

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: P836212

Luminaire Tested: **ARCH3-150-750-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836212
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: ARCH3-150-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22389 lumens
Efficiency: N/A
Efficacy: 148.6 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

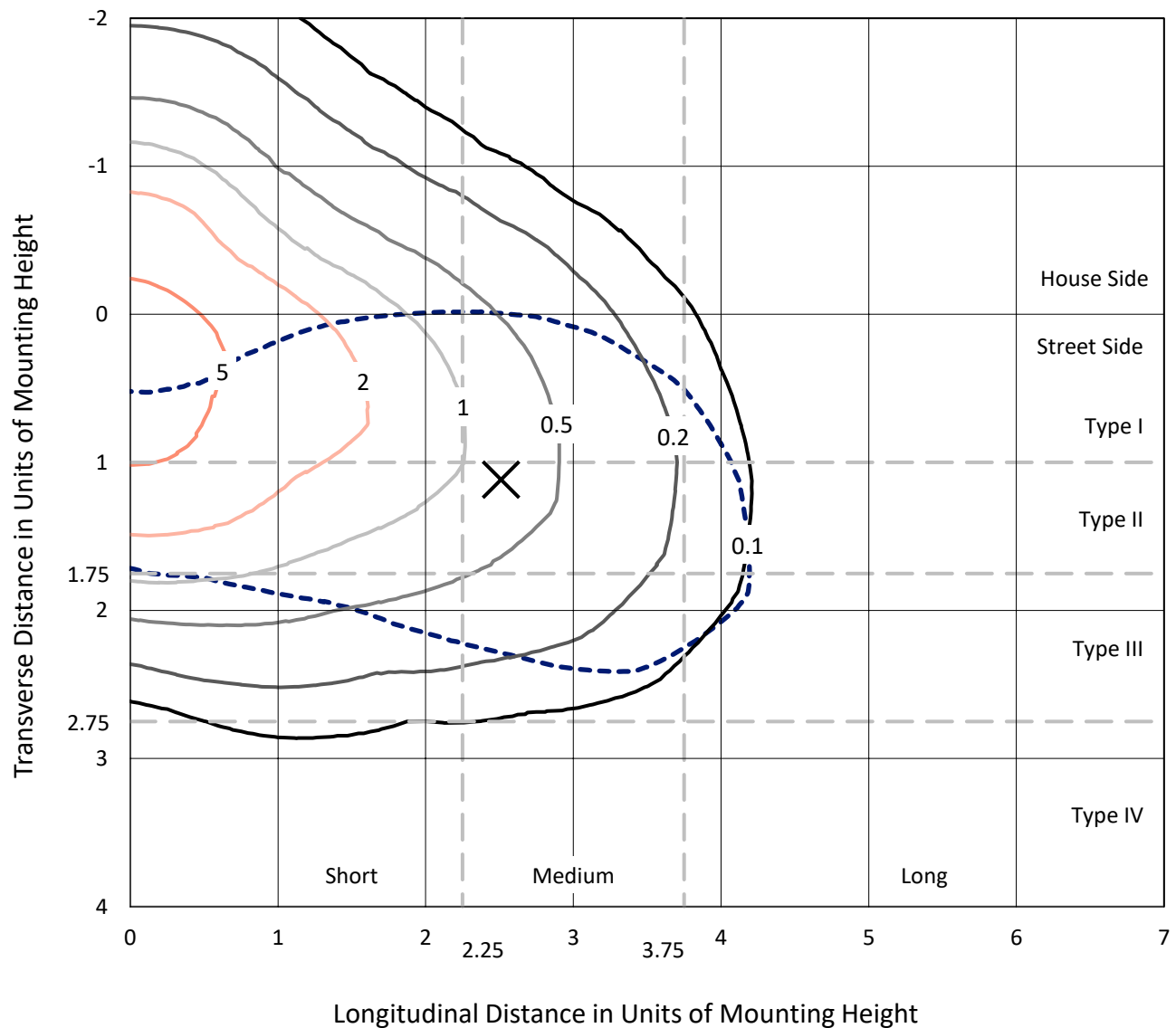


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Iso-Footcandle Lines of Horizontal Illumination

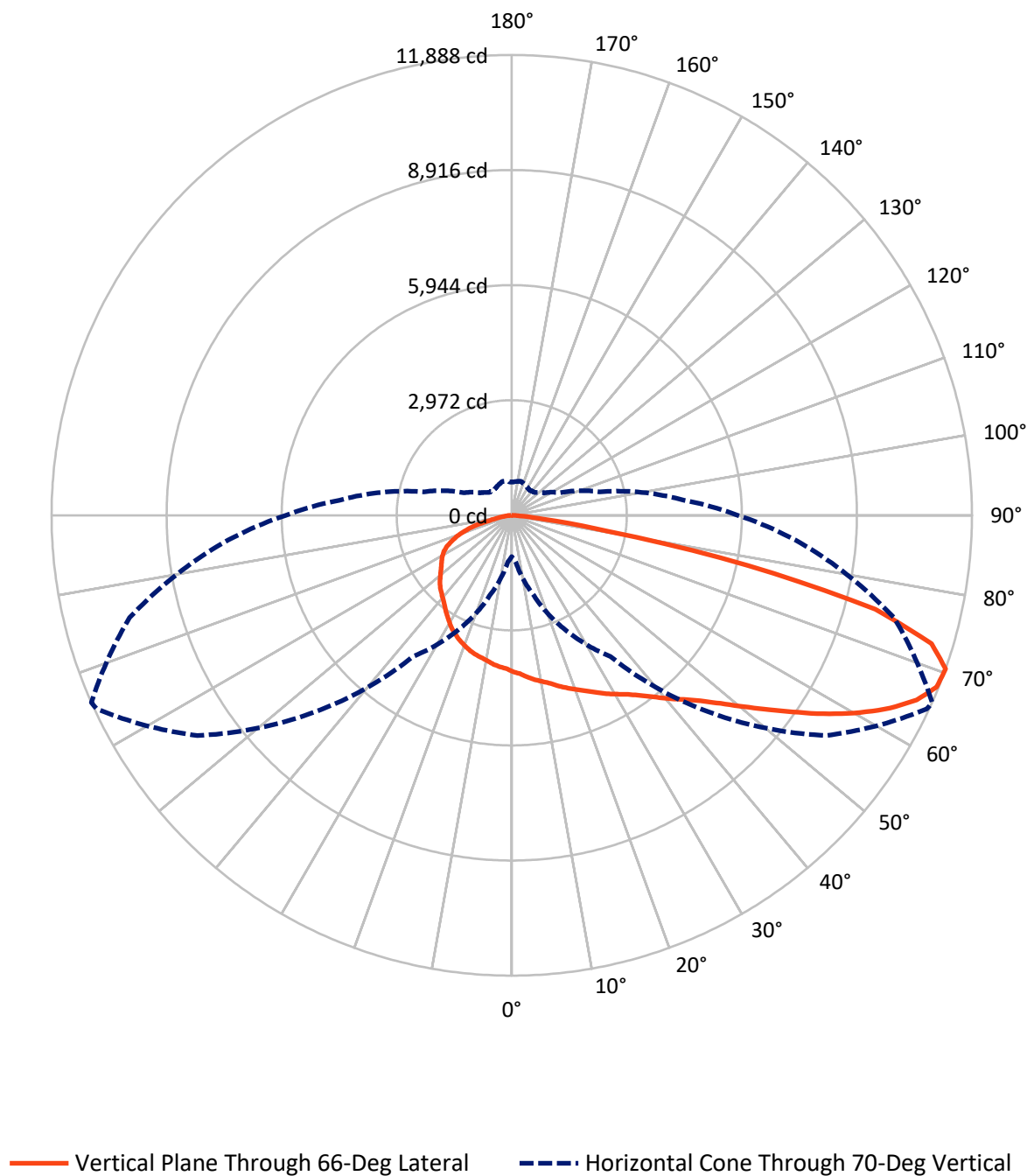
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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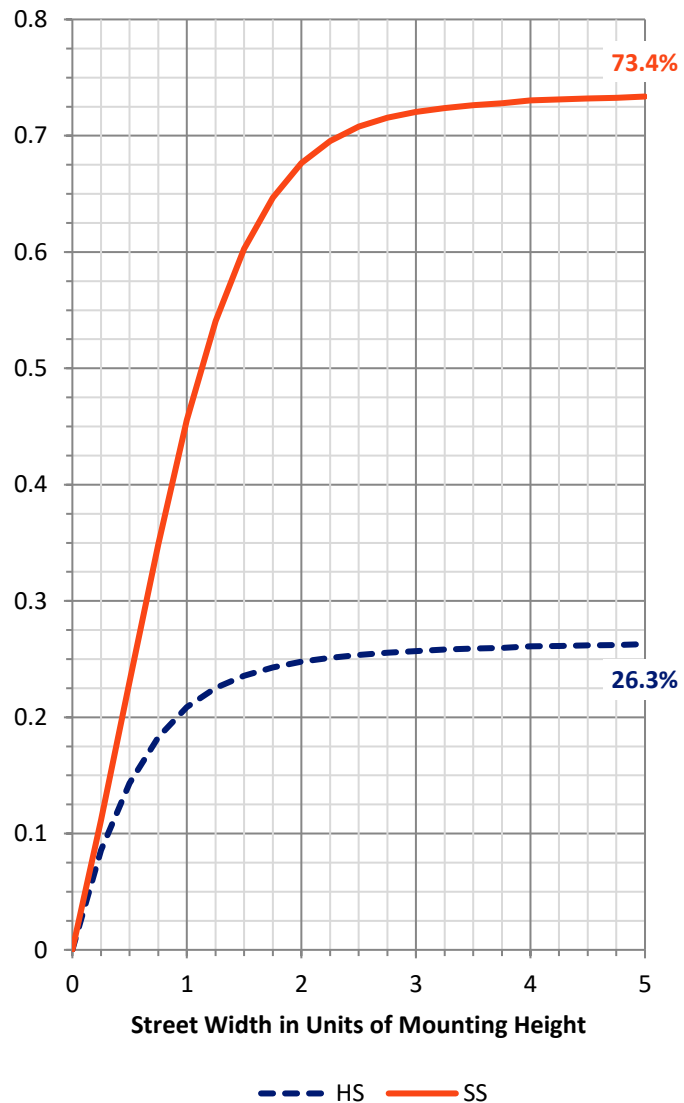
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5932.6	0.0	5932.6
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	16456.4	0.0	16456.4
	% Fixture	73.5	0.0	73.5
Total	Lumens	22389.0	0.0	22389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.3	1.7
10°-20°	1164.7	5.2
20°-30°	1952.4	8.7
30°-40°	2923.3	13.1
40°-50°	3908.5	17.5
50°-60°	4563.3	20.4
60°-70°	4537.5	20.3
70°-80°	2686.3	12.0
80°-90°	264.8	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°	22389.0	100.0
0°-180°	22389.0	100.0

Coefficient of Utilization



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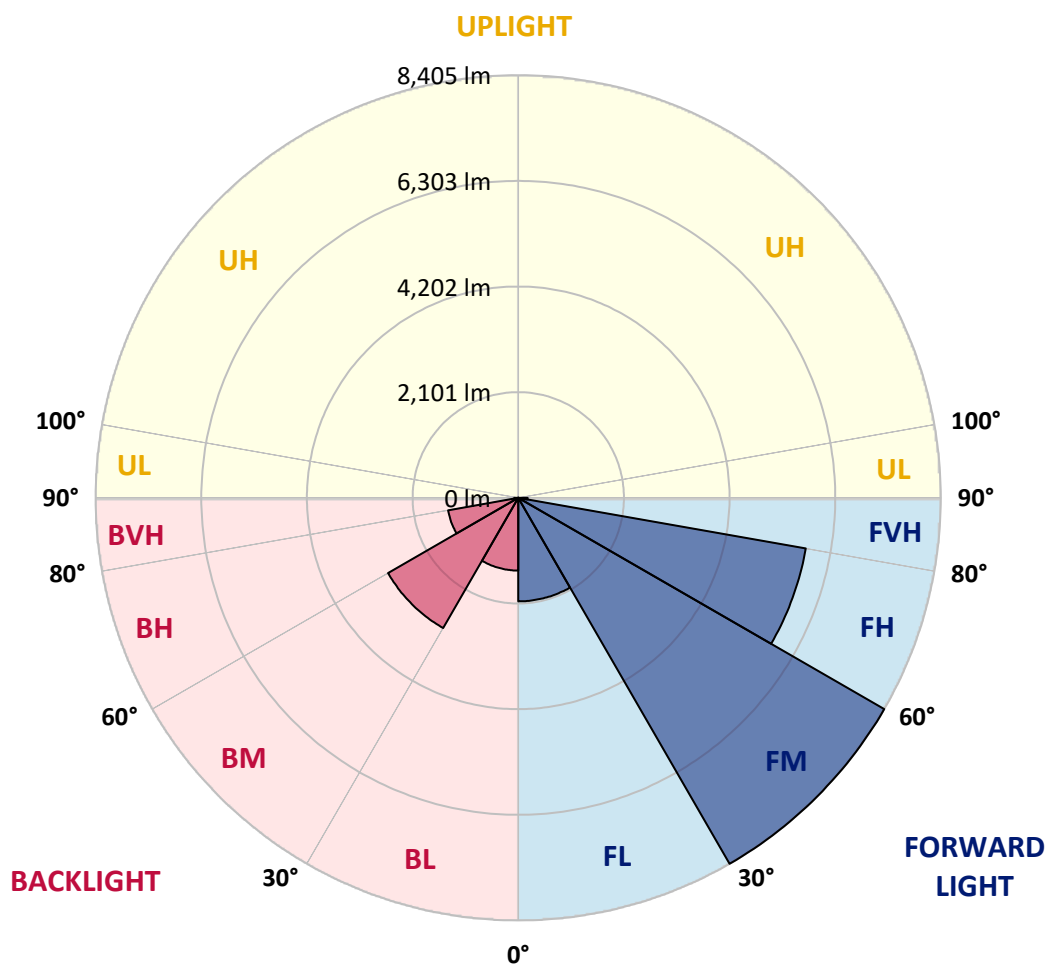
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2059.2	9.2			
FM	(30°-60°)	8404.5	37.5			
FH	(60°-80°)	5806.6	25.9			G3/7500
FVH	(80°-90°)	186.1	0.8			G2/225
BL	(0°-30°)	1446.1	6.5	B3/2500		
BM	(30°-60°)	2990.6	13.4	B3/5000		
BH	(60°-80°)	1417.1	6.3	B3/2500		G3/2500
BVH	(80°-90°)	78.7	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°	4040.7	4040.7	4040.7	4040.7	4040.7	4040.7	4040.7	4040.7	4040.7	4040.7	4040.7
2.5°	4189.3	4182.7	4179.4	4166.2	4136.4	4149.6	4119.9	4100.1	4096.8	4050.6	4024.2
5°	4360.9	4357.6	4351.0	4331.2	4285.0	4291.6	4242.1	4205.8	4195.9	4123.2	4067.1
7.5°	4506.2	4499.6	4496.3	4469.9	4420.3	4417.0	4357.6	4304.8	4288.3	4189.3	4103.4
10°	4618.4	4608.5	4615.1	4588.7	4535.9	4526.0	4450.1	4380.7	4364.2	4238.8	4119.9
12.5°	4714.2	4707.6	4717.5	4694.3	4651.4	4641.5	4565.6	4476.5	4456.7	4311.4	4156.2
15°	4819.8	4796.7	4816.5	4806.6	4776.9	4773.6	4704.3	4605.2	4578.8	4403.8	4212.4
17.5°	4875.9	4862.7	4885.8	4889.1	4875.9	4899.0	4833.0	4714.2	4691.0	4489.7	4261.9
20°	4915.5	4895.7	4922.1	4941.9	4951.8	4998.1	4945.2	4829.7	4803.3	4572.2	4308.1
22.5°	5050.9	5008.0	5011.3	5024.5	5031.1	5097.1	5064.1	4951.8	4925.4	4674.5	4364.2
25°	5390.9	5305.1	5249.0	5209.3	5163.1	5219.2	5199.4	5090.5	5067.4	4796.7	4433.6
27.5°	5919.1	5810.2	5697.9	5582.4	5400.8	5377.7	5344.7	5245.7	5219.2	4918.8	4502.9
30°	6519.9	6411.0	6278.9	6094.1	5754.0	5575.8	5499.8	5390.9	5361.2	5027.8	4568.9
32.5°	7117.5	7021.7	6889.7	6665.2	6179.9	5816.8	5655.0	5542.8	5513.1	5146.6	4648.1
35°	7582.9	7523.5	7437.7	7157.1	6602.5	6100.7	5879.5	5744.1	5711.1	5334.8	4793.4
37.5°	7959.3	7916.3	7843.7	7549.9	6909.5	6384.6	6137.0	5981.8	5945.5	5539.5	4948.5
40°	8513.9	8401.6	8342.2	7916.3	7176.9	6642.1	6427.5	6265.7	6226.1	5757.3	5074.0
42.5°	8985.9	8903.4	8830.8	8243.2	7431.1	6863.3	6701.5	6552.9	6500.1	5971.9	5209.3
45°	9065.2	9098.2	9061.9	8404.9	7833.8	7081.1	6978.8	6883.1	6833.5	6262.4	5414.0
47.5°	9068.5	9068.5	8853.9	8497.4	8332.3	7325.4	7275.9	7308.9	7256.1	6632.2	5658.3
50°	8830.8	8873.7	8761.5	8520.5	8464.4	7569.7	7639.0	7817.3	7764.5	7025.0	5922.4
52.5°	8338.9	8480.9	8477.6	8484.2	8272.9	7777.7	8022.0	8428.0	8338.9	7467.4	6203.0
55°	7470.7	7754.6	8008.8	8226.7	8107.8	7903.1	8490.8	9078.4	8985.9	7962.6	6486.9
57.5°	6727.9	6909.5	7226.4	7843.7	7913.0	8012.1	8929.8	9758.4	9675.9	8510.6	6784.0
60°	5879.5	6130.4	6447.3	7325.4	7675.4	8154.0	9411.8	10422.0	10342.8	9065.2	7071.2
62.5°	4575.5	4899.0	5532.9	6529.8	7328.7	8243.2	9791.4	11006.3	10970.0	9590.1	7328.7
65°	3189.0	3476.2	4364.2	5552.7	6777.4	8203.6	10095.2	11527.9	11494.9	10019.2	7510.3
67.5°	1861.9	2195.3	3198.9	4469.9	5803.6	7929.6	10194.2	11834.9	11834.9	10280.0	7559.8
70°	1063.0	1218.2	2109.5	3258.3	4450.1	7173.6	9916.9	11831.6	11887.7	10220.6	7355.1
72.5°	742.8	812.1	1419.5	2192.0	3017.3	5803.6	9190.6	11260.5	11336.4	9659.4	6655.3
75°	577.7	627.2	1000.3	1495.5	1901.5	3941.7	7602.7	9494.3	9695.7	8233.3	5381.0
77.5°	439.1	475.4	584.3	934.2	1218.2	2264.6	5017.9	6226.1	6239.3	5041.0	2885.3
80°	320.2	356.5	389.5	571.1	647.0	1059.7	1894.9	2601.4	2528.7	2439.6	1561.5
82.5°	191.5	227.8	237.7	310.3	316.9	452.3	663.5	838.5	805.5	1072.9	732.9
85°	82.5	115.5	122.1	142.0	135.4	184.9	264.1	221.2	198.1	227.8	158.5
87.5°	19.8	33.0	33.0	36.3	29.7	46.2	49.5	36.3	33.0	39.6	39.6
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°	4040.7	4040.7	4040.7	4040.7	4040.7	4040.7	4040.7	4040.7	4040.7	4040.7	4040.7
2.5°	4017.6	4007.7	4011.0	3954.9	3938.4	3921.9	3912.0	3905.4	3898.8	3908.7	3918.6
5°	4047.3	4024.2	3997.8	3915.3	3882.2	3845.9	3819.5	3796.4	3786.5	3786.5	3796.4
7.5°	4070.4	4030.8	3974.7	3865.7	3806.3	3756.8	3713.9	3684.2	3667.7	3667.7	3677.6
10°	4073.7	4017.6	3928.5	3796.4	3717.2	3644.6	3595.0	3562.0	3538.9	3538.9	3545.5
12.5°	4093.5	4017.6	3902.1	3743.6	3644.6	3555.4	3496.0	3446.5	3436.6	3436.6	3443.2
15°	4126.5	4034.1	3885.5	3697.4	3578.5	3476.2	3410.2	3357.4	3337.5	3350.7	3354.0
17.5°	4156.2	4044.0	3855.8	3638.0	3496.0	3383.8	3311.1	3264.9	3238.5	3268.2	3268.2
20°	4176.1	4044.0	3812.9	3562.0	3406.9	3281.4	3212.1	3156.0	3136.2	3172.5	3175.8
22.5°	4205.8	4040.7	3766.7	3486.1	3311.1	3179.1	3109.8	3066.8	3056.9	3096.6	3109.8
25°	4238.8	4047.3	3717.2	3400.3	3205.5	3076.7	3023.9	3004.1	3010.7	3060.2	3076.7
27.5°	4275.1	4060.5	3667.7	3304.5	3090.0	2974.4	2944.7	2954.6	2981.0	3043.7	3063.5
30°	4308.1	4063.8	3598.3	3192.3	2957.9	2849.0	2862.2	2905.1	2944.7	3007.4	3030.5
32.5°	4351.0	4067.1	3525.7	3070.1	2815.9	2736.7	2796.1	2865.5	2905.1	2964.5	2990.9
35°	4456.7	4123.2	3469.6	2951.3	2683.9	2641.0	2740.0	2829.2	2852.3	2905.1	2928.2
37.5°	4578.8	4215.7	3439.9	2829.2	2555.2	2545.2	2670.7	2759.8	2766.4	2799.4	2822.6
40°	4654.7	4255.3	3406.9	2726.8	2439.6	2446.2	2575.0	2644.3	2631.1	2654.2	2670.7
42.5°	4730.7	4268.5	3337.5	2641.0	2330.7	2337.3	2436.3	2485.8	2492.4	2541.9	2565.1
45°	4859.4	4304.8	3261.6	2561.8	2231.6	2208.5	2267.9	2334.0	2419.8	2515.5	2541.9
47.5°	5031.1	4380.7	3182.4	2466.0	2135.9	2060.0	2083.1	2198.6	2287.8	2376.9	2393.4
50°	5206.0	4456.7	3109.8	2350.5	2040.2	1901.5	1911.4	2017.1	2089.7	2159.0	2168.9
52.5°	5377.7	4522.7	3047.0	2241.5	1931.2	1713.3	1753.0	1861.9	1911.4	1944.4	1954.3
55°	5549.4	4578.8	2990.9	2149.1	1805.8	1564.8	1601.1	1703.4	1753.0	1769.5	1776.1
57.5°	5727.6	4644.8	2948.0	2069.9	1663.8	1432.7	1455.8	1528.5	1574.7	1594.5	1587.9
60°	5876.2	4701.0	2924.9	1987.3	1521.9	1310.6	1304.0	1370.0	1436.0	1455.8	1449.2
62.5°	5991.7	4737.3	2888.6	1881.7	1396.4	1188.4	1155.4	1241.3	1310.6	1323.8	1333.7
65°	6054.5	4740.6	2799.4	1746.4	1267.7	1056.4	1033.3	1119.1	1162.0	1175.2	1175.2
67.5°	6044.6	4687.7	2624.5	1564.8	1148.8	937.5	917.7	970.6	1033.3	1043.2	1033.3
70°	5839.9	4469.9	2343.9	1373.3	1006.9	831.9	795.6	848.4	907.8	871.5	855.0
72.5°	5258.9	3905.4	1931.2	1162.0	848.4	699.9	683.4	736.2	739.5	746.1	729.6
75°	4149.6	2908.4	1445.9	904.5	686.7	587.6	584.3	574.4	587.6	614.0	594.2
77.5°	2178.8	1452.5	782.4	554.6	498.5	472.1	449.0	445.7	485.3	501.8	482.0
80°	1181.8	815.4	449.0	333.4	303.7	307.0	336.7	330.1	373.0	382.9	366.4
82.5°	515.0	386.2	221.2	201.4	201.4	198.1	208.0	231.1	277.3	277.3	221.2
85°	112.2	95.7	85.8	99.0	112.2	112.2	112.2	112.2	79.2	42.9	29.7
87.5°	36.3	36.3	36.3	39.6	42.9	42.9	36.3	26.4	16.5	3.3	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)