5	3505.6	2032.9	1131.4	675.3	538.8	481.3	438.2	402.3	416.6	409.5
77.5°	3167.9	2460.4	1440.3	783.0	484.9	416.6	377.1	344.8	319.7	348.4	344.8
80°	2040.1	1591.2	962.6	524.4	334.0	290.9	276.6	258.6	283.8	370.0	377.1
82.5°	1246.3	1009.3	574.7	341.2	219.1	194.0	179.6	179.6	290.9	319.7	323.3
85°	556.7	535.2	312.5	176.0	122.1	111.3	100.6	129.3	118.5	86.2	89.8
87.5°	89.8	93.4	68.2	61.1	46.7	46.7	35.9	25.1	18.0	10.8	10.8
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)