

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: P841506

Luminaire Tested: **ARCH4-190-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841506
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: ARCH4-190-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26156 lumens
Efficiency: N/A
Efficacy: 137.7 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): 190
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



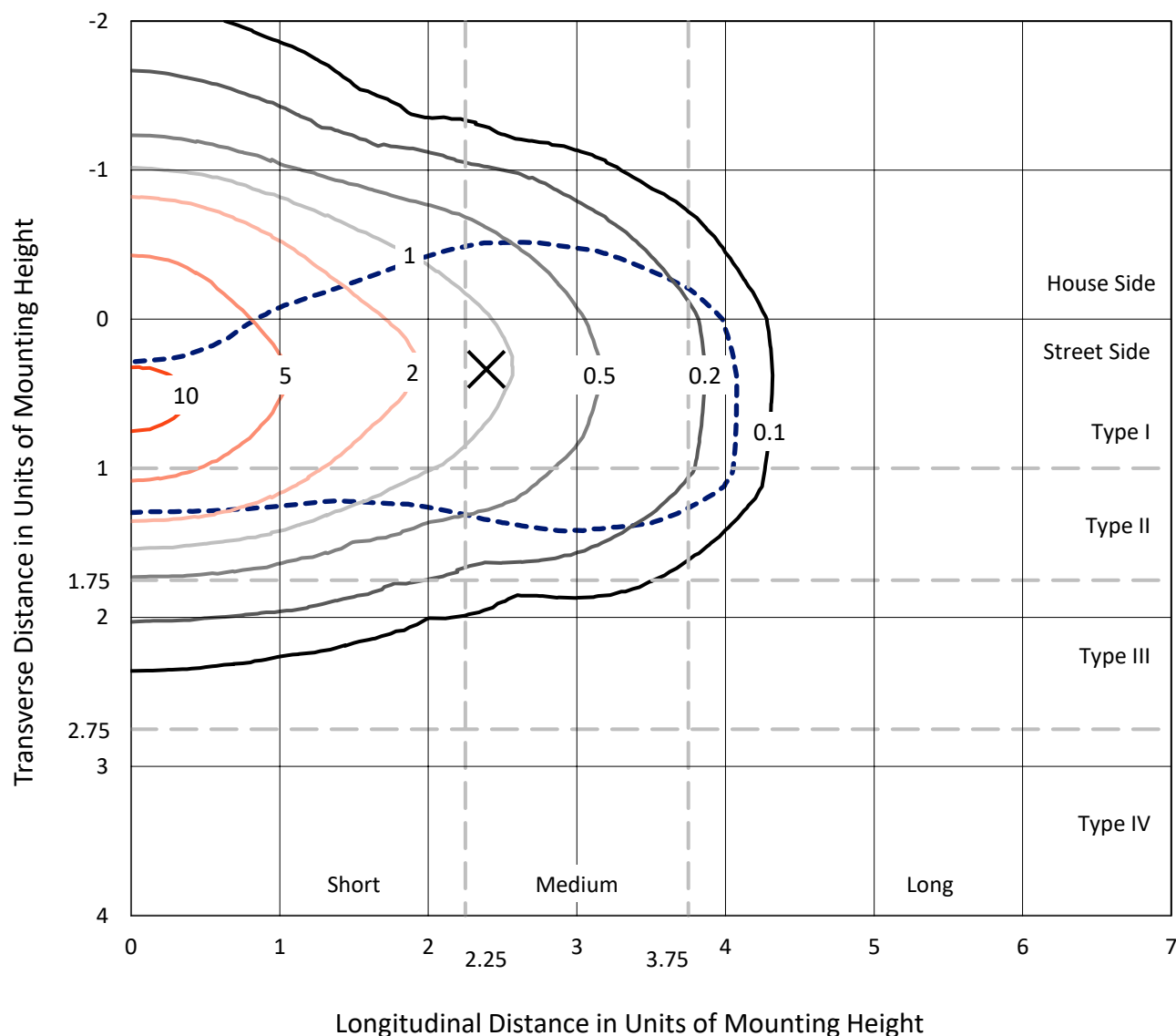
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

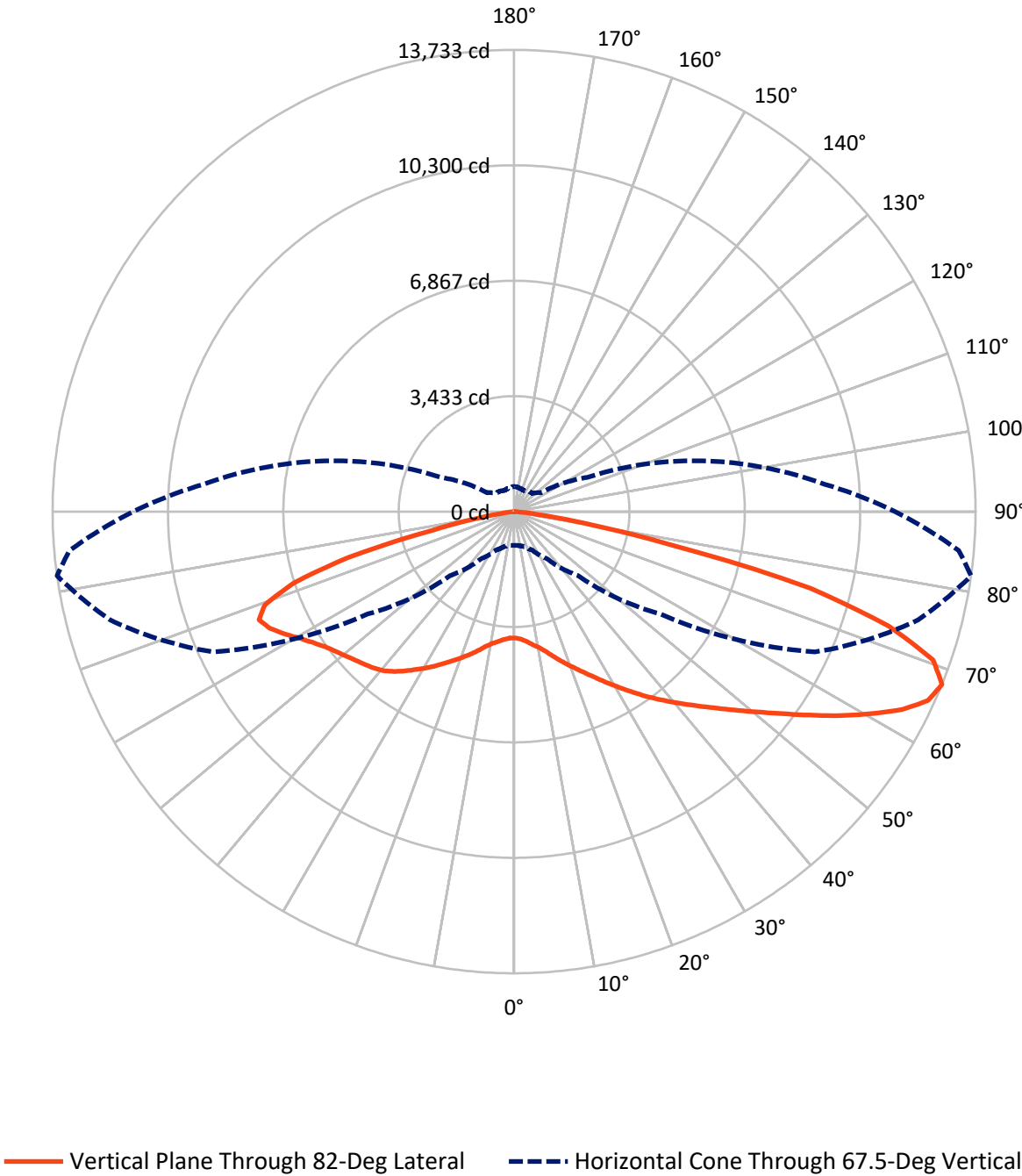
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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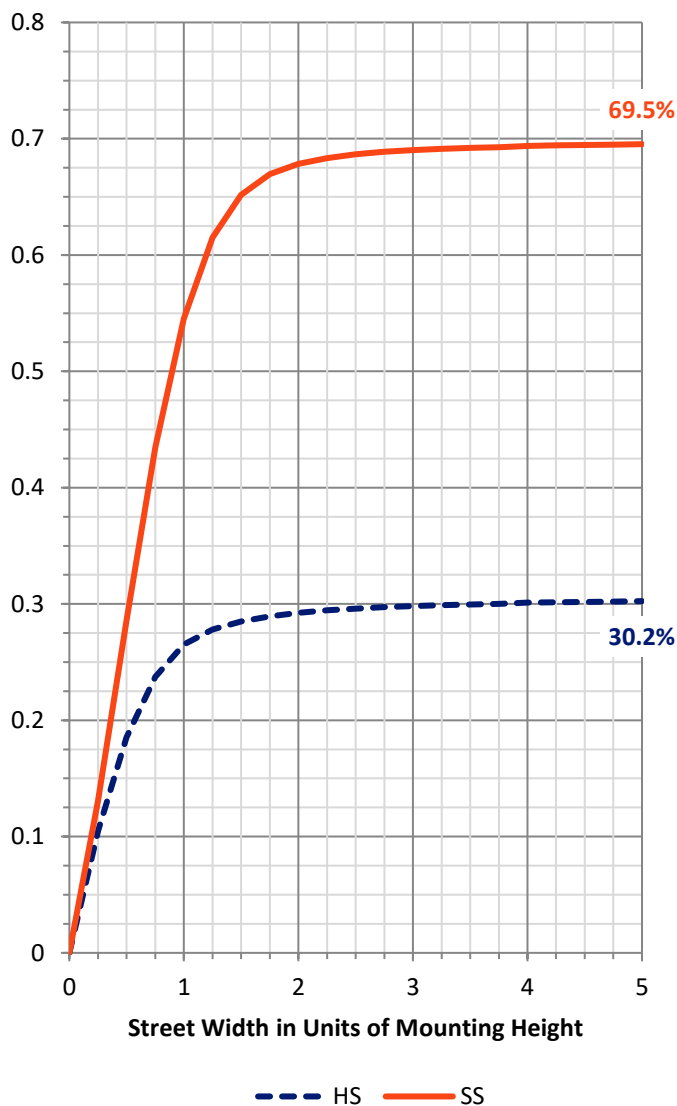
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7965.6	0.0	7965.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	18190.4	0.0	18190.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	26156.0	0.0	26156.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.6	1.5
10°-20°	1399.6	5.4
20°-30°	2813.0	10.8
30°-40°	4418.8	16.9
40°-50°	5382.9	20.6
50°-60°	5086.2	19.4
60°-70°	4200.0	16.1
70°-80°	2287.1	8.7
80°-90°	179.8	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°	26156.0	100.0
0°-180°	26156.0	100.0

Coefficient of Utilization



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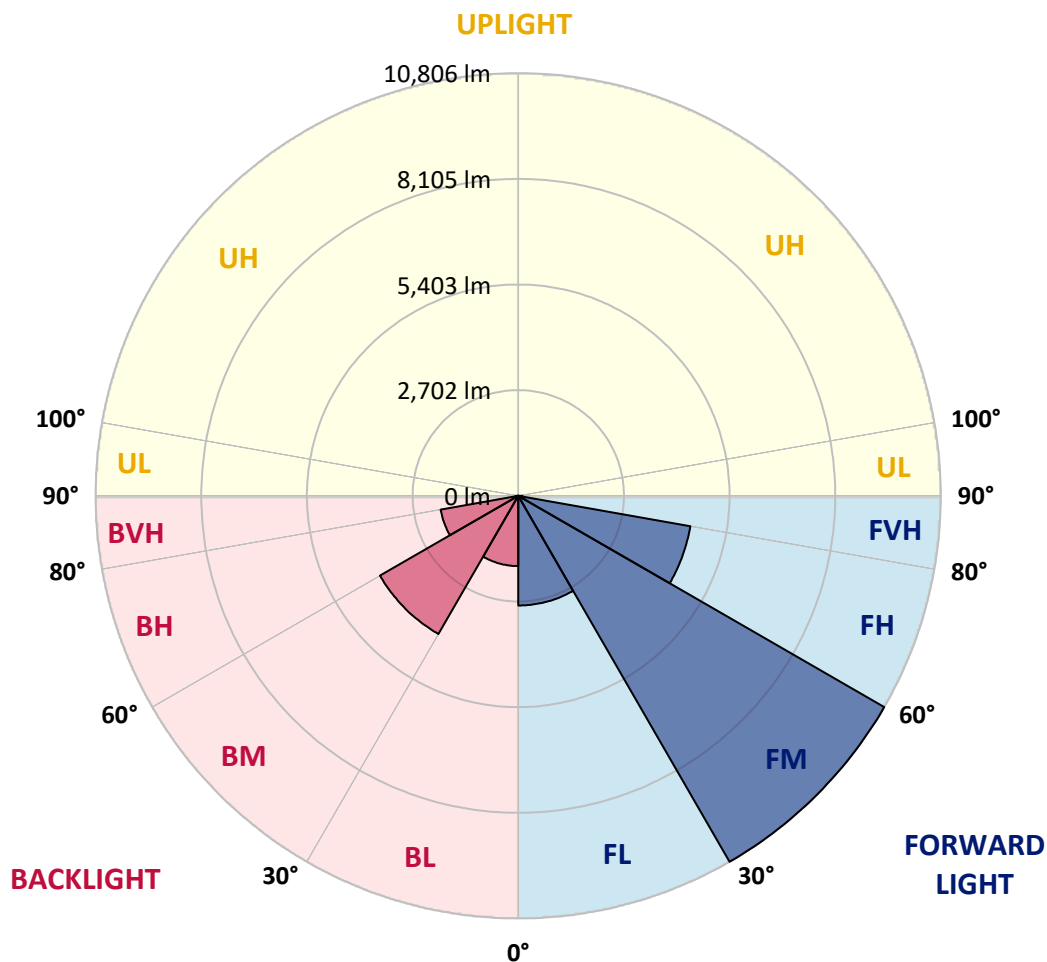
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2804.9	10.7			
FM	(30°-60°)	10806.2	41.3			
FH	(60°-80°)	4471.0	17.1			G2/5000
FVH	(80°-90°)	108.4	0.4			G2/225
BL	(0°-30°)	1796.3	6.9	B3/2500		
BM	(30°-60°)	4081.7	15.6	B3/5000		
BH	(60°-80°)	2016.1	7.7	B3/2500		G3/2500
BVH	(80°-90°)	71.4	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°	3759.9	3759.9	3759.9	3759.9	3759.9	3759.9	3759.9	3759.9	3759.9	3759.9	3759.9
2.5°	3930.8	3930.8	3961.2	3961.2	3934.6	3892.8	3881.4	3835.9	3794.1	3794.1	3797.9
5°	4306.8	4303.0	4325.8	4295.4	4230.8	4147.3	4090.3	3991.6	3908.0	3881.4	3877.6
7.5°	4766.4	4762.6	4773.9	4724.6	4603.0	4466.3	4352.4	4192.9	4056.1	3999.2	3984.0
10°	5279.1	5275.3	5263.9	5180.3	5017.0	4804.3	4633.4	4413.1	4208.1	4116.9	4097.9
12.5°	5867.7	5860.1	5833.6	5712.0	5488.0	5214.5	4967.6	4682.8	4409.4	4284.0	4242.2
15°	6524.8	6513.4	6464.0	6315.9	6015.9	5670.3	5351.2	4986.6	4652.4	4489.1	4432.1
17.5°	7216.0	7216.0	7140.0	6919.8	6585.5	6156.4	5761.4	5298.1	4906.9	4705.6	4637.2
20°	7918.6	7914.8	7819.9	7554.0	7159.0	6665.3	6164.0	5655.1	5168.9	4925.9	4842.3
22.5°	8659.2	8651.6	8533.9	8230.0	7759.1	7200.8	6615.9	6008.3	5457.6	5165.1	5058.8
25°	9509.9	9498.5	9354.2	8982.0	8423.7	7793.3	7124.8	6422.2	5788.0	5431.0	5305.7
27.5°	10413.8	10398.6	10227.7	9794.8	9183.3	8423.7	7686.9	6900.8	6152.6	5727.2	5586.7
30°	11219.0	11207.6	11021.5	10577.1	9874.5	9050.4	8222.4	7379.3	6536.2	6042.4	5867.7
32.5°	11826.6	11826.6	11659.5	11222.8	10493.6	9650.4	8761.7	7831.2	6934.9	6380.5	6175.4
35°	12195.0	12206.4	12062.1	11712.7	11025.3	10216.3	9320.0	8363.0	7360.3	6741.3	6521.0
37.5°	12248.2	12286.2	12202.6	11967.2	11393.7	10687.3	9866.9	8875.7	7800.9	7105.9	6859.0
40°	12001.3	12027.9	12031.7	11940.6	11545.6	11025.3	10349.3	9418.8	8268.0	7489.4	7204.6
42.5°	11507.6	11526.6	11560.8	11587.4	11435.4	11173.4	10717.6	9923.9	8765.5	7880.6	7546.4
45°	10869.6	10865.8	10922.7	11036.7	11029.1	11089.8	10922.7	10383.4	9282.0	8325.0	7926.2
47.5°	9916.3	9897.3	10098.6	10356.8	10486.0	10770.8	10926.5	10744.2	9844.1	8814.9	8359.2
50°	8423.7	8404.7	8845.3	9452.9	9832.7	10265.7	10717.6	10960.7	10432.8	9365.6	8830.1
52.5°	6608.3	6589.3	7147.6	8211.0	9039.0	9669.4	10296.1	11010.1	10991.1	9980.9	9361.8
55°	4914.5	4899.3	5442.4	6593.1	7933.8	8978.2	9779.6	10881.0	11515.2	10687.3	10007.4
57.5°	3463.7	3456.1	3927.0	4880.3	6513.4	8135.1	9282.0	10630.3	11997.5	11454.4	10736.6
60°	2430.6	2419.3	2761.1	3497.9	4925.9	6862.8	8788.3	10296.1	12358.3	12210.2	11511.4
62.5°	1636.9	1629.3	1872.4	2487.6	3497.9	5282.9	8040.1	10072.0	12563.4	12969.8	12293.8
65°	1241.9	1238.1	1348.3	1686.3	2476.2	3794.1	6851.4	10045.4	12590.0	13539.5	12958.4
67.5°	1002.6	1006.4	1067.2	1260.9	1712.8	2696.5	5313.2	9878.3	12449.5	13733.2	13281.2
70°	820.3	820.3	846.9	976.1	1264.7	1819.2	3710.5	9118.7	12058.3	13228.1	12897.6
72.5°	626.7	630.4	714.0	790.0	953.3	1276.1	2377.5	7546.4	11135.4	11663.3	11412.7
75°	497.5	493.7	543.1	649.4	740.6	911.5	1458.4	5412.0	9475.7	9114.9	8955.4
77.5°	357.0	353.2	391.2	482.3	562.1	645.6	869.7	2730.7	5153.7	4736.0	4618.2
80°	243.1	235.5	269.7	334.2	372.2	379.8	425.4	1048.2	2248.4	2119.2	2092.6
82.5°	125.3	125.3	144.3	189.9	193.7	197.5	189.9	338.0	744.4	695.0	664.6
85°	49.4	49.4	53.2	64.6	64.6	68.4	68.4	87.4	79.8	76.0	72.2
87.5°	3.8	3.8	7.6	7.6	11.4	11.4	11.4	15.2	19.0	19.0	19.0
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°	3759.9	3759.9	3759.9	3759.9	3759.9	3759.9	3759.9	3759.9	3759.9	3759.9	3759.9
2.5°	3790.3	3775.1	3725.7	3714.3	3706.7	3695.3	3699.1	3672.6	3661.2	3665.0	3649.8
5°	3858.7	3832.1	3771.3	3744.7	3737.1	3725.7	3737.1	3718.1	3699.1	3706.7	3699.1
7.5°	3953.6	3915.6	3839.7	3813.1	3809.3	3797.9	3813.1	3797.9	3782.7	3790.3	3775.1
10°	4052.3	4003.0	3919.4	3892.8	3892.8	3889.0	3904.2	3881.4	3866.3	3870.1	3862.5
12.5°	4196.7	4132.1	4041.0	4018.2	4006.8	4018.2	4022.0	3991.6	3965.0	3968.8	3957.4
15°	4371.4	4299.2	4200.5	4166.3	4158.7	4154.9	4139.7	4101.7	4067.5	4063.7	4052.3
17.5°	4561.3	4470.1	4352.4	4318.2	4284.0	4272.6	4234.6	4185.3	4132.1	4132.1	4116.9
20°	4743.6	4641.0	4500.5	4451.1	4401.8	4356.2	4291.6	4211.9	4143.5	4132.1	4116.9
22.5°	4941.1	4819.5	4656.2	4584.1	4496.7	4405.6	4295.4	4189.1	4101.7	4082.7	4071.3
25°	5161.3	5009.4	4815.7	4709.4	4568.9	4428.3	4265.0	4128.3	4025.8	3995.4	3987.8
27.5°	5404.4	5222.1	4986.6	4830.9	4625.8	4405.6	4196.7	4033.4	3908.0	3870.1	3858.7
30°	5651.3	5434.8	5142.3	4914.5	4625.8	4333.4	4071.3	3881.4	3737.1	3684.0	3676.4
32.5°	5898.1	5655.1	5282.9	4960.0	4580.3	4211.9	3908.0	3684.0	3520.6	3456.1	3471.3
35°	6194.4	5898.1	5412.0	4979.0	4504.3	4063.7	3721.9	3459.9	3292.8	3235.8	3247.2
37.5°	6502.0	6141.2	5514.5	4963.8	4398.0	3896.6	3513.0	3258.6	3049.7	2951.0	2962.4
40°	6767.8	6361.5	5586.7	4910.7	4261.2	3706.7	3308.0	2973.7	2685.1	2590.2	2578.8
42.5°	7018.5	6524.8	5624.7	4830.9	4105.5	3486.5	3015.5	2586.4	2297.7	2180.0	2183.8
45°	7280.6	6684.3	5609.5	4724.6	3911.8	3228.2	2639.5	2206.6	1952.1	1845.8	1849.6
47.5°	7580.6	6855.2	5594.3	4610.6	3676.4	2894.0	2278.7	1872.4	1652.1	1576.1	1568.5
50°	7899.6	7045.1	5575.3	4470.1	3414.3	2521.8	1921.7	1560.9	1374.8	1325.5	1314.1
52.5°	8260.4	7250.2	5563.9	4303.0	3099.1	2126.8	1602.7	1287.5	1162.2	1128.0	1124.2
55°	8693.4	7489.4	5579.1	4101.7	2719.3	1754.6	1333.1	1109.0	1025.4	1006.4	1002.6
57.5°	9221.3	7797.1	5624.7	3866.3	2320.5	1431.8	1135.6	998.8	945.7	930.5	930.5
60°	9794.8	8146.5	5708.2	3600.4	1921.7	1181.1	1006.4	911.5	888.7	907.7	907.7
62.5°	10413.8	8556.6	5856.3	3277.6	1549.5	998.8	903.9	839.3	824.1	862.1	865.9
65°	10987.3	8955.4	5951.3	2890.2	1230.5	865.9	824.1	767.2	774.8	812.7	809.0
67.5°	11340.5	9285.8	5818.4	2404.1	976.1	767.2	740.6	691.2	710.2	740.6	744.4
70°	11124.0	9099.7	5161.3	1815.4	763.4	668.4	649.4	619.1	634.2	672.2	687.4
72.5°	10064.4	8150.3	4014.4	1226.7	615.3	562.1	569.7	554.5	573.5	607.7	641.8
75°	8169.3	6160.2	2692.7	786.2	486.1	478.5	489.9	478.5	486.1	520.3	539.3
77.5°	4265.0	3004.1	1340.7	489.9	360.8	372.2	391.2	395.0	417.8	425.4	433.0
80°	1990.1	1352.0	558.3	273.4	239.3	262.1	300.0	303.8	311.4	322.8	326.6
82.5°	649.4	406.4	258.3	148.1	136.7	148.1	193.7	231.7	235.5	258.3	258.3
85°	68.4	41.8	57.0	60.8	53.2	64.6	87.4	83.6	38.0	22.8	22.8
87.5°	19.0	15.2	19.0	19.0	15.2	15.2	11.4	3.8	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)