

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: P840860

Luminaire Tested: **ARCH4-100-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840860
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: ARCH4-100-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

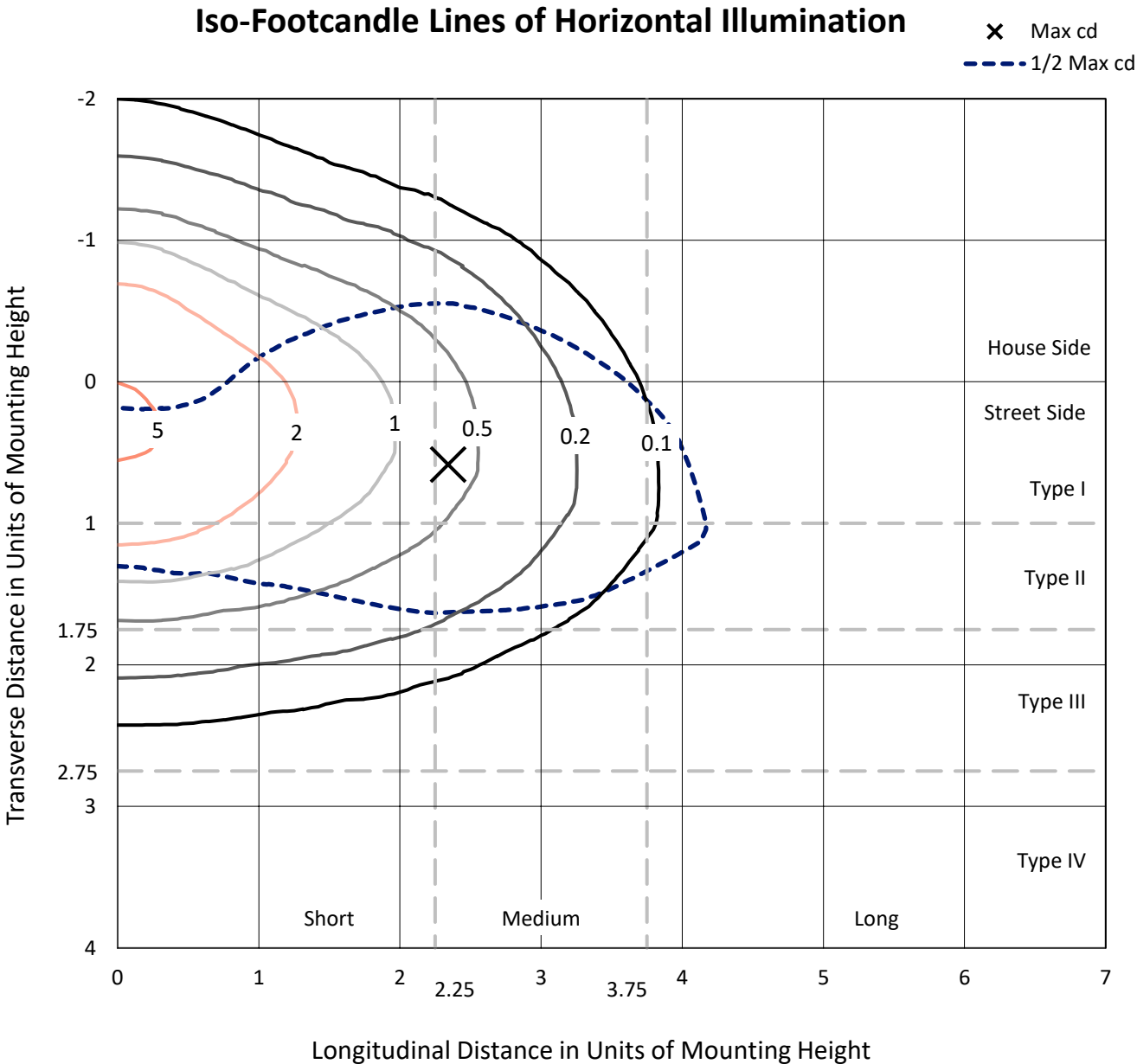
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15425 lumens
Efficiency: N/A
Efficacy: 149.6 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): 103.1
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



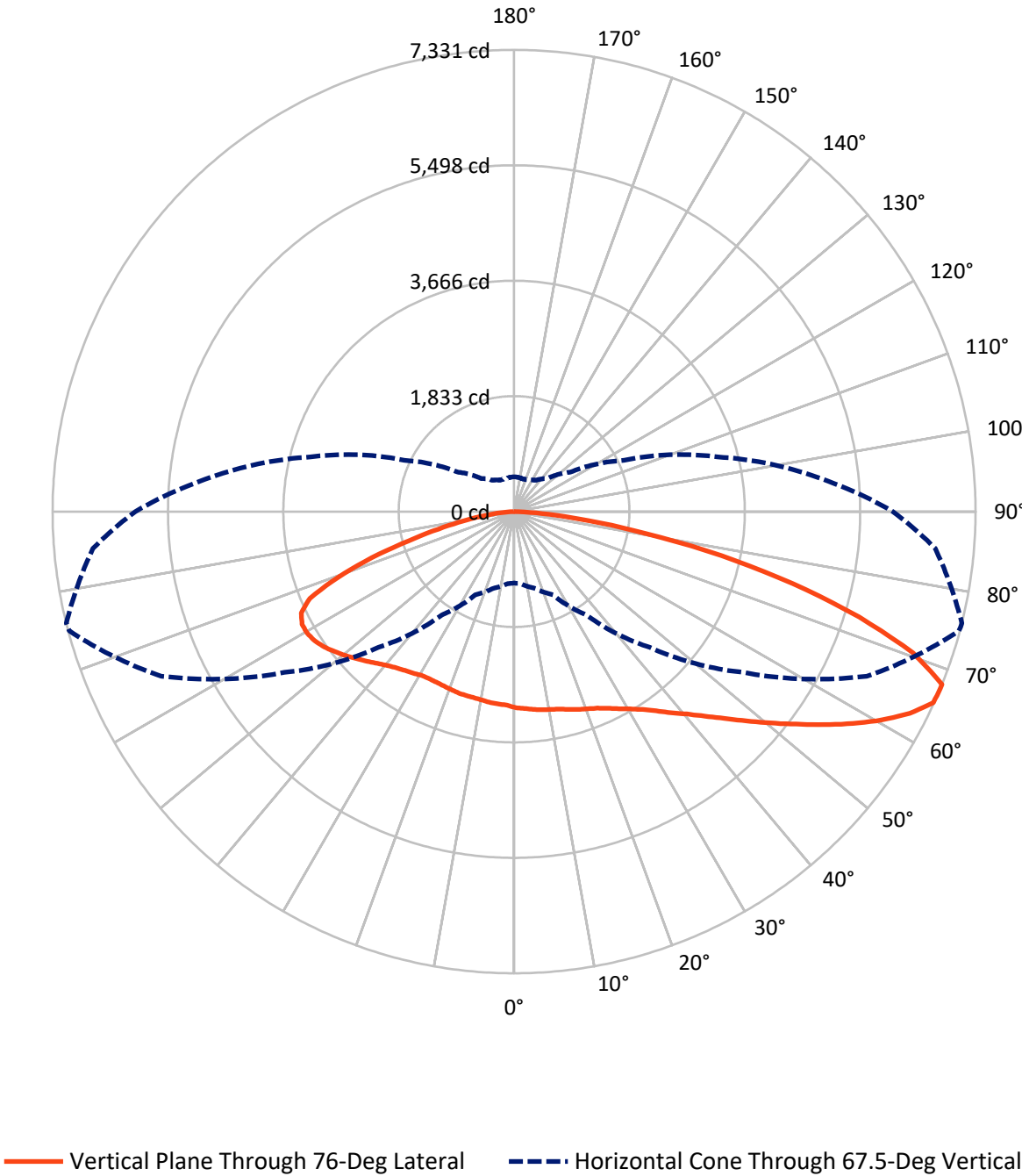
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Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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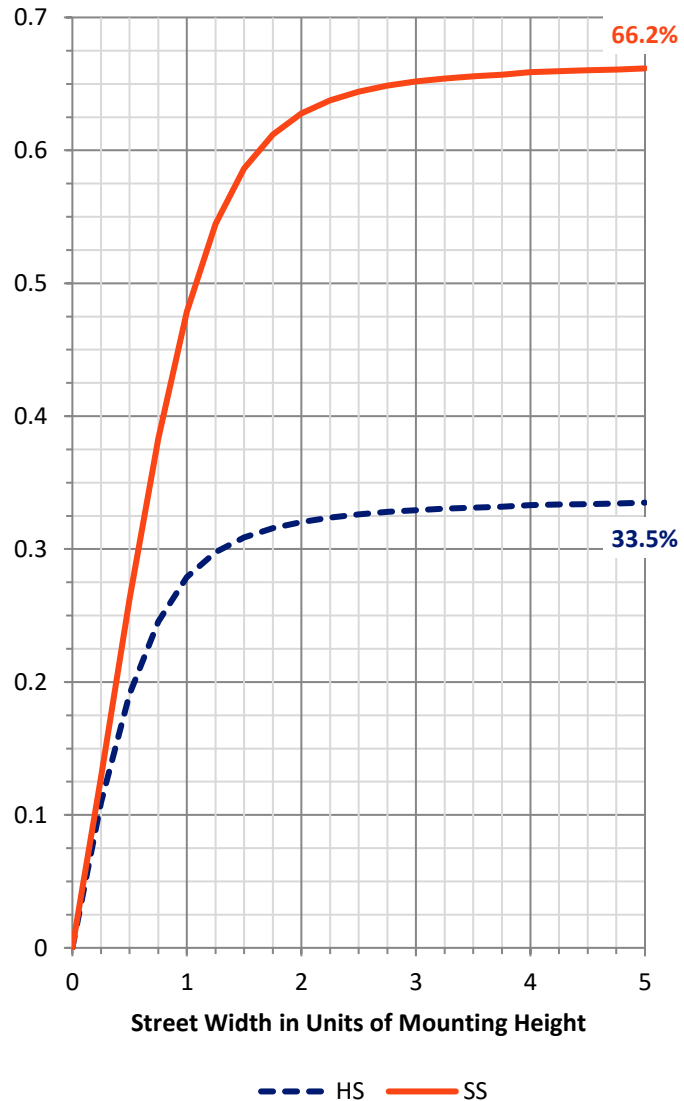
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5212.2	0.0	5212.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	10212.8	0.0	10212.8
	% Fixture	66.2	0.0	66.2
Total	Lumens	15425.0	0.0	15425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.4	1.9
10°-20°	918.5	6.0
20°-30°	1560.6	10.1
30°-40°	2220.6	14.4
40°-50°	2804.5	18.2
50°-60°	3036.4	19.7
60°-70°	2824.2	18.3
70°-80°	1516.8	9.8
80°-90°	243.0	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°	15425.0	100.0
0°-180°	15425.0	100.0

Coefficient of Utilization



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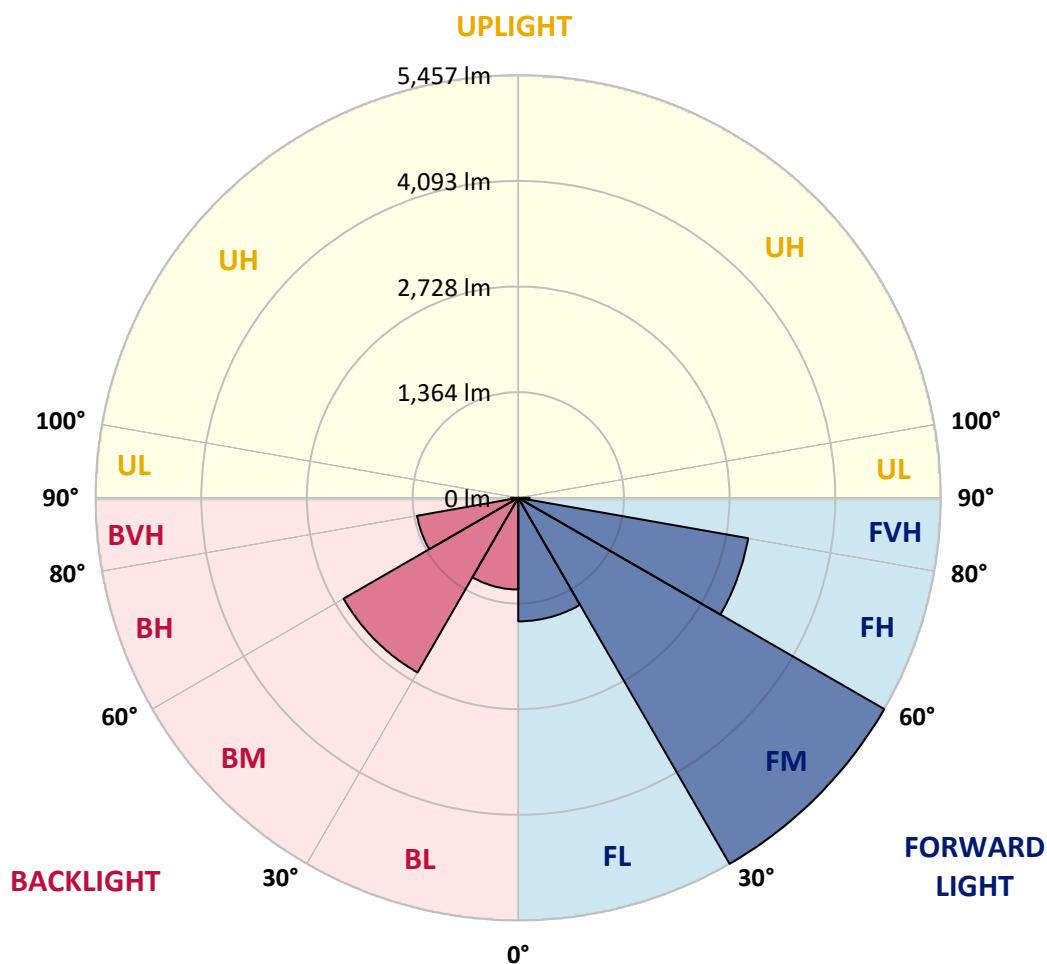
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1595.1	10.3			
FM	(30°-60°)	5456.8	35.4			
FH	(60°-80°)	3013.9	19.5			G2/5000
FVH	(80°-90°)	147.0	1.0			G2/225
BL	(0°-30°)	1184.5	7.7	B3/2500		
BM	(30°-60°)	2604.6	16.9	B3/5000		
BH	(60°-80°)	1327.1	8.6	B3/2500		G3/2500
BVH	(80°-90°)	96.0	0.6			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°	76°	85°
0°	3115.8	3115.8	3115.8	3115.8	3115.8	3115.8	3115.8	3115.8	3115.8	3115.8	3115.8
2.5°	3210.3	3204.6	3181.7	3184.5	3184.5	3181.7	3147.3	3133.0	3133.0	3130.1	3098.6
5°	3324.9	3316.3	3290.5	3284.8	3273.3	3259.0	3204.6	3173.1	3158.8	3155.9	3113.0
7.5°	3459.5	3448.0	3416.5	3399.3	3370.7	3333.5	3264.7	3216.0	3181.7	3178.8	3118.7
10°	3594.1	3582.6	3545.4	3513.9	3473.8	3413.7	3324.9	3253.3	3198.9	3193.1	3121.5
12.5°	3754.4	3743.0	3697.2	3657.1	3596.9	3516.7	3399.3	3302.0	3227.5	3218.9	3130.1
15°	3923.4	3906.2	3860.4	3814.6	3740.1	3637.0	3496.7	3367.8	3273.3	3259.0	3155.9
17.5°	4063.7	4040.8	4003.6	3957.8	3874.7	3754.4	3594.1	3433.7	3316.3	3304.8	3181.7
20°	4184.0	4166.8	4126.7	4083.8	3995.0	3863.3	3685.7	3499.6	3356.4	3342.1	3201.7
22.5°	4298.6	4275.7	4252.7	4221.2	4123.9	3977.8	3791.7	3579.8	3407.9	3390.7	3227.5
25°	4430.3	4404.5	4395.9	4378.8	4264.2	4115.3	3920.5	3680.0	3479.5	3459.5	3273.3
27.5°	4593.5	4564.9	4547.7	4547.7	4410.3	4255.6	4058.0	3797.4	3562.6	3545.4	3330.6
30°	4765.4	4731.0	4705.2	4705.2	4550.6	4395.9	4192.6	3914.8	3657.1	3637.0	3405.1
32.5°	4917.1	4882.8	4854.1	4851.3	4690.9	4536.3	4332.9	4043.7	3771.6	3745.9	3496.7
35°	5034.6	5003.1	4977.3	4983.0	4831.2	4679.5	4490.4	4215.5	3914.8	3886.2	3617.0
37.5°	5106.2	5094.7	5080.4	5100.4	4960.1	4816.9	4653.7	4381.6	4078.1	4052.3	3765.9
40°	5143.4	5134.8	5192.1	5217.8	5068.9	4940.1	4816.9	4553.4	4255.6	4227.0	3937.7
42.5°	5197.8	5269.4	5292.3	5286.6	5149.1	5034.6	4965.8	4739.6	4464.7	4438.9	4143.9
45°	5003.1	4985.9	5111.9	5180.6	5154.8	5094.7	5106.2	4963.0	4708.1	4682.3	4381.6
47.5°	4742.5	4719.5	4791.1	4960.1	5060.3	5117.6	5232.2	5194.9	4988.7	4965.8	4659.4
50°	4192.6	4224.1	4490.4	4716.7	4914.3	5111.9	5338.1	5444.1	5298.0	5275.1	4957.2
52.5°	3582.6	3614.1	3891.9	4413.1	4736.7	5068.9	5415.4	5693.2	5633.1	5607.3	5275.1
55°	3138.7	3207.5	3522.5	3900.5	4484.7	4934.3	5461.3	5948.1	5993.9	5971.0	5621.6
57.5°	2697.7	2749.2	2986.9	3322.0	4141.1	4699.5	5458.4	6185.8	6372.0	6349.0	5973.9
60°	2179.4	2245.2	2434.2	2795.1	3682.8	4418.8	5378.2	6372.0	6735.7	6718.5	6314.7
62.5°	1824.2	1844.3	1978.9	2291.0	3092.9	4063.7	5197.8	6472.2	7065.0	7053.5	6621.1
65°	1469.1	1472.0	1595.1	1855.7	2523.0	3622.7	4891.4	6435.0	7314.1	7319.9	6841.6
67.5°	1134.1	1148.4	1260.1	1457.7	2004.7	3049.9	4453.2	6182.9	7317.0	7331.3	6715.6
70°	784.7	796.1	965.1	1157.0	1549.3	2431.4	3860.4	5515.7	6715.6	6727.1	6019.7
72.5°	552.7	558.4	738.9	925.0	1211.4	1832.8	2912.5	4562.0	5724.7	5733.3	5063.2
75°	412.4	418.1	521.2	701.6	927.9	1268.7	1990.3	3493.8	4573.5	4573.5	3997.9
77.5°	292.1	295.0	337.9	484.0	618.6	856.3	1197.1	2288.2	3356.4	3362.1	2912.5
80°	197.6	200.5	220.5	326.5	386.6	463.9	650.1	1199.9	2116.3	2124.9	1850.0
82.5°	103.1	108.8	123.1	166.1	194.7	257.7	335.1	610.0	1171.3	1194.2	1111.2
85°	40.1	40.1	45.8	54.4	71.6	100.2	154.6	232.0	529.8	547.0	489.7
87.5°	14.3	14.3	17.2	17.2	20.0	22.9	25.8	34.4	60.1	60.1	57.3
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°	3115.8	3115.8	3115.8	3115.8	3115.8	3115.8	3115.8	3115.8	3115.8	3115.8	3115.8
2.5°	3087.2	3087.2	3072.9	3078.6	3075.7	3070.0	3064.3	3072.9	3064.3	3044.2	3041.4
5°	3092.9	3087.2	3064.3	3061.4	3052.8	3041.4	3027.0	3032.8	3018.4	3001.3	2998.4
7.5°	3095.8	3084.3	3052.8	3041.4	3024.2	3001.3	2978.4	2978.4	2958.3	2941.1	2938.3
10°	3090.0	3075.7	3032.8	3009.9	2978.4	2944.0	2912.5	2903.9	2881.0	2860.9	2860.9
12.5°	3092.9	3072.9	3018.4	2981.2	2938.3	2895.3	2855.2	2843.8	2823.7	2803.7	2800.8
15°	3110.1	3081.5	3012.7	2964.0	2901.0	2852.3	2809.4	2800.8	2783.6	2769.3	2769.3
17.5°	3127.3	3090.0	3004.1	2935.4	2858.1	2803.7	2763.6	2763.6	2752.1	2743.5	2743.5
20°	3135.9	3092.9	2986.9	2895.3	2806.5	2749.2	2712.0	2717.7	2714.9	2712.0	2712.0
22.5°	3155.9	3098.6	2972.6	2858.1	2752.1	2692.0	2657.6	2666.2	2663.3	2663.3	2666.2
25°	3187.4	3113.0	2961.2	2823.7	2700.6	2634.7	2597.5	2603.2	2603.2	2603.2	2603.2
27.5°	3230.4	3141.6	2958.3	2792.2	2649.0	2574.6	2528.7	2528.7	2517.3	2520.1	2523.0
30°	3296.2	3196.0	2964.0	2763.6	2594.6	2500.1	2445.7	2437.1	2434.2	2440.0	2442.8
32.5°	3376.4	3270.5	2998.4	2743.5	2537.3	2417.0	2348.3	2345.5	2336.9	2336.9	2336.9
35°	3476.7	3342.1	3029.9	2740.7	2480.1	2328.3	2253.8	2245.2	2225.2	2216.6	2216.6
37.5°	3605.5	3453.7	3067.1	2720.6	2431.4	2242.4	2153.6	2124.9	2102.0	2099.2	2099.2
40°	3763.0	3579.8	3121.5	2697.7	2379.8	2153.6	2036.2	1987.5	1990.3	2001.8	2001.8
42.5°	3949.2	3734.4	3190.3	2686.2	2305.4	2061.9	1898.7	1841.4	1861.5	1872.9	1875.8
45°	4166.8	3917.7	3267.6	2671.9	2236.6	1958.8	1752.6	1681.1	1689.6	1692.5	1695.4
47.5°	4418.8	4121.0	3347.8	2660.5	2159.3	1830.0	1592.3	1497.8	1494.9	1477.7	1483.4
50°	4682.3	4335.8	3430.8	2640.4	2064.8	1678.2	1423.3	1311.6	1288.7	1262.9	1265.8
52.5°	4963.0	4556.3	3508.2	2608.9	1947.4	1523.5	1262.9	1142.7	1096.8	1068.2	1073.9
55°	5272.3	4782.5	3582.6	2560.2	1824.2	1368.9	1119.7	996.6	939.3	916.4	919.3
57.5°	5555.8	5000.2	3637.0	2500.1	1689.6	1228.6	993.7	873.5	836.2	833.4	836.2
60°	5830.7	5183.5	3659.9	2417.0	1552.2	1099.7	876.3	784.7	758.9	773.2	776.1
62.5°	6062.7	5300.9	3648.5	2305.4	1411.9	976.6	781.8	716.0	698.8	727.4	730.3
65°	6197.3	5338.1	3568.3	2145.0	1260.1	856.3	693.0	621.4	612.9	630.0	638.6
67.5°	6019.7	5106.2	3350.6	1924.5	1091.1	744.6	607.1	549.8	535.5	549.8	549.8
70°	5335.3	4424.6	2835.2	1575.1	905.0	635.8	526.9	486.8	475.4	486.8	484.0
72.5°	4444.6	3680.0	2233.8	1228.6	713.1	535.5	458.2	421.0	409.5	398.1	392.3
75°	3448.0	2795.1	1620.9	902.1	538.4	429.6	383.7	349.4	320.7	332.2	326.5
77.5°	2525.9	1961.7	1148.4	624.3	386.6	332.2	300.7	274.9	254.9	277.8	274.9
80°	1626.6	1268.7	767.5	418.1	266.3	232.0	220.5	206.2	226.2	295.0	300.7
82.5°	993.7	804.7	458.2	272.1	174.7	154.6	143.2	143.2	232.0	254.9	257.7
85°	443.9	426.7	249.2	140.3	97.4	88.8	80.2	103.1	94.5	68.7	71.6
87.5°	71.6	74.5	54.4	48.7	37.2	37.2	28.6	20.0	14.3	8.6	8.6
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)