

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: P841888

Luminaire Tested: **ARCH4-240-730-U-T3**

Issue Date: 5/27/2024

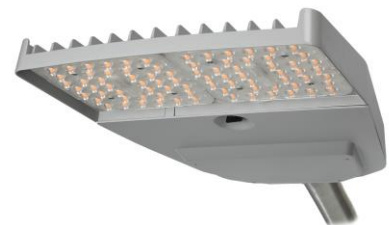
Test Information

Test Method: LM-79-08
Report Number: P841888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-240-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35805 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 240.2
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



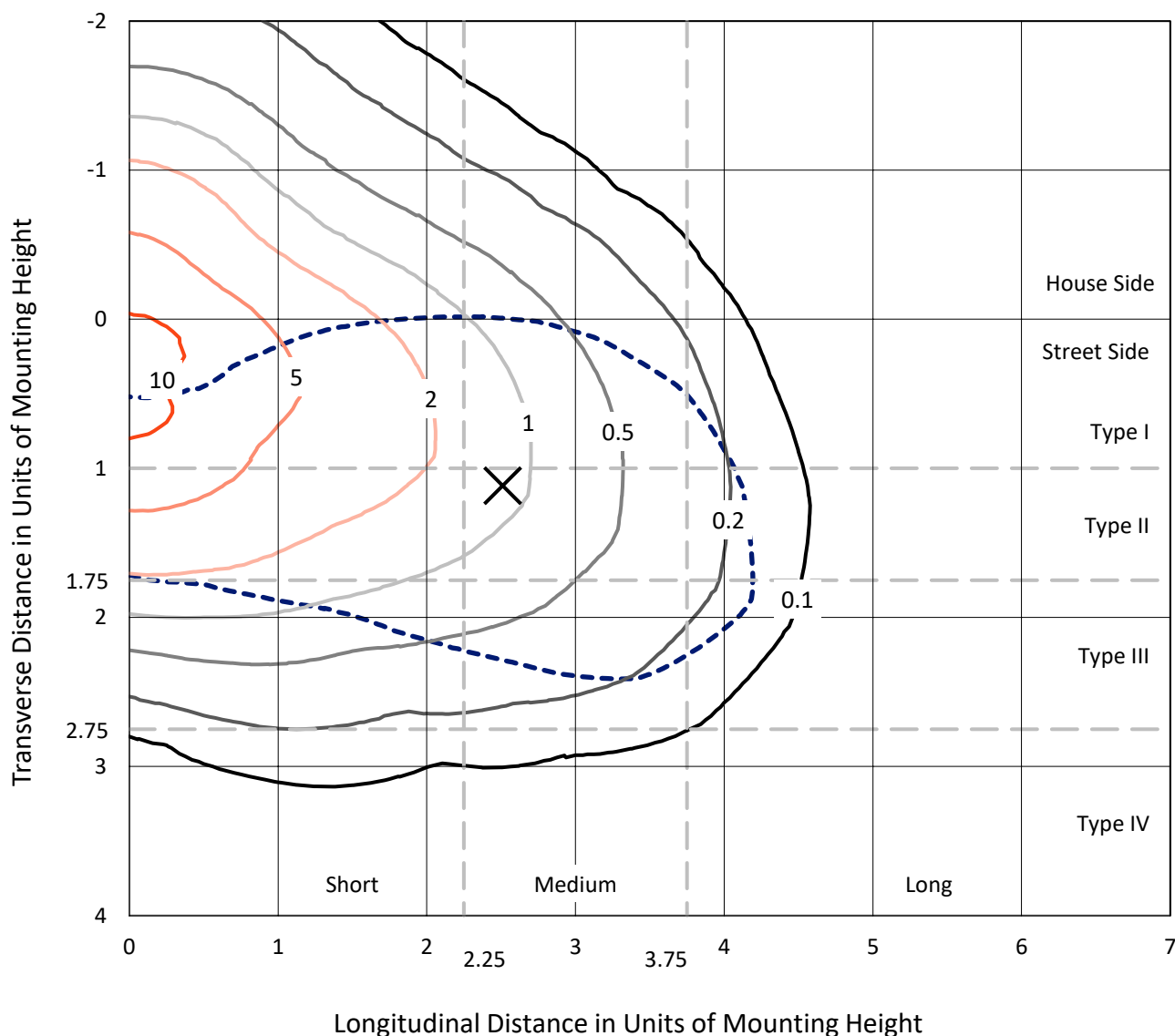
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

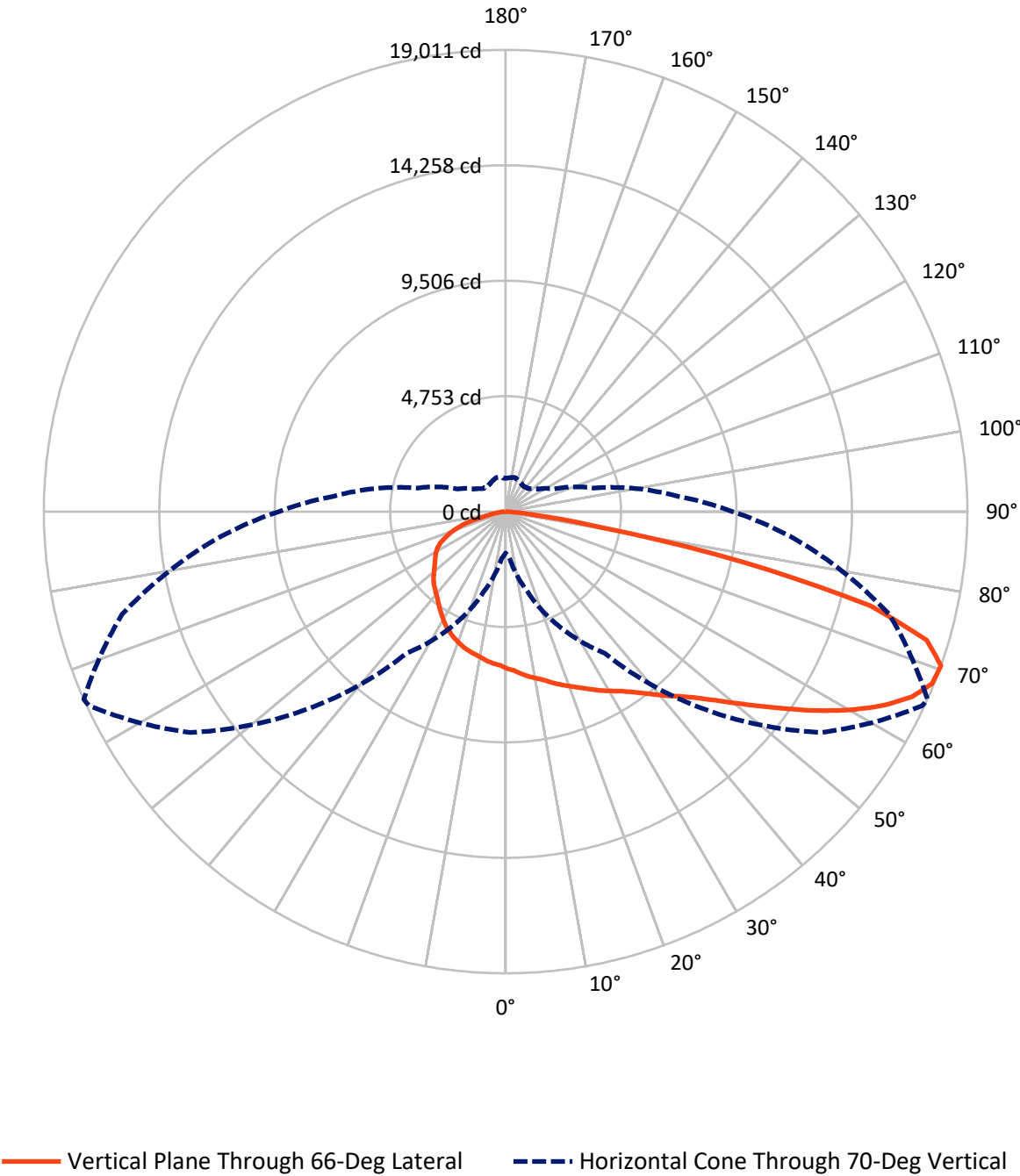
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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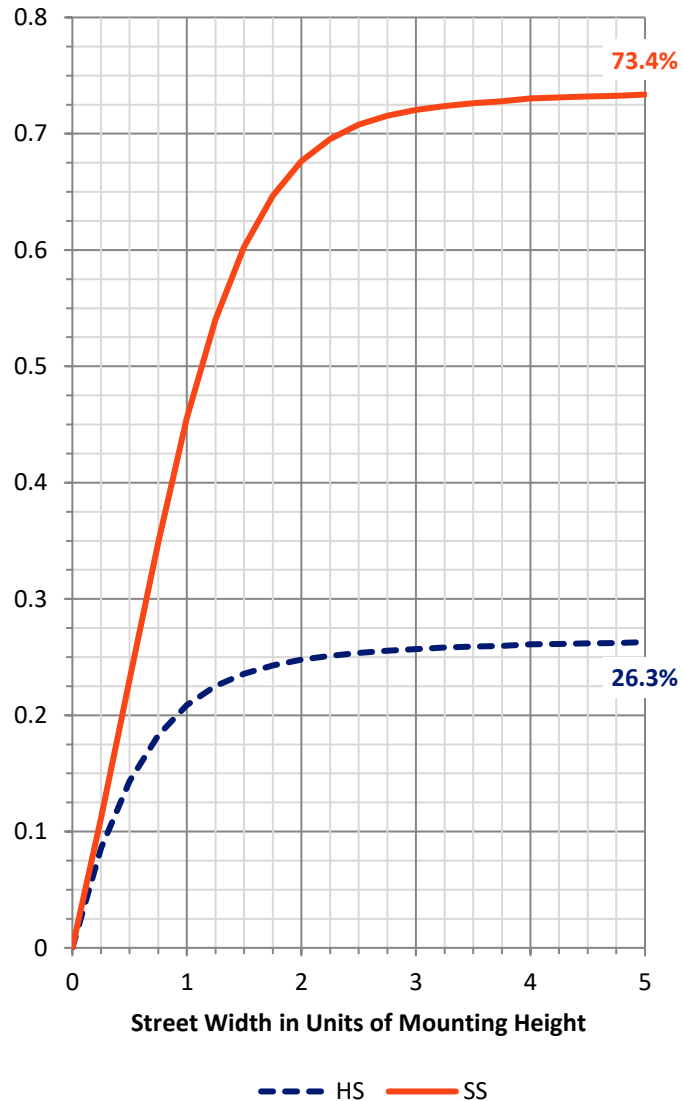
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9487.5	0.0	9487.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	26317.5	0.0	26317.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	35805.0	0.0	35805.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.9	1.7
10°-20°	1862.6	5.2
20°-30°	3122.3	8.7
30°-40°	4675.1	13.1
40°-50°	6250.6	17.5
50°-60°	7297.8	20.4
60°-70°	7256.5	20.3
70°-80°	4295.9	12.0
80°-90°	423.4	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°	35805.0	100.0
0°-180°	35805.0	100.0

Coefficient of Utilization



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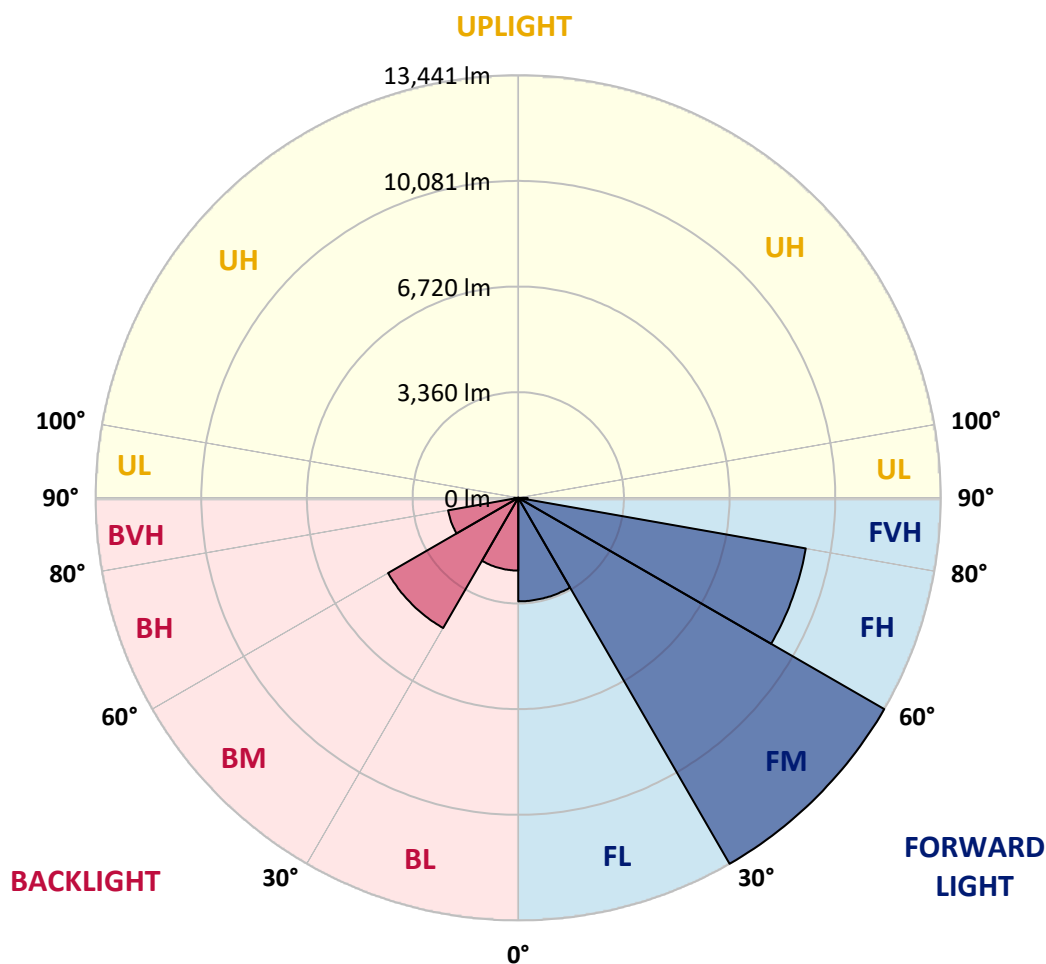
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3293.1	9.2			
FM	(30°-60°)	13440.7	37.5			
FH	(60°-80°)	9286.1	25.9			G4/12000
FVH	(80°-90°)	297.6	0.8			G3/500
BL	(0°-30°)	2312.6	6.5	B3/2500		
BM	(30°-60°)	4782.7	13.4	B3/5000		
BH	(60°-80°)	2266.3	6.3	B3/2500		G3/2500
BVH	(80°-90°)	125.8	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6462.0	6462.0	6462.0	6462.0	6462.0	6462.0	6462.0	6462.0	6462.0	6462.0	6462.0
2.5°	6699.6	6689.0	6683.7	6662.6	6615.1	6636.2	6588.7	6557.0	6551.7	6477.8	6435.6
5°	6974.1	6968.8	6958.3	6926.6	6852.7	6863.2	6784.0	6726.0	6710.1	6594.0	6504.2
7.5°	7206.4	7195.8	7190.5	7148.3	7069.1	7063.8	6968.8	6884.3	6857.9	6699.6	6562.3
10°	7385.9	7370.0	7380.6	7338.4	7253.9	7238.1	7116.6	7005.8	6979.4	6778.8	6588.7
12.5°	7539.0	7528.4	7544.3	7507.3	7438.7	7422.8	7301.4	7158.9	7127.2	6894.9	6646.8
15°	7707.9	7671.0	7702.6	7686.8	7639.3	7634.0	7523.1	7364.8	7322.5	7042.7	6736.5
17.5°	7797.7	7776.6	7813.5	7818.8	7797.7	7834.6	7729.0	7539.0	7502.0	7180.0	6815.7
20°	7861.0	7829.4	7871.6	7903.3	7919.1	7993.0	7908.5	7723.8	7681.5	7312.0	6889.6
22.5°	8077.5	8008.9	8014.1	8035.2	8045.8	8151.4	8098.6	7919.1	7876.9	7475.6	6979.4
25°	8621.3	8484.0	8394.2	8330.9	8257.0	8346.7	8315.1	8140.8	8103.9	7671.0	7090.2
27.5°	9466.0	9291.7	9112.2	8927.5	8637.1	8600.1	8547.4	8389.0	8346.7	7866.3	7201.1
30°	10426.8	10252.6	10041.4	9745.8	9202.0	8916.9	8795.5	8621.3	8573.7	8040.5	7306.7
32.5°	11382.4	11229.3	11018.1	10659.1	9883.0	9302.3	9043.6	8864.1	8816.6	8230.6	7433.4
35°	12126.8	12031.8	11894.5	11445.7	10558.8	9756.3	9402.6	9186.2	9133.4	8531.5	7665.7
37.5°	12728.6	12660.0	12543.9	12074.0	11049.8	10210.4	9814.4	9566.3	9508.2	8858.8	7913.8
40°	13615.6	13436.1	13341.0	12660.0	11477.4	10622.2	10279.0	10020.3	9957.0	9207.3	8114.4
42.5°	14370.5	14238.5	14122.4	13182.7	11883.9	10975.9	10717.2	10479.6	10395.1	9550.4	8330.9
45°	14497.2	14550.0	14492.0	13441.4	12528.0	11324.3	11160.7	11007.6	10928.4	10015.0	8658.2
47.5°	14502.5	14502.5	14159.4	13589.2	13325.2	11715.0	11635.8	11688.6	11604.1	10606.3	9048.9
50°	14122.4	14191.0	14011.5	13626.1	13536.4	12105.7	12216.5	12501.6	12417.2	11234.6	9471.2
52.5°	13335.8	13562.8	13557.5	13568.1	13230.2	12438.3	12828.9	13478.3	13335.8	11942.0	9920.0
55°	11947.3	12401.3	12807.8	13156.3	12966.2	12638.9	13578.6	14518.4	14370.5	12733.9	10374.0
57.5°	10759.4	11049.8	11556.6	12543.9	12654.7	12813.1	14280.8	15605.9	15473.9	13610.3	10849.2
60°	9402.6	9803.8	10310.7	11715.0	12274.6	13040.1	15051.6	16667.1	16540.4	14497.2	11308.5
62.5°	7317.3	7834.6	8848.3	10442.7	11720.3	13182.7	15658.7	17601.5	17543.5	15336.7	11720.3
65°	5099.9	5559.2	6979.4	8880.0	10838.6	13119.3	16144.4	18435.7	18382.9	16023.0	12010.6
67.5°	2977.6	3510.8	5115.7	7148.3	9281.2	12681.1	16302.8	18926.7	18926.7	16440.1	12089.8
70°	1700.0	1948.1	3373.5	5210.8	7116.6	11472.1	15859.3	18921.4	19011.1	16345.0	11762.5
72.5°	1187.9	1298.7	2270.1	3505.5	4825.4	9281.2	14697.9	18008.0	18129.5	15447.5	10643.3
75°	923.9	1003.1	1599.7	2391.6	3040.9	6303.6	12158.5	15183.6	15505.6	13166.8	8605.4
77.5°	702.2	760.2	934.5	1494.1	1948.1	3621.7	8024.7	9957.0	9978.1	8061.6	4614.2
80°	512.1	570.2	623.0	913.3	1034.8	1694.7	3030.4	4160.2	4044.0	3901.5	2497.2
82.5°	306.2	364.3	380.1	496.3	506.8	723.3	1061.2	1341.0	1288.2	1715.8	1172.0
85°	132.0	184.8	195.3	227.0	216.5	295.6	422.4	353.7	316.8	364.3	253.4
87.5°	31.7	52.8	52.8	58.1	47.5	73.9	79.2	58.1	52.8	63.4	63.4
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°	6462.0	6462.0	6462.0	6462.0	6462.0	6462.0	6462.0	6462.0	6462.0	6462.0	6462.0
2.5°	6425.0	6409.2	6414.5	6324.7	6298.3	6271.9	6256.1	6245.5	6235.0	6250.8	6266.6
5°	6472.5	6435.6	6393.4	6261.4	6208.6	6150.5	6108.3	6071.3	6055.5	6055.5	6071.3
7.5°	6509.5	6446.1	6356.4	6182.2	6087.1	6008.0	5939.3	5891.8	5865.4	5865.4	5881.3
10°	6514.8	6425.0	6282.5	6071.3	5944.6	5828.5	5749.3	5696.5	5659.5	5659.5	5670.1
12.5°	6546.5	6425.0	6240.3	5986.8	5828.5	5685.9	5590.9	5511.7	5495.9	5495.9	5506.4
15°	6599.3	6451.4	6213.9	5912.9	5722.9	5559.2	5453.6	5369.2	5337.5	5358.6	5363.9
17.5°	6646.8	6467.3	6166.3	5817.9	5590.9	5411.4	5295.2	5221.3	5179.1	5226.6	5226.6
20°	6678.4	6467.3	6097.7	5696.5	5448.3	5247.7	5136.9	5047.1	5015.4	5073.5	5078.8
22.5°	6726.0	6462.0	6023.8	5575.0	5295.2	5084.1	4973.2	4904.6	4888.7	4952.1	4973.2
25°	6778.8	6472.5	5944.6	5437.8	5126.3	4920.4	4835.9	4804.3	4814.8	4894.0	4920.4
27.5°	6836.8	6493.7	5865.4	5284.7	4941.5	4756.7	4709.2	4725.1	4767.3	4867.6	4899.3
30°	6889.6	6498.9	5754.5	5105.2	4730.3	4556.1	4577.2	4645.9	4709.2	4809.5	4846.5
32.5°	6958.3	6504.2	5638.4	4909.8	4503.3	4376.6	4471.7	4582.5	4645.9	4740.9	4783.1
35°	7127.2	6594.0	5548.7	4719.8	4292.2	4223.5	4381.9	4524.4	4561.4	4645.9	4682.8
37.5°	7322.5	6741.8	5501.1	4524.4	4086.3	4070.4	4271.0	4413.6	4424.1	4476.9	4513.9
40°	7444.0	6805.1	5448.3	4360.8	3901.5	3912.0	4117.9	4228.8	4207.7	4244.6	4271.0
42.5°	7565.4	6826.3	5337.5	4223.5	3727.3	3737.8	3896.2	3975.4	3985.9	4065.1	4102.1
45°	7771.3	6884.3	5216.0	4096.8	3568.9	3531.9	3626.9	3732.5	3869.8	4022.9	4065.1
47.5°	8045.8	7005.8	5089.3	3943.7	3415.8	3294.3	3331.3	3516.1	3658.6	3801.2	3827.6
50°	8325.6	7127.2	4973.2	3758.9	3262.7	3040.9	3056.8	3225.7	3341.9	3452.7	3468.6
52.5°	8600.1	7232.8	4872.9	3584.7	3088.4	2740.0	2803.4	2977.6	3056.8	3109.6	3125.4
55°	8874.7	7322.5	4783.1	3436.9	2887.8	2502.4	2560.5	2724.2	2803.4	2829.8	2840.3
57.5°	9159.8	7428.1	4714.5	3310.2	2660.8	2291.3	2328.2	2444.4	2518.3	2550.0	2539.4
60°	9397.3	7517.9	4677.5	3178.2	2433.8	2095.9	2085.4	2191.0	2296.5	2328.2	2317.7
62.5°	9582.1	7575.9	4619.5	3009.3	2233.2	1900.6	1847.8	1985.1	2095.9	2117.0	2132.9
65°	9682.4	7581.2	4476.9	2792.8	2027.3	1689.4	1652.5	1789.7	1858.3	1879.5	1879.5
67.5°	9666.6	7496.7	4197.1	2502.4	1837.2	1499.3	1467.7	1552.1	1652.5	1668.3	1652.5
70°	9339.3	7148.3	3748.4	2196.2	1610.2	1330.4	1272.3	1356.8	1451.8	1393.8	1367.4
72.5°	8410.1	6245.5	3088.4	1858.3	1356.8	1119.2	1092.8	1177.3	1182.6	1193.1	1166.7
75°	6636.2	4651.2	2312.4	1446.6	1098.1	939.7	934.5	918.6	939.7	982.0	950.3
77.5°	3484.4	2322.9	1251.2	886.9	797.2	755.0	718.0	712.7	776.1	802.5	770.8
80°	1890.0	1304.0	718.0	533.2	485.7	491.0	538.5	527.9	596.6	612.4	586.0
82.5°	823.6	617.7	353.7	322.0	322.0	316.8	332.6	369.6	443.5	443.5	353.7
85°	179.5	153.1	137.3	158.4	179.5	179.5	179.5	179.5	126.7	68.6	47.5
87.5°	58.1	58.1	58.1	63.4	68.6	68.6	58.1	42.2	26.4	5.3	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)