

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: P841652

Luminaire Tested: **ARCH4-210-722-U-T2U**

Issue Date: 5/27/2024

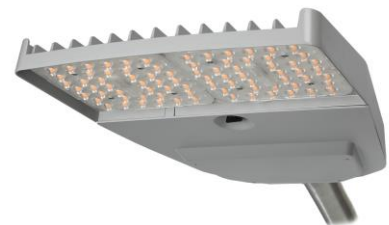
Test Information

Test Method: LM-79-08
Report Number: P841652
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: ARCH4-210-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28454 lumens
Efficiency: N/A
Efficacy: 133.5 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): 213.1
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

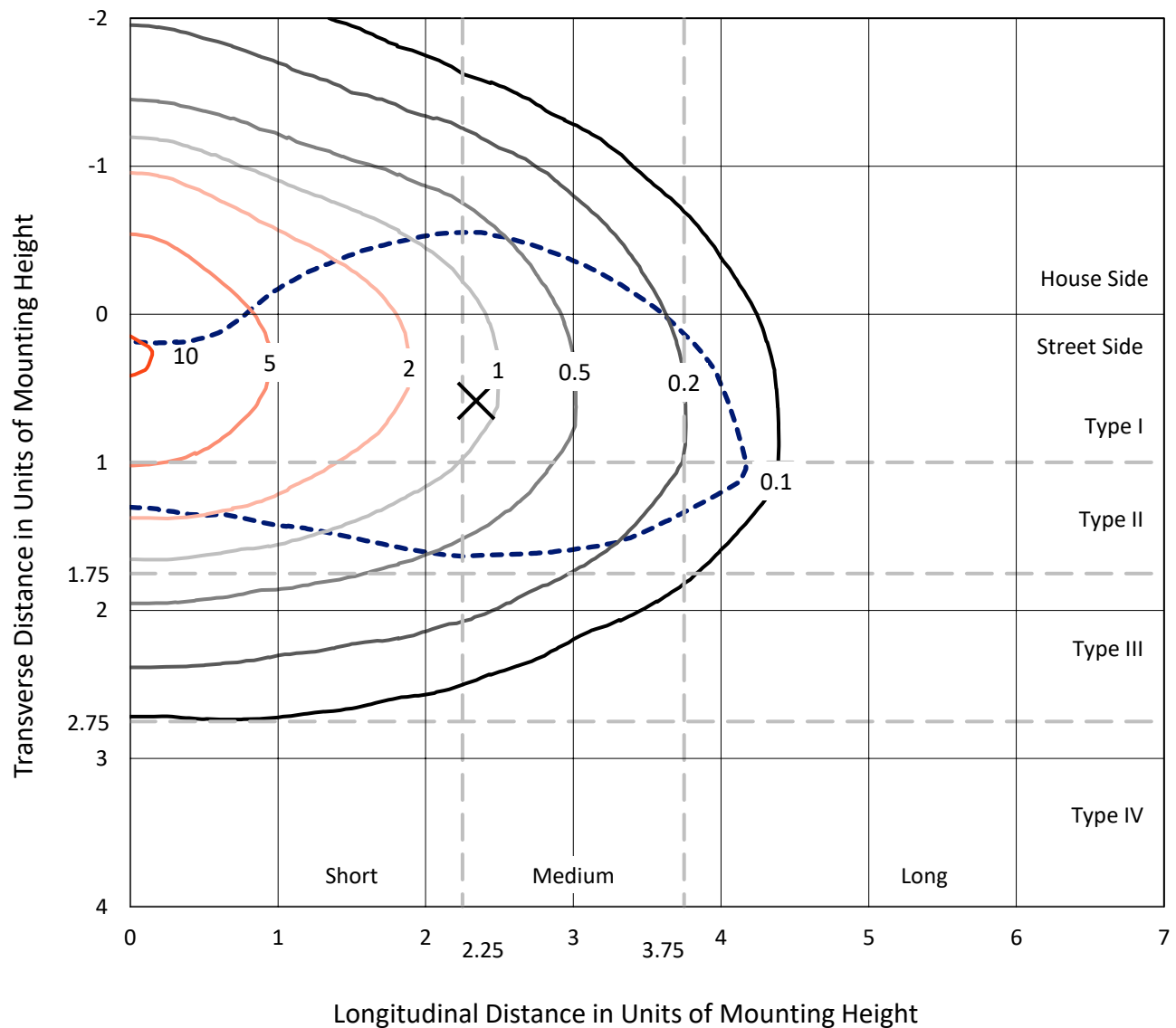


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Iso-Footcandle Lines of Horizontal Illumination

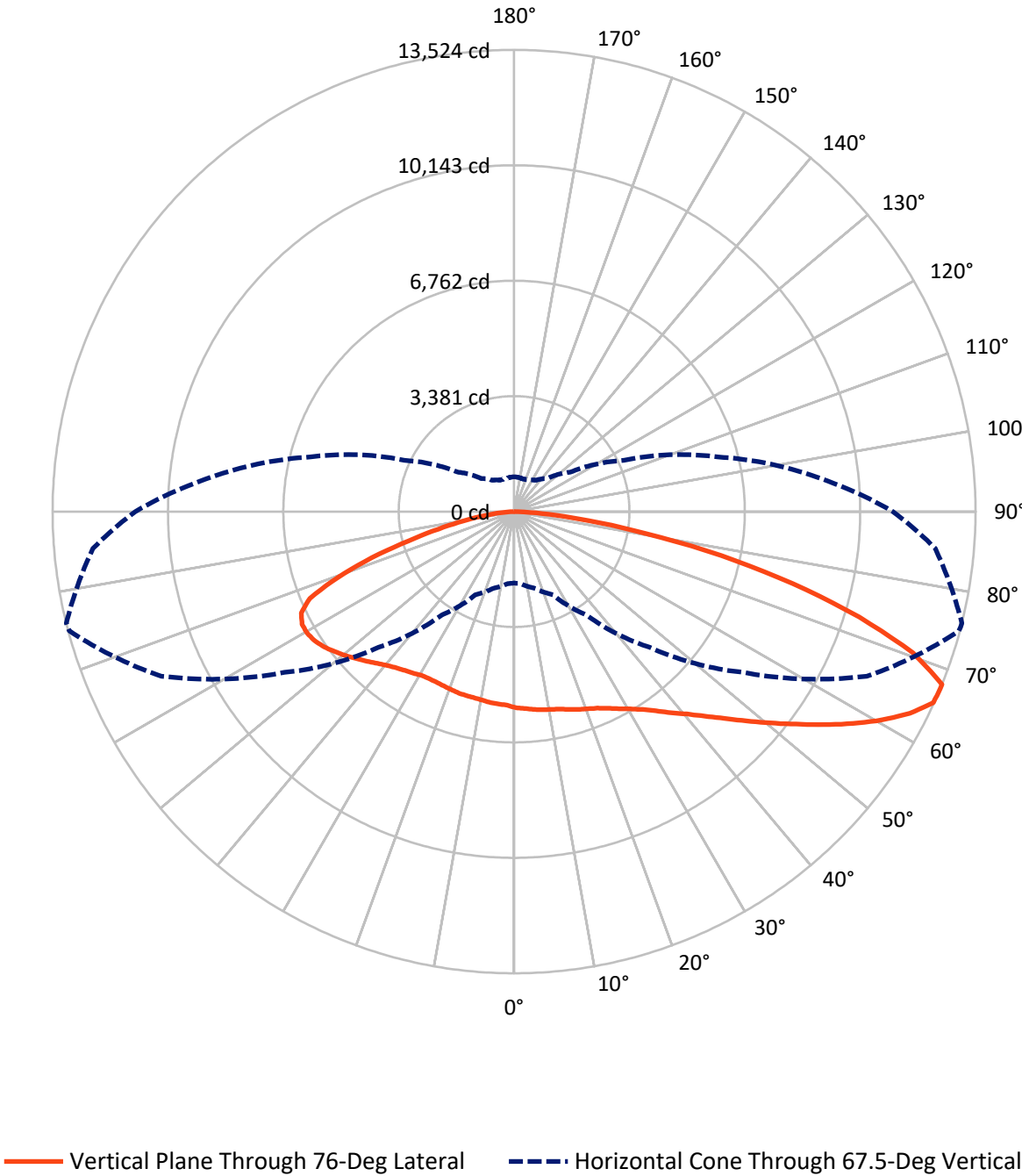
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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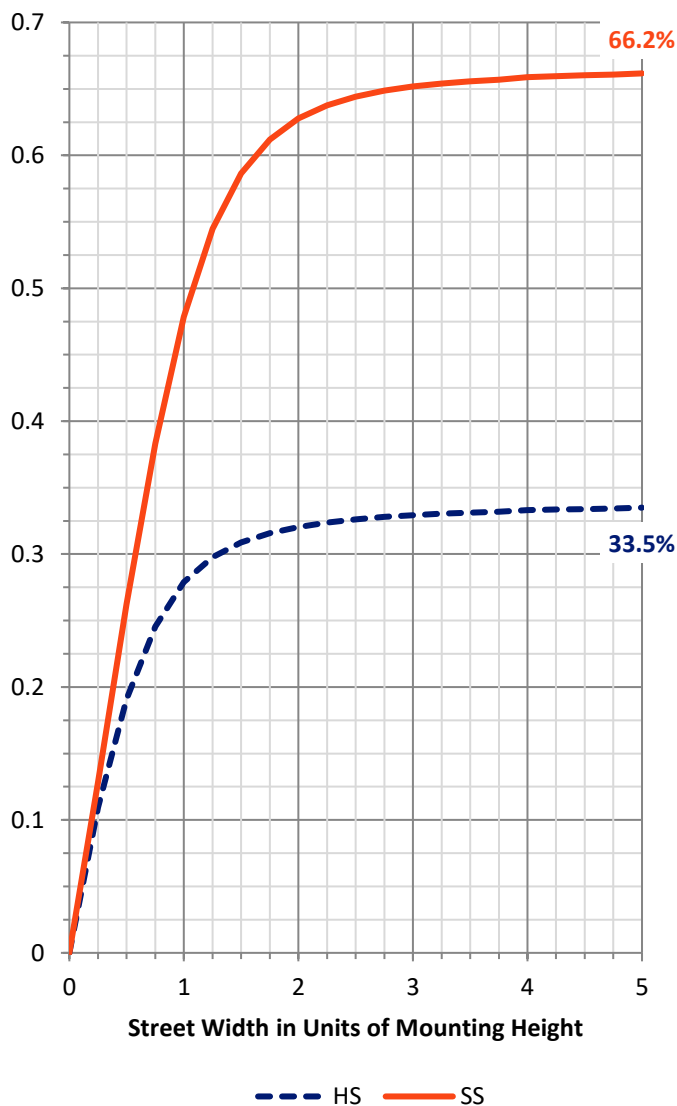
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9614.7	0.0	9614.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	18839.2	0.0	18839.2
	% Fixture	66.2	0.0	66.2
Total	Lumens	28454.0	0.0	28454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.2	1.9
10°-20°	1694.4	6.0
20°-30°	2878.8	10.1
30°-40°	4096.2	14.4
40°-50°	5173.3	18.2
50°-60°	5601.1	19.7
60°-70°	5209.6	18.3
70°-80°	2798.0	9.8
80°-90°	448.4	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°	28454.0	100.0
0°-180°	28454.0	100.0

Coefficient of Utilization



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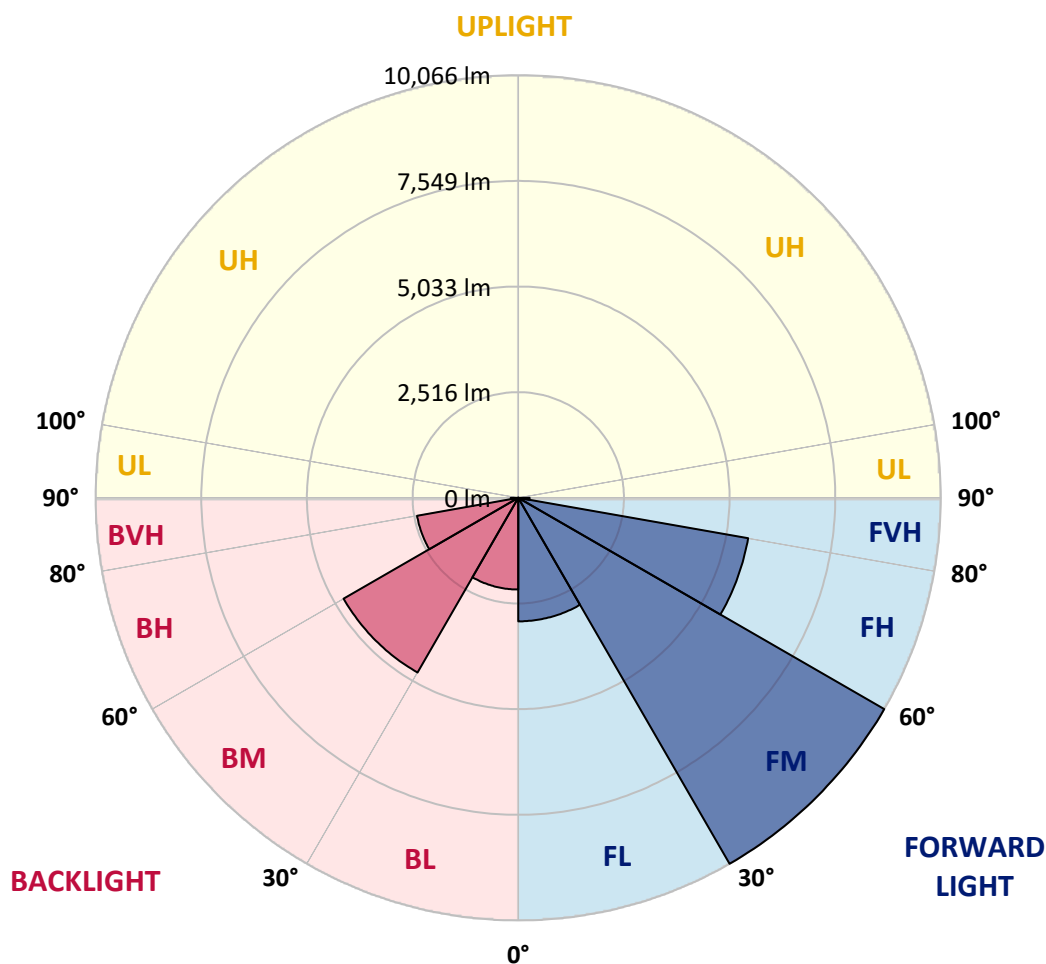
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2942.4	10.3			
FM	(30°-60°)	10065.9	35.4			
FH	(60°-80°)	5559.6	19.5			G3/7500
FVH	(80°-90°)	271.2	1.0			G3/500
BL	(0°-30°)	2185.0	7.7	B3/2500		
BM	(30°-60°)	4804.6	16.9	B3/5000		
BH	(60°-80°)	2448.0	8.6	B3/2500		G3/2500
BVH	(80°-90°)	177.1	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5747.6	5747.6	5747.6	5747.6	5747.6	5747.6	5747.6	5747.6	5747.6	5747.6	5747.6
2.5°	5922.0	5911.4	5869.1	5874.4	5874.4	5869.1	5805.8	5779.3	5779.3	5774.1	5715.9
5°	6133.3	6117.4	6069.9	6059.3	6038.2	6011.8	5911.4	5853.3	5826.9	5821.6	5742.4
7.5°	6381.6	6360.4	6302.3	6270.6	6217.8	6149.1	6022.3	5932.5	5869.1	5863.9	5752.9
10°	6629.9	6608.7	6540.1	6481.9	6408.0	6297.1	6133.3	6001.2	5900.8	5890.3	5758.2
12.5°	6925.7	6904.6	6820.0	6746.1	6635.1	6487.2	6270.6	6091.0	5953.7	5937.8	5774.1
15°	7237.4	7205.7	7121.2	7036.6	6899.3	6709.1	6450.3	6212.5	6038.2	6011.8	5821.6
17.5°	7496.2	7454.0	7385.3	7300.8	7147.6	6925.7	6629.9	6334.0	6117.4	6096.3	5869.1
20°	7718.1	7686.4	7612.5	7533.2	7369.5	7126.4	6798.9	6455.5	6191.4	6165.0	5906.1
22.5°	7929.4	7887.2	7844.9	7786.8	7607.2	7337.8	6994.4	6603.5	6286.5	6254.8	5953.7
25°	8172.4	8124.9	8109.0	8077.3	7866.0	7591.3	7232.1	6788.3	6418.6	6381.6	6038.2
27.5°	8473.6	8420.7	8389.0	8389.0	8135.5	7850.2	7485.7	7004.9	6571.8	6540.1	6143.9
30°	8790.5	8727.1	8679.6	8679.6	8394.3	8109.0	7734.0	7221.5	6746.1	6709.1	6281.2
32.5°	9070.5	9007.1	8954.3	8949.0	8653.2	8367.9	7992.8	7459.3	6957.4	6909.9	6450.3
35°	9287.1	9229.0	9181.4	9192.0	8912.0	8632.0	8283.4	7776.2	7221.5	7168.7	6672.1
37.5°	9419.2	9398.0	9371.6	9408.6	9149.7	8885.6	8584.5	8082.6	7522.7	7475.1	6946.8
40°	9487.8	9472.0	9577.6	9625.2	9350.5	9112.8	8885.6	8399.6	7850.2	7797.4	7263.8
42.5°	9588.2	9720.3	9762.5	9752.0	9498.4	9287.1	9160.3	8743.0	8235.8	8188.3	7644.2
45°	9229.0	9197.3	9429.7	9556.5	9509.0	9398.0	9419.2	9155.0	8684.9	8637.3	8082.6
47.5°	8748.3	8706.0	8838.1	9149.7	9334.6	9440.3	9651.6	9582.9	9202.6	9160.3	8595.1
50°	7734.0	7792.1	8283.4	8700.7	9065.2	9429.7	9847.1	10042.5	9773.1	9730.8	9144.5
52.5°	6608.7	6666.8	7179.3	8140.7	8737.7	9350.5	9989.7	10502.1	10391.2	10343.6	9730.8
55°	5789.9	5916.7	6497.8	7195.1	8272.8	9102.2	10074.2	10972.3	11056.8	11014.6	10370.1
57.5°	4976.4	5071.5	5509.9	6128.0	7638.9	8669.0	10068.9	11410.8	11754.1	11711.9	11019.8
60°	4020.2	4141.7	4490.3	5156.0	6793.6	8151.3	9921.0	11754.1	12425.1	12393.4	11648.5
62.5°	3365.1	3402.1	3650.4	4226.2	5705.4	7496.2	9588.2	11939.0	13032.6	13011.4	12213.7
65°	2710.1	2715.3	2942.5	3423.2	4654.1	6682.7	9023.0	11870.4	13492.2	13502.7	12620.5
67.5°	2092.0	2118.4	2324.4	2688.9	3697.9	5626.1	8214.7	11405.5	13497.5	13523.9	12388.1
70°	1447.5	1468.6	1780.3	2134.2	2858.0	4485.1	7121.2	10174.6	12388.1	12409.2	11104.4
72.5°	1019.6	1030.1	1363.0	1706.3	2234.6	3381.0	5372.6	8415.4	10560.2	10576.1	9339.9
75°	760.7	771.3	961.5	1294.3	1711.6	2340.3	3671.5	6445.0	8436.6	8436.6	7374.7
77.5°	538.8	544.1	623.4	892.8	1141.1	1579.5	2208.2	4220.9	6191.4	6202.0	5372.6
80°	364.5	369.8	406.8	602.2	713.2	855.8	1199.2	2213.5	3904.0	3919.8	3412.7
82.5°	190.2	200.7	227.2	306.4	359.2	475.4	618.1	1125.2	2160.6	2202.9	2049.7
85°	74.0	74.0	84.5	100.4	132.1	184.9	285.3	427.9	977.3	1009.0	903.4
87.5°	26.4	26.4	31.7	31.7	37.0	42.3	47.5	63.4	110.9	110.9	105.7
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°	5747.6	5747.6	5747.6	5747.6	5747.6	5747.6	5747.6	5747.6	5747.6	5747.6	5747.6
2.5°	5694.8	5694.8	5668.4	5679.0	5673.7	5663.1	5652.6	5668.4	5652.6	5615.6	5610.3
5°	5705.4	5694.8	5652.6	5647.3	5631.4	5610.3	5583.9	5594.4	5568.0	5536.3	5531.1
7.5°	5710.7	5689.5	5631.4	5610.3	5578.6	5536.3	5494.1	5494.1	5457.1	5425.4	5420.1
10°	5700.1	5673.7	5594.4	5552.2	5494.1	5430.7	5372.6	5356.7	5314.5	5277.5	5277.5
12.5°	5705.4	5668.4	5568.0	5499.4	5420.1	5340.9	5266.9	5245.8	5208.8	5171.8	5166.5
15°	5737.1	5684.3	5557.5	5467.7	5351.4	5261.6	5182.4	5166.5	5134.8	5108.4	5108.4
17.5°	5768.8	5700.1	5541.6	5414.8	5272.2	5171.8	5097.9	5097.9	5076.7	5060.9	5060.9
20°	5784.6	5705.4	5509.9	5340.9	5177.1	5071.5	5002.8	5013.3	5008.1	5002.8	5002.8
22.5°	5821.6	5715.9	5483.5	5272.2	5076.7	4965.8	4902.4	4918.3	4913.0	4913.0	4918.3
25°	5879.7	5742.4	5462.4	5208.8	4981.6	4860.1	4791.5	4802.0	4802.0	4802.0	4802.0
27.5°	5959.0	5795.2	5457.1	5150.7	4886.6	4749.2	4664.7	4664.7	4643.5	4648.8	4654.1
30°	6080.5	5895.6	5467.7	5097.9	4786.2	4611.9	4511.5	4495.6	4490.3	4500.9	4506.2
32.5°	6228.4	6032.9	5531.1	5060.9	4680.5	4458.7	4331.9	4326.6	4310.7	4310.7	4310.7
35°	6413.3	6165.0	5589.2	5055.6	4574.9	4294.9	4157.5	4141.7	4104.7	4088.9	4088.9
37.5°	6651.0	6371.0	5657.8	5018.6	4485.1	4136.4	3972.6	3919.8	3877.5	3872.3	3872.3
40°	6941.5	6603.5	5758.2	4976.4	4390.0	3972.6	3756.0	3666.2	3671.5	3692.7	3692.7
42.5°	7284.9	6888.7	5885.0	4955.2	4252.6	3803.6	3502.5	3396.8	3433.8	3454.9	3460.2
45°	7686.4	7226.8	6027.6	4928.8	4125.8	3613.4	3233.1	3101.0	3116.8	3122.1	3127.4
47.5°	8151.3	7601.9	6175.5	4907.7	3983.2	3375.7	2937.2	2762.9	2757.6	2725.9	2736.5
50°	8637.3	7998.1	6328.7	4870.7	3808.9	3095.7	2625.5	2419.5	2377.2	2329.7	2335.0
52.5°	9155.0	8404.9	6471.4	4812.6	3592.3	2810.4	2329.7	2107.8	2023.3	1970.5	1981.0
55°	9725.6	8822.2	6608.7	4722.8	3365.1	2525.2	2065.6	1838.4	1732.7	1690.5	1695.8
57.5°	10248.6	9223.7	6709.1	4611.9	3116.8	2266.3	1833.1	1611.2	1542.6	1537.3	1542.6
60°	10755.7	9561.8	6751.4	4458.7	2863.3	2028.6	1616.5	1447.5	1399.9	1426.3	1431.6
62.5°	11183.6	9778.4	6730.2	4252.6	2604.4	1801.4	1442.2	1320.7	1289.0	1341.8	1347.1
65°	11431.9	9847.1	6582.3	3956.8	2324.4	1579.5	1278.4	1146.4	1130.5	1162.2	1178.1
67.5°	11104.4	9419.2	6180.8	3550.0	2012.7	1373.5	1119.9	1014.3	987.9	1014.3	1014.3
70°	9841.8	8161.9	5229.9	2905.5	1669.4	1172.8	972.0	898.1	876.9	898.1	892.8
72.5°	8198.8	6788.3	4120.6	2266.3	1315.4	987.9	845.2	776.6	755.4	734.3	723.7
75°	6360.4	5156.0	2990.0	1664.1	993.2	792.4	707.9	644.5	591.7	612.8	602.2
77.5°	4659.4	3618.7	2118.4	1151.6	713.2	612.8	554.7	507.1	470.2	512.4	507.1
80°	3000.6	2340.3	1415.8	771.3	491.3	427.9	406.8	380.4	417.3	544.1	554.7
82.5°	1833.1	1484.5	845.2	501.9	322.2	285.3	264.1	264.1	427.9	470.2	475.4
85°	818.8	787.1	459.6	258.9	179.6	163.8	147.9	190.2	174.3	126.8	132.1
87.5°	132.1	137.4	100.4	89.8	68.7	68.7	52.8	37.0	26.4	15.8	15.8
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)