

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: P842246

Luminaire Tested: **ARCH4-290-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842246
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: ARCH4-290-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41084 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 289.7
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



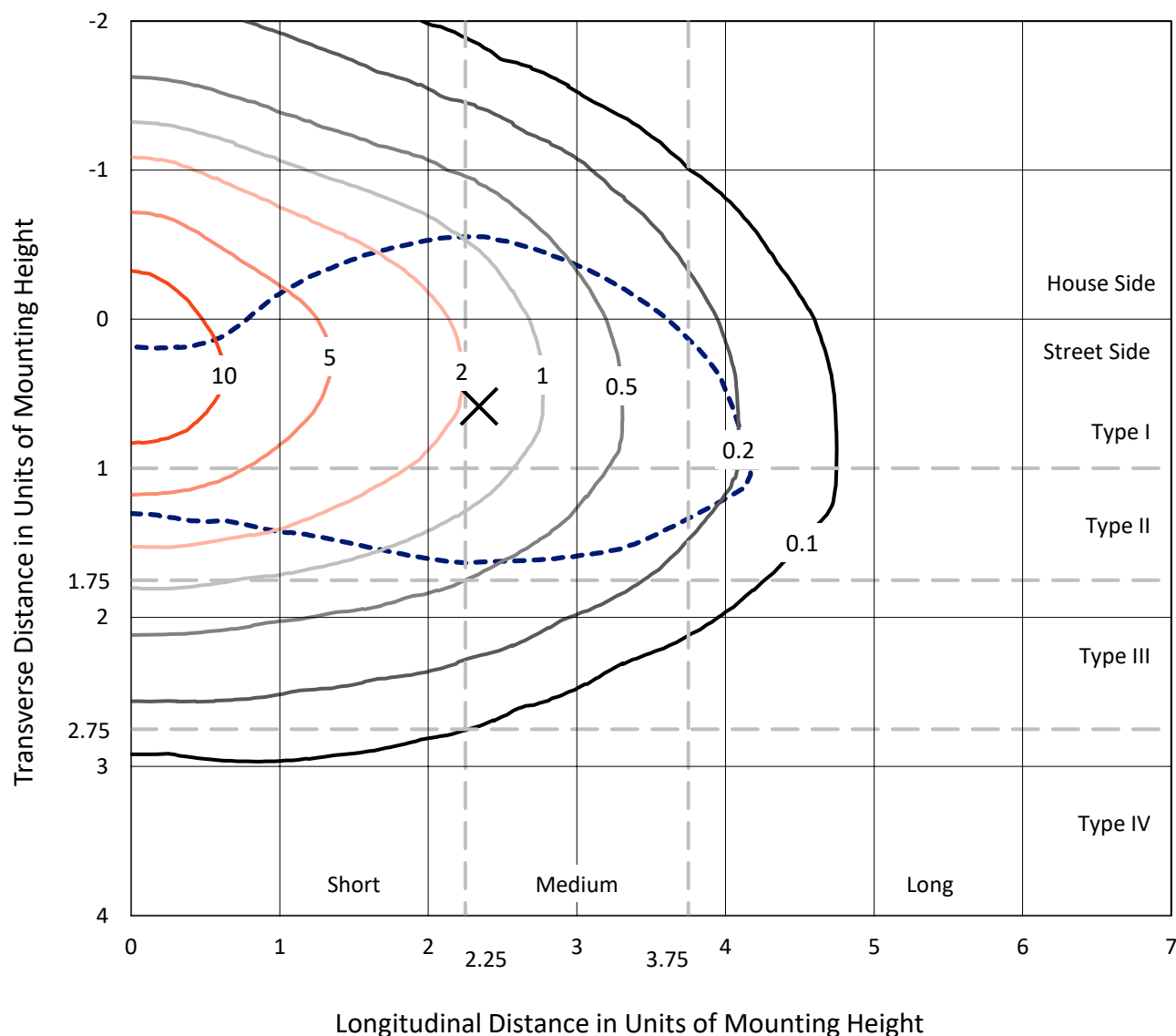
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

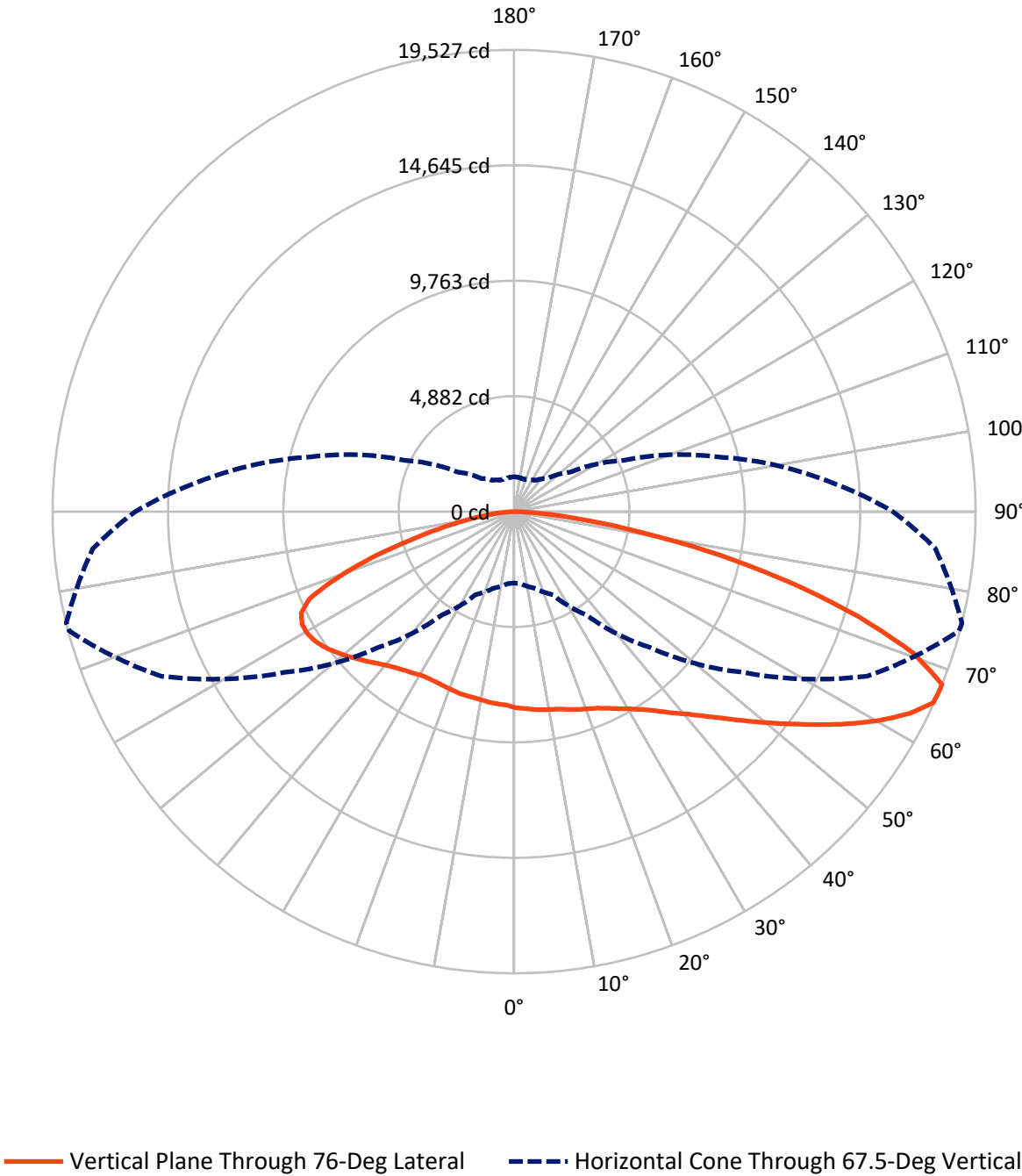
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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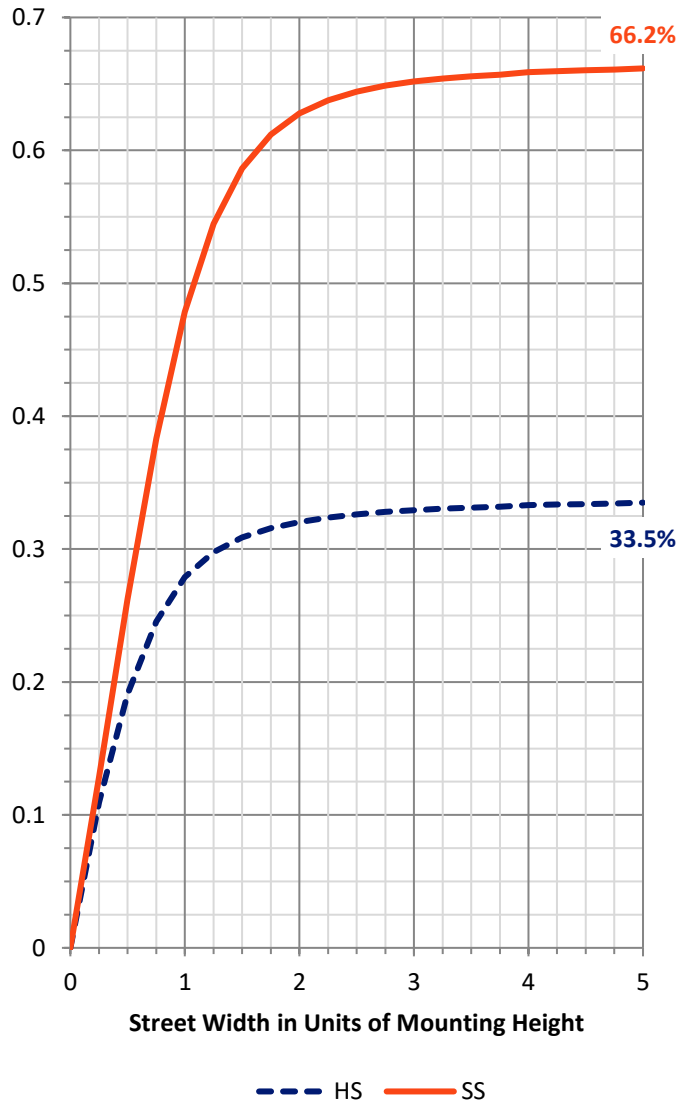
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13882.5	0.0	13882.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	27201.5	0.0	27201.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	41084.0	0.0	41084.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	800.2	1.9
10°-20°	2446.5	6.0
20°-30°	4156.7	10.1
30°-40°	5914.4	14.4
40°-50°	7469.6	18.2
50°-60°	8087.3	19.7
60°-70°	7522.0	18.3
70°-80°	4040.0	9.8
80°-90°	647.4	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°	41084.0	100.0
0°-180°	41084.0	100.0

Coefficient of Utilization



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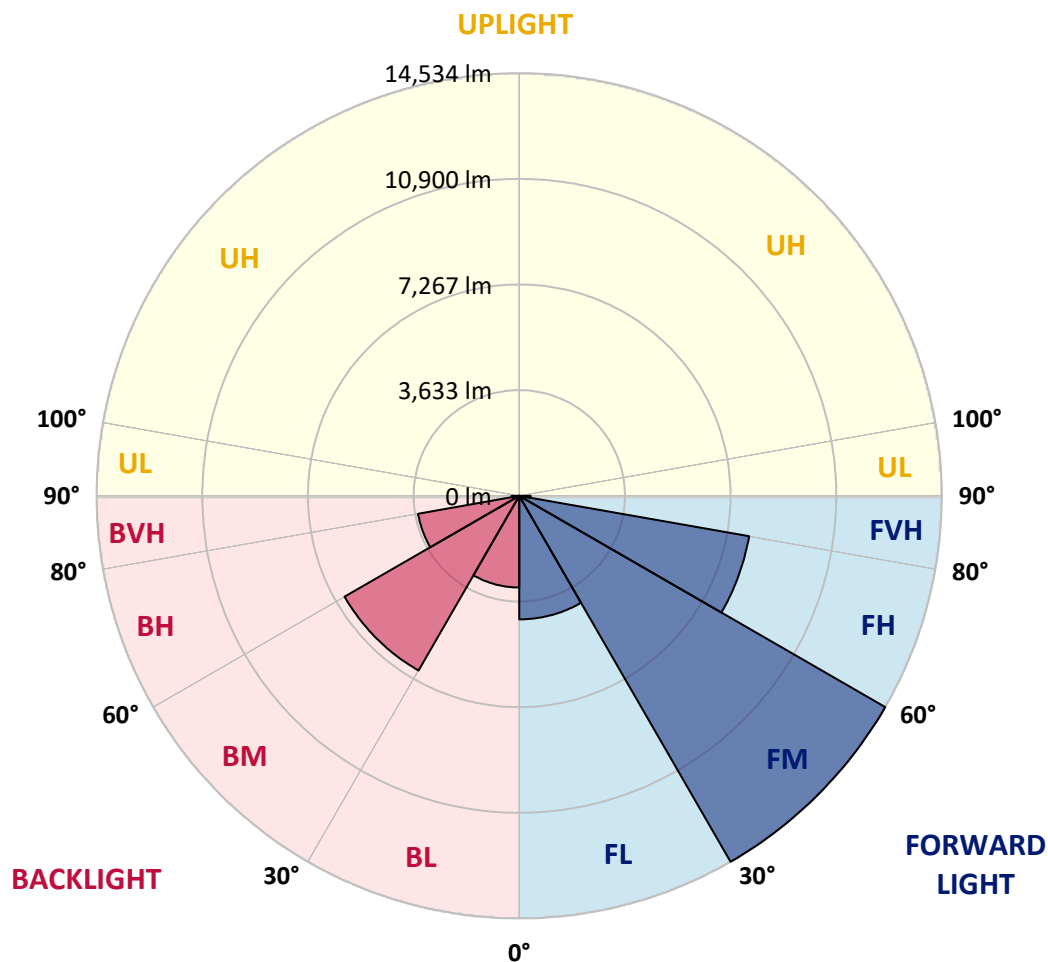
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4248.5	10.3			
FM	(30°-60°)	14534.0	35.4			
FH	(60°-80°)	8027.4	19.5			G4/12000
FVH	(80°-90°)	391.6	1.0			G3/500
BL	(0°-30°)	3154.8	7.7	B4/5000		
BM	(30°-60°)	6937.3	16.9	B4/8500		
BH	(60°-80°)	3534.6	8.6	B4/5000		G4/5000
BVH	(80°-90°)	255.8	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8298.9	8298.9	8298.9	8298.9	8298.9	8298.9	8298.9	8298.9	8298.9	8298.9	8298.9
2.5°	8550.6	8535.3	8474.3	8481.9	8481.9	8474.3	8382.8	8344.6	8344.6	8337.0	8253.1
5°	8855.7	8832.8	8764.2	8748.9	8718.4	8680.3	8535.3	8451.4	8413.3	8405.7	8291.2
7.5°	9214.2	9183.7	9099.8	9054.0	8977.7	8878.6	8695.5	8565.8	8474.3	8466.7	8306.5
10°	9572.7	9542.2	9443.0	9359.1	9252.3	9092.2	8855.7	8665.0	8520.1	8504.8	8314.1
12.5°	9999.8	9969.3	9847.3	9740.5	9580.3	9366.7	9054.0	8794.7	8596.4	8573.5	8337.0
15°	10449.9	10404.1	10282.1	10160.0	9961.7	9687.1	9313.4	8970.1	8718.4	8680.3	8405.7
17.5°	10823.6	10762.6	10663.4	10541.4	10320.2	9999.8	9572.7	9145.5	8832.8	8802.3	8474.3
20°	11144.0	11098.2	10991.4	10877.0	10640.6	10289.7	9816.8	9321.0	8939.6	8901.5	8527.7
22.5°	11449.1	11388.1	11327.1	11243.1	10983.8	10594.8	10099.0	9534.6	9076.9	9031.1	8596.4
25°	11800.0	11731.3	11708.4	11662.7	11357.6	10960.9	10442.2	9801.5	9267.6	9214.2	8718.4
27.5°	12234.7	12158.5	12112.7	12112.7	11746.6	11334.7	10808.4	10114.3	9488.8	9443.0	8871.0
30°	12692.4	12600.9	12532.2	12532.2	12120.3	11708.4	11166.9	10427.0	9740.5	9687.1	9069.3
32.5°	13096.7	13005.1	12928.9	12921.2	12494.1	12082.2	11540.6	10770.2	10045.6	9977.0	9313.4
35°	13409.4	13325.5	13256.8	13272.1	12867.8	12463.6	11960.1	11227.9	10427.0	10350.7	9633.7
37.5°	13600.1	13569.6	13531.4	13584.8	13211.1	12829.7	12394.9	11670.3	10861.8	10793.1	10030.4
40°	13699.2	13676.4	13828.9	13897.6	13500.9	13157.7	12829.7	12128.0	11334.7	11258.4	10488.0
42.5°	13844.2	14034.9	14095.9	14080.6	13714.5	13409.4	13226.3	12623.8	11891.5	11822.8	11037.2
45°	13325.5	13279.7	13615.3	13798.4	13729.8	13569.6	13600.1	13218.7	12539.8	12471.2	11670.3
47.5°	12631.4	12570.4	12761.0	13211.1	13478.0	13630.6	13935.7	13836.5	13287.4	13226.3	12410.2
50°	11166.9	11250.8	11960.1	12562.7	13089.0	13615.3	14217.9	14500.2	14111.1	14050.1	13203.5
52.5°	9542.2	9626.1	10366.0	11754.2	12616.1	13500.9	14423.9	15163.8	15003.6	14934.9	14050.1
55°	8359.9	8543.0	9382.0	10388.9	11944.9	13142.4	14545.9	15842.6	15964.7	15903.6	14973.1
57.5°	7185.2	7322.5	7955.6	8848.1	11029.6	12517.0	14538.3	16475.7	16971.5	16910.5	15911.3
60°	5804.6	5980.1	6483.5	7444.6	9809.2	11769.5	14324.7	16971.5	17940.2	17894.5	16819.0
62.5°	4858.8	4912.2	5270.7	6102.1	8237.9	10823.6	13844.2	17238.5	18817.4	18786.9	17635.1
65°	3913.0	3920.6	4248.6	4942.7	6720.0	9649.0	13028.0	17139.3	19481.0	19496.3	18222.4
67.5°	3020.5	3058.7	3356.2	3882.5	5339.4	8123.4	11861.0	16468.1	19488.6	19526.8	17886.8
70°	2090.0	2120.5	2570.5	3081.6	4126.6	6475.9	10282.1	14690.8	17886.8	17917.3	16033.3
72.5°	1472.1	1487.4	1967.9	2463.7	3226.5	4881.7	7757.3	12150.8	15247.7	15270.5	13485.7
75°	1098.4	1113.6	1388.2	1868.8	2471.4	3379.0	5301.2	9305.7	12181.3	12181.3	10648.2
77.5°	778.0	785.6	900.1	1289.1	1647.6	2280.7	3188.4	6094.5	8939.6	8954.9	7757.3
80°	526.3	533.9	587.3	869.6	1029.7	1235.7	1731.5	3196.0	5636.8	5659.7	4927.5
82.5°	274.6	289.9	328.0	442.4	518.7	686.5	892.4	1624.7	3119.7	3180.7	2959.5
85°	106.8	106.8	122.0	144.9	190.7	267.0	411.9	617.8	1411.1	1456.9	1304.3
87.5°	38.1	38.1	45.8	45.8	53.4	61.0	68.6	91.5	160.2	160.2	152.6
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°	8298.9	8298.9	8298.9	8298.9	8298.9	8298.9	8298.9	8298.9	8298.9	8298.9	8298.9
2.5°	8222.6	8222.6	8184.5	8199.7	8192.1	8176.8	8161.6	8184.5	8161.6	8108.2	8100.6
5°	8237.9	8222.6	8161.6	8154.0	8131.1	8100.6	8062.4	8077.7	8039.5	7993.8	7986.1
7.5°	8245.5	8215.0	8131.1	8100.6	8054.8	7993.8	7932.8	7932.8	7879.4	7833.6	7826.0
10°	8230.2	8192.1	8077.7	8016.7	7932.8	7841.2	7757.3	7734.4	7673.4	7620.0	7620.0
12.5°	8237.9	8184.5	8039.5	7940.4	7826.0	7711.5	7604.8	7574.3	7520.9	7467.5	7459.8
15°	8283.6	8207.3	8024.3	7894.6	7726.8	7597.1	7482.7	7459.8	7414.1	7375.9	7375.9
17.5°	8329.4	8230.2	8001.4	7818.3	7612.4	7467.5	7360.7	7360.7	7330.2	7307.3	7307.3
20°	8352.3	8237.9	7955.6	7711.5	7475.1	7322.5	7223.4	7238.6	7231.0	7223.4	7223.4
22.5°	8405.7	8253.1	7917.5	7612.4	7330.2	7170.0	7078.5	7101.3	7093.7	7093.7	7101.3
25°	8489.6	8291.2	7887.0	7520.9	7192.9	7017.4	6918.3	6933.5	6933.5	6933.5	6933.5
27.5°	8604.0	8367.5	7879.4	7437.0	7055.6	6857.3	6735.2	6735.2	6704.7	6712.3	6720.0
30°	8779.4	8512.5	7894.6	7360.7	6910.6	6658.9	6514.0	6491.1	6483.5	6498.8	6506.4
32.5°	8993.0	8710.8	7986.1	7307.3	6758.1	6437.7	6254.7	6247.0	6224.2	6224.2	6224.2
35°	9260.0	8901.5	8070.0	7299.7	6605.5	6201.3	6003.0	5980.1	5926.7	5903.8	5903.8
37.5°	9603.2	9198.9	8169.2	7246.3	6475.9	5972.4	5736.0	5659.7	5598.7	5591.1	5591.1
40°	10022.7	9534.6	8314.1	7185.2	6338.6	5736.0	5423.3	5293.6	5301.2	5331.7	5331.7
42.5°	10518.5	9946.4	8497.2	7154.7	6140.3	5491.9	5057.1	4904.6	4958.0	4988.5	4996.1
45°	11098.2	10434.6	8703.1	7116.6	5957.2	5217.3	4668.1	4477.4	4500.3	4507.9	4515.6
47.5°	11769.5	10976.2	8916.7	7086.1	5751.2	4874.1	4241.0	3989.3	3981.6	3935.9	3951.1
50°	12471.2	11548.3	9137.9	7032.7	5499.5	4469.8	3790.9	3493.5	3432.4	3363.8	3371.4
52.5°	13218.7	12135.6	9343.9	6948.8	5186.8	4057.9	3363.8	3043.4	2921.4	2845.1	2860.4
55°	14042.5	12738.2	9542.2	6819.1	4858.8	3646.0	2982.4	2654.4	2501.9	2440.8	2448.5
57.5°	14797.6	13317.9	9687.1	6658.9	4500.3	3272.3	2646.8	2326.4	2227.3	2219.6	2227.3
60°	15529.9	13806.0	9748.1	6437.7	4134.2	2929.0	2334.1	2090.0	2021.3	2059.5	2067.1
62.5°	16147.7	14118.8	9717.6	6140.3	3760.4	2601.0	2082.3	1906.9	1861.1	1937.4	1945.0
65°	16506.2	14217.9	9504.0	5713.1	3356.2	2280.7	1845.9	1655.2	1632.3	1678.1	1701.0
67.5°	16033.3	13600.1	8924.3	5125.8	2906.1	1983.2	1617.1	1464.5	1426.4	1464.5	1464.5
70°	14210.3	11784.7	7551.4	4195.2	2410.3	1693.3	1403.5	1296.7	1266.2	1296.7	1289.1
72.5°	11838.1	9801.5	5949.6	3272.3	1899.3	1426.4	1220.4	1121.3	1090.8	1060.2	1045.0
75°	9183.7	7444.6	4317.2	2402.7	1434.0	1144.1	1022.1	930.6	854.3	884.8	869.6
77.5°	6727.6	5224.9	3058.7	1662.8	1029.7	884.8	800.9	732.3	678.9	739.9	732.3
80°	4332.5	3379.0	2044.2	1113.6	709.4	617.8	587.3	549.2	602.6	785.6	800.9
82.5°	2646.8	2143.4	1220.4	724.6	465.3	411.9	381.4	381.4	617.8	678.9	686.5
85°	1182.3	1136.5	663.6	373.8	259.3	236.5	213.6	274.6	251.7	183.1	190.7
87.5°	190.7	198.3	144.9	129.7	99.2	99.2	76.3	53.4	38.1	22.9	22.9
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)