

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: P841197

Luminaire Tested: **ARCH4-140-750-U-T4W**

Issue Date: 5/27/2024

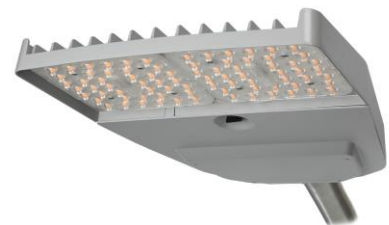
Test Information

Test Method: LM-79-08
Report Number: P841197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-140-750-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23951 lumens
Efficiency: N/A
Efficacy: 169.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 141.3
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



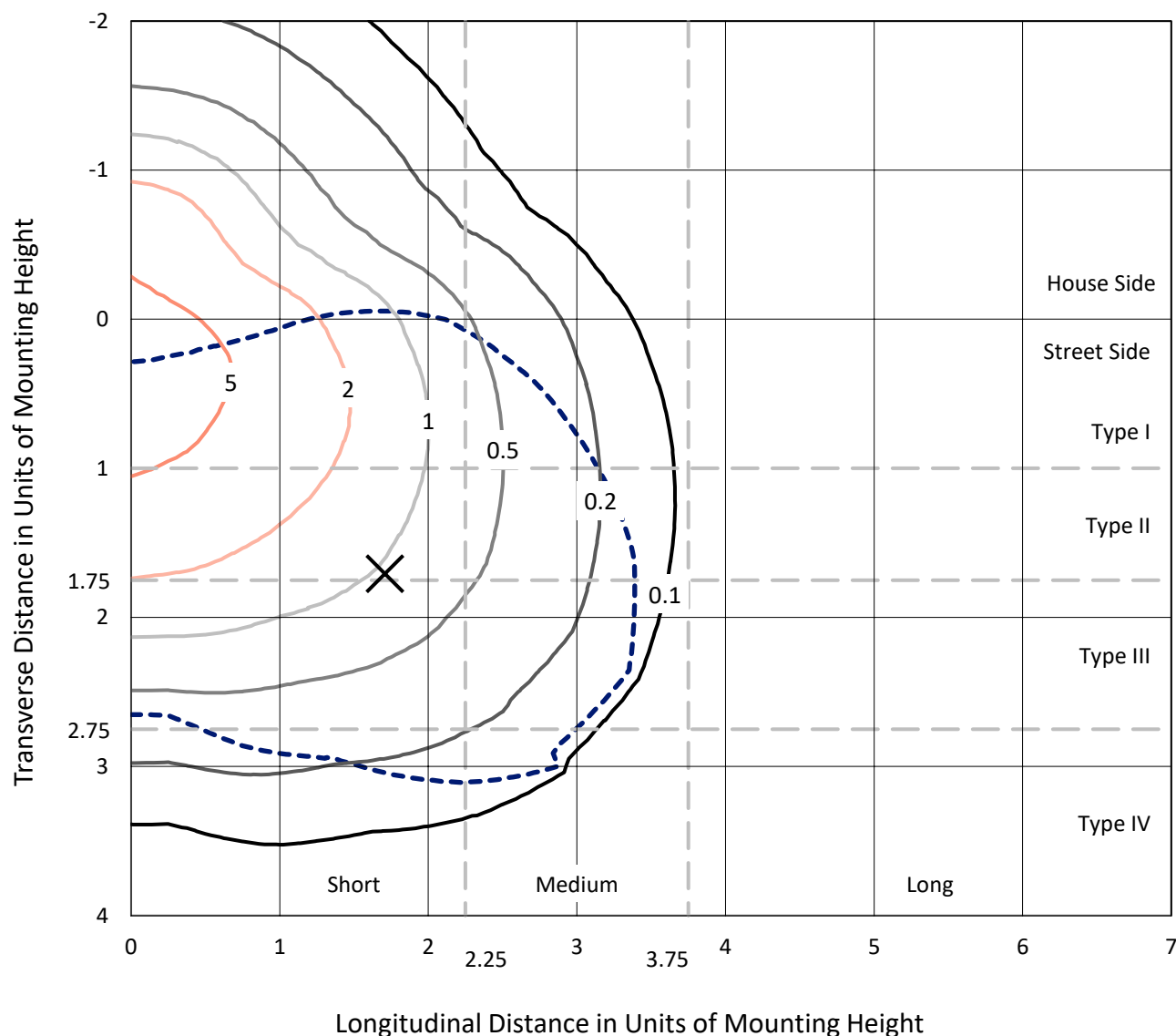
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

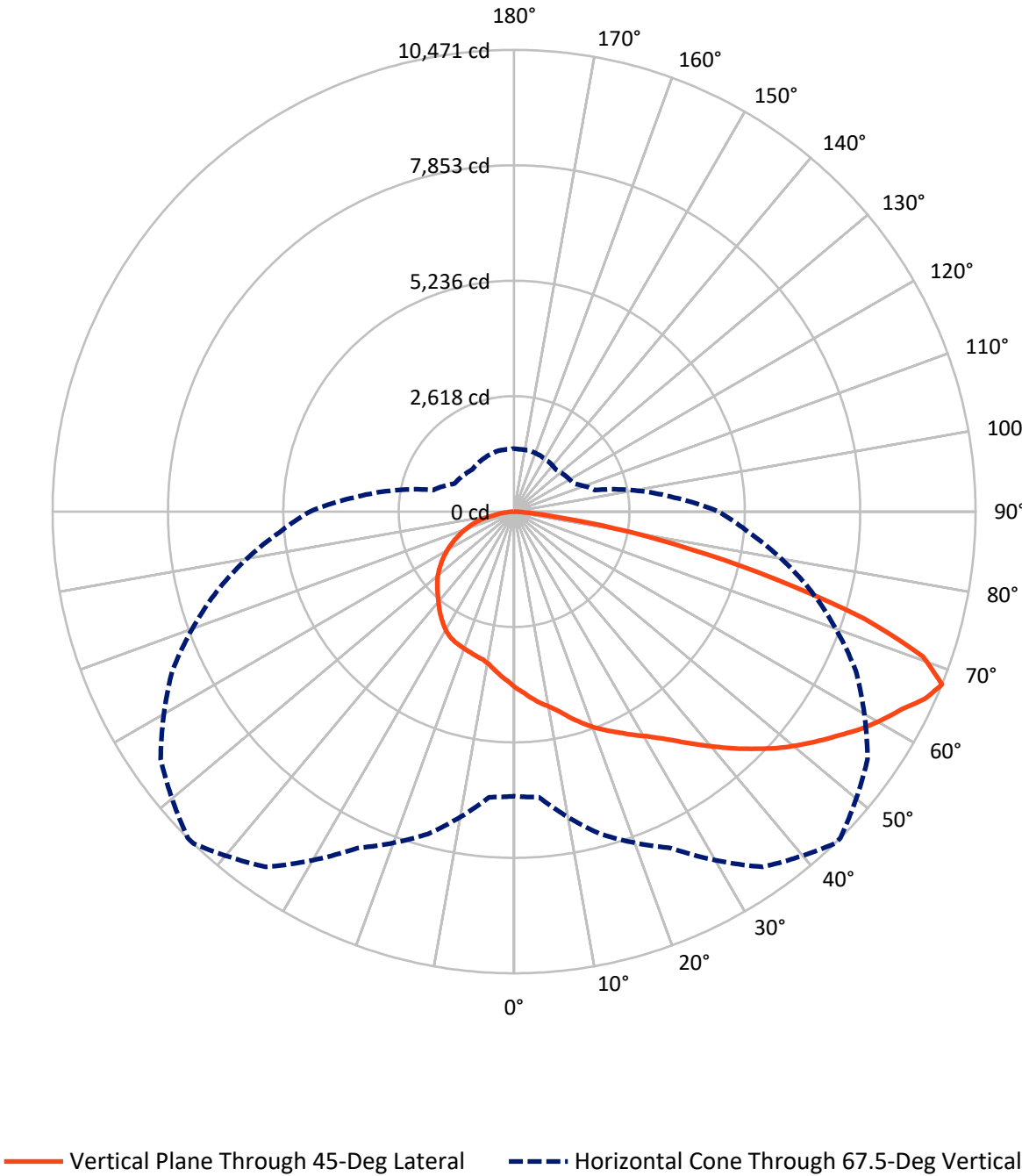


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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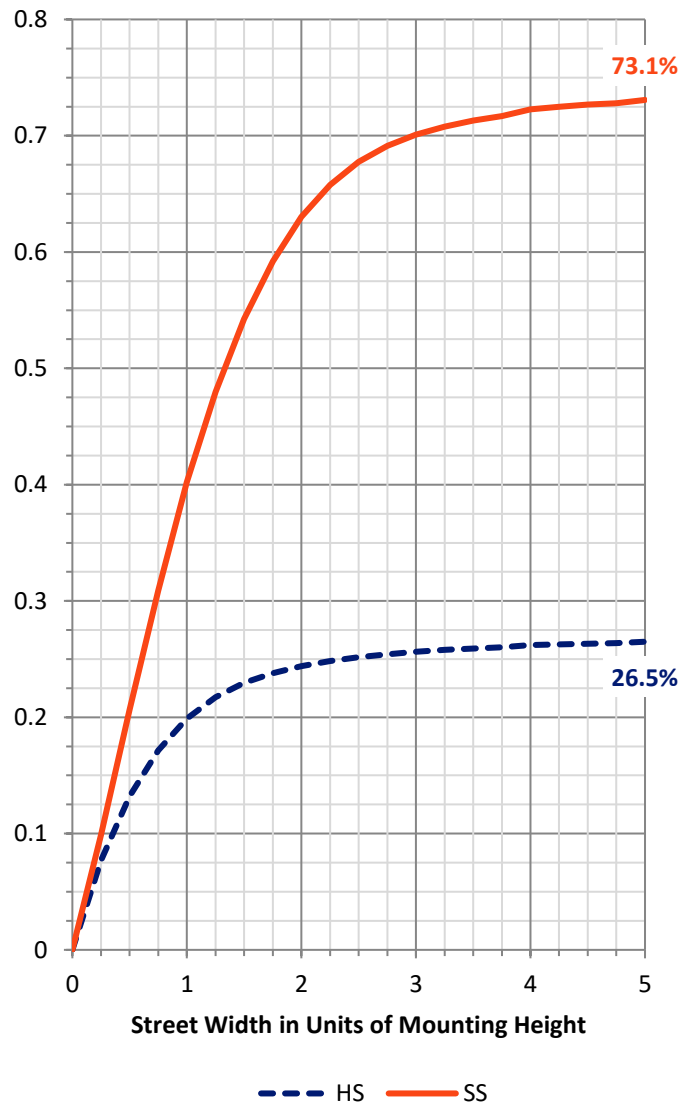
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6398.5	0.0	6398.5
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	17552.5	0.0	17552.5
	% Fixture	73.3	0.0	73.3
Total	Lumens	23951.0	0.0	23951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.5	1.6
10°-20°	1181.5	4.9
20°-30°	2039.3	8.5
30°-40°	3007.3	12.6
40°-50°	4074.3	17.0
50°-60°	4979.8	20.8
60°-70°	5136.0	21.4
70°-80°	2813.1	11.7
80°-90°	337.2	1.4
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°	23951.0	100.0
0°-180°	23951.0	100.0

Coefficient of Utilization



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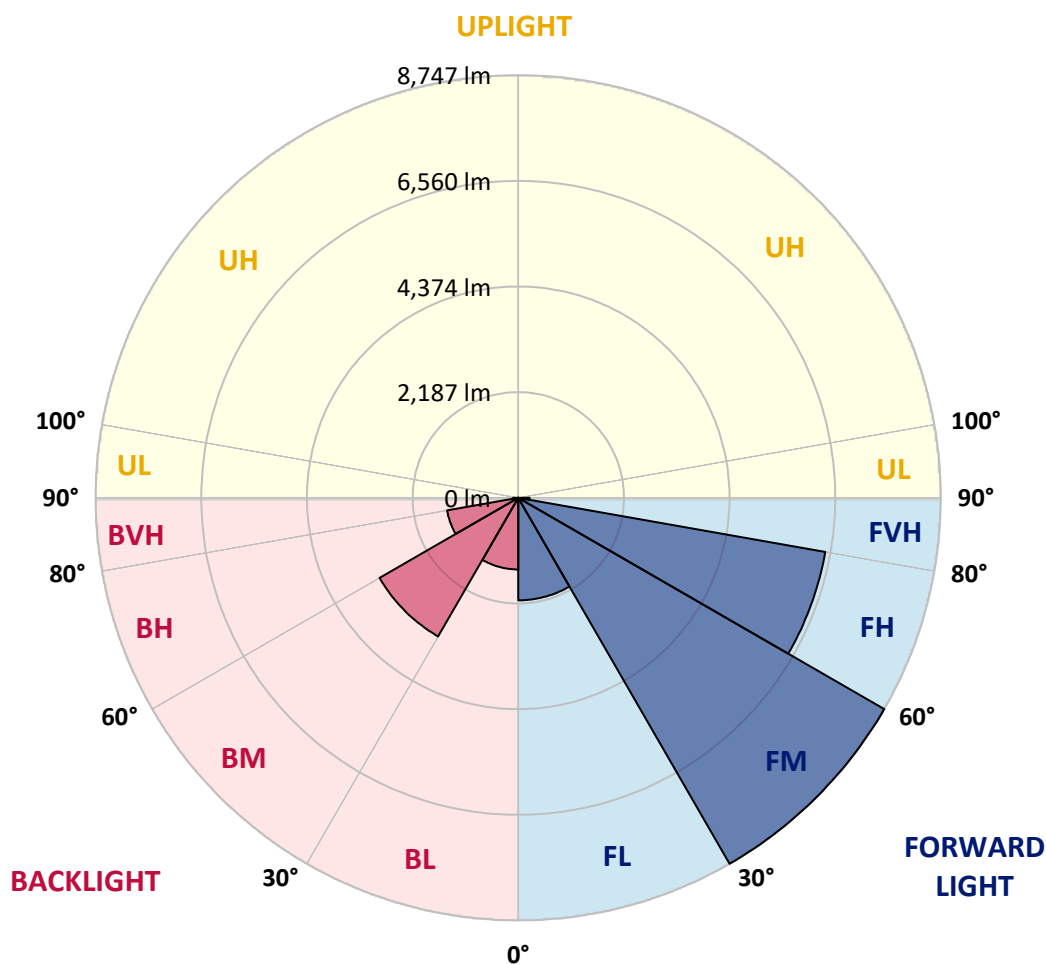
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2120.3	8.9			
FM	(30°-60°)	8747.1	36.5			
FH	(60°-80°)	6452.8	26.9			G3/7500
FVH	(80°-90°)	232.3	1.0			G3/500
BL	(0°-30°)	1483.0	6.2	B3/2500		
BM	(30°-60°)	3314.3	13.8	B3/5000		
BH	(60°-80°)	1496.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	104.9	0.4			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6
2.5°	4169.5	4165.9	4173.2	4147.6	4114.8	4111.2	4111.2	4089.3	4063.8	4012.8	3972.7
5°	4366.3	4359.0	4362.7	4326.2	4282.5	4260.6	4257.0	4209.6	4151.3	4071.1	3998.2
7.5°	4548.6	4541.3	4537.6	4497.5	4431.9	4395.5	4391.8	4322.6	4253.3	4129.4	4023.7
10°	4719.9	4712.6	4705.3	4650.6	4570.4	4515.8	4508.5	4421.0	4333.5	4180.5	4045.6
12.5°	4938.5	4924.0	4916.7	4851.1	4734.4	4676.1	4665.2	4548.6	4439.2	4253.3	4089.3
15°	5168.2	5157.2	5146.3	5084.3	4953.1	4876.6	4858.4	4712.6	4563.1	4348.1	4154.9
17.5°	5339.5	5328.5	5328.5	5273.9	5153.6	5066.1	5051.5	4876.6	4690.7	4435.6	4206.0
20°	5445.2	5434.2	5445.2	5412.4	5321.2	5248.3	5233.8	5040.6	4818.3	4515.8	4249.7
22.5°	5521.7	5510.8	5529.0	5514.4	5448.8	5405.1	5394.1	5204.6	4949.5	4599.6	4293.4
25°	5656.5	5656.5	5656.5	5631.0	5569.1	5554.5	5554.5	5390.5	5117.1	4708.9	4359.0
27.5°	5926.3	5911.7	5893.5	5820.6	5714.9	5711.2	5733.1	5580.0	5310.3	4851.1	4439.2
30°	6323.5	6316.2	6247.0	6093.9	5915.3	5897.1	5911.7	5784.1	5518.1	5000.5	4530.3
32.5°	6837.4	6811.9	6669.8	6440.2	6185.0	6101.2	6130.4	5995.5	5736.7	5153.6	4617.8
35°	7201.9	7209.2	7107.1	6899.4	6596.9	6374.6	6396.4	6232.4	5973.6	5324.9	4727.2
37.5°	7621.0	7646.5	7493.5	7336.7	7056.1	6677.1	6698.9	6476.6	6210.5	5539.9	4843.8
40°	8200.5	8149.5	7890.7	7704.9	7395.1	6994.1	7012.4	6750.0	6483.9	5744.0	4978.6
42.5°	8685.3	8594.2	8280.7	8043.8	7672.1	7329.5	7347.7	7045.2	6760.9	5970.0	5128.1
45°	9381.4	9129.9	8678.0	8561.4	7956.3	7657.5	7675.7	7358.6	7052.5	6210.5	5288.4
47.5°	9786.0	9385.1	9097.1	9035.2	8269.8	7996.4	8018.3	7690.3	7365.9	6483.9	5456.1
50°	9760.5	9501.7	9417.9	9264.8	8546.8	8313.5	8335.4	8032.9	7683.0	6753.6	5616.5
52.5°	9592.8	9640.2	9596.5	9341.3	8823.8	8619.7	8645.2	8371.8	8007.4	7005.1	5765.9
55°	9851.6	9884.4	9800.6	9465.2	9129.9	8925.8	8955.0	8729.0	8328.1	7227.4	5893.5
57.5°	10161.4	10044.7	9960.9	9683.9	9447.0	9257.5	9290.3	9093.5	8605.1	7406.0	5991.9
60°	10146.8	9902.6	9986.4	9698.5	9662.1	9563.6	9592.8	9392.3	8816.5	7537.2	6032.0
62.5°	9399.6	9268.4	9691.2	9592.8	9837.0	9837.0	9873.4	9574.6	8944.1	7591.9	6010.1
65°	8102.1	8109.4	8852.9	9261.1	10044.7	10212.4	10241.6	9687.6	8871.2	7431.5	5806.0
67.5°	6454.7	6502.1	7570.0	8419.2	9837.0	10467.5	10471.2	9789.6	8557.7	6979.6	5332.2
70°	4723.5	4760.0	6021.0	7052.5	8856.6	9902.6	9844.3	9501.7	7876.2	6192.3	4592.3
72.5°	3192.7	3225.5	4523.1	5416.0	7267.5	8433.8	8306.2	8397.3	6713.5	5088.0	3692.1
75°	2146.7	2186.8	3218.3	3874.3	5346.7	6403.7	6119.4	6360.0	5193.7	3852.4	2693.4
77.5°	1352.2	1377.7	2044.7	2540.3	3652.0	4359.0	4074.8	4078.4	2992.3	2073.8	1446.9
80°	860.1	867.4	1239.2	1465.2	2113.9	2620.5	2318.0	1884.3	1348.5	1100.7	863.8
82.5°	499.3	488.4	739.9	827.3	1005.9	995.0	823.7	780.0	590.4	550.3	441.0
85°	200.5	185.9	324.4	302.5	306.2	324.4	240.5	240.5	193.2	149.4	109.3
87.5°	40.1	40.1	43.7	40.1	40.1	43.7	32.8	32.8	29.2	29.2	29.2
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°	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6
2.5°	3965.4	3958.1	3939.9	3892.5	3867.0	3852.4	3830.6	3823.3	3819.6	3823.3	3834.2
5°	3976.3	3950.8	3899.8	3823.3	3772.2	3739.4	3703.0	3688.4	3677.5	3677.5	3688.4
7.5°	3983.6	3943.5	3856.1	3743.1	3670.2	3619.2	3575.4	3557.2	3553.6	3564.5	3568.1
10°	3987.3	3929.0	3805.0	3662.9	3568.1	3502.5	3458.8	3447.9	3458.8	3480.7	3484.3
12.5°	4012.8	3932.6	3775.9	3608.2	3495.3	3429.6	3396.8	3396.8	3426.0	3466.1	3469.7
15°	4056.5	3958.1	3761.3	3564.5	3447.9	3389.6	3378.6	3396.8	3440.6	3502.5	3509.8
17.5°	4089.3	3972.7	3728.5	3506.2	3385.9	3349.5	3367.7	3411.4	3473.4	3557.2	3564.5
20°	4111.2	3972.7	3681.1	3436.9	3324.0	3316.7	3367.7	3436.9	3502.5	3600.9	3611.9
22.5°	4133.1	3965.4	3626.5	3353.1	3254.7	3276.6	3371.3	3458.8	3524.4	3630.1	3648.3
25°	4173.2	3976.3	3571.8	3269.3	3181.8	3243.8	3367.7	3473.4	3542.6	3652.0	3681.1
27.5°	4227.8	4001.9	3531.7	3192.7	3108.9	3192.7	3342.2	3469.7	3542.6	3648.3	3681.1
30°	4286.1	4031.0	3484.3	3108.9	3025.1	3119.8	3287.5	3429.6	3513.5	3611.9	3652.0
32.5°	4348.1	4063.8	3444.2	3017.8	2923.0	3021.4	3207.3	3367.7	3458.8	3549.9	3593.7
35°	4431.9	4122.1	3422.4	2944.9	2831.9	2919.4	3105.3	3287.5	3385.9	3469.7	3520.8
37.5°	4534.0	4195.0	3411.4	2872.0	2733.5	2806.4	2995.9	3189.1	3294.8	3364.0	3411.4
40°	4650.6	4286.1	3407.8	2802.8	2635.1	2689.8	2882.9	3076.1	3178.2	3232.8	3272.9
42.5°	4781.8	4388.2	3400.5	2733.5	2536.7	2580.4	2773.6	2963.1	3050.6	3098.0	3134.4
45°	4920.3	4490.2	3385.9	2649.7	2431.0	2482.0	2660.6	2828.3	2919.4	2959.5	2999.6
47.5°	5058.8	4592.3	3356.8	2554.9	2336.2	2383.6	2540.3	2686.1	2759.0	2795.5	2835.6
50°	5193.7	4683.4	3287.5	2445.6	2237.8	2281.6	2401.8	2500.3	2554.9	2584.1	2624.2
52.5°	5313.9	4745.4	3189.1	2318.0	2139.4	2161.3	2241.5	2325.3	2369.0	2372.7	2409.1
55°	5416.0	4778.2	3047.0	2186.8	2033.7	2037.4	2081.1	2146.7	2164.9	2150.4	2175.9
57.5°	5474.3	4760.0	2890.2	2052.0	1924.4	1909.8	1942.6	1975.4	1979.1	1942.6	1968.1
60°	5488.9	4676.1	2686.1	1917.1	1815.1	1775.0	1785.9	1778.6	1771.3	1756.7	1778.6
62.5°	5416.0	4497.5	2460.2	1785.9	1698.4	1636.5	1632.8	1629.2	1640.1	1643.8	1647.4
65°	5149.9	4162.2	2190.5	1651.0	1574.5	1490.7	1487.0	1530.8	1545.3	1523.5	1530.8
67.5°	4636.0	3648.3	1895.2	1494.3	1417.8	1344.9	1374.0	1399.6	1425.1	1417.8	1425.1
70°	3907.1	2995.9	1625.5	1319.4	1246.5	1206.4	1239.2	1261.1	1264.7	1257.4	1264.7
72.5°	3072.5	2339.9	1374.0	1140.8	1075.2	1057.0	1097.0	1115.3	1148.1	1162.7	1166.3
75°	2219.6	1727.6	1126.2	947.6	892.9	892.9	929.4	962.2	991.4	973.1	962.2
77.5°	1239.2	1031.4	809.1	652.4	663.3	714.4	728.9	765.4	794.5	790.9	783.6
80°	750.8	645.1	546.7	422.8	419.1	459.2	554.0	616.0	630.5	597.7	594.1
82.5°	390.0	339.0	291.6	236.9	262.4	306.2	320.7	386.3	426.4	411.8	430.1
85°	98.4	94.8	105.7	109.3	134.9	149.4	164.0	193.2	127.6	62.0	62.0
87.5°	29.2	29.2	36.4	36.4	47.4	58.3	54.7	54.7	29.2	3.6	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)