

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: P841938

Luminaire Tested: **ARCH4-250-722-U-T2R**

Issue Date: 5/27/2024

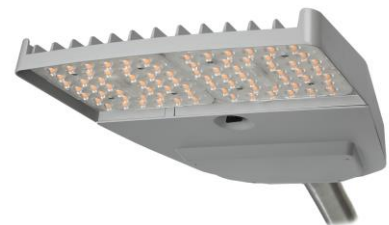
Test Information

Test Method: LM-79-08
Report Number: P841938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-250-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32275 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G3

Input Watts (W): 249.5
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



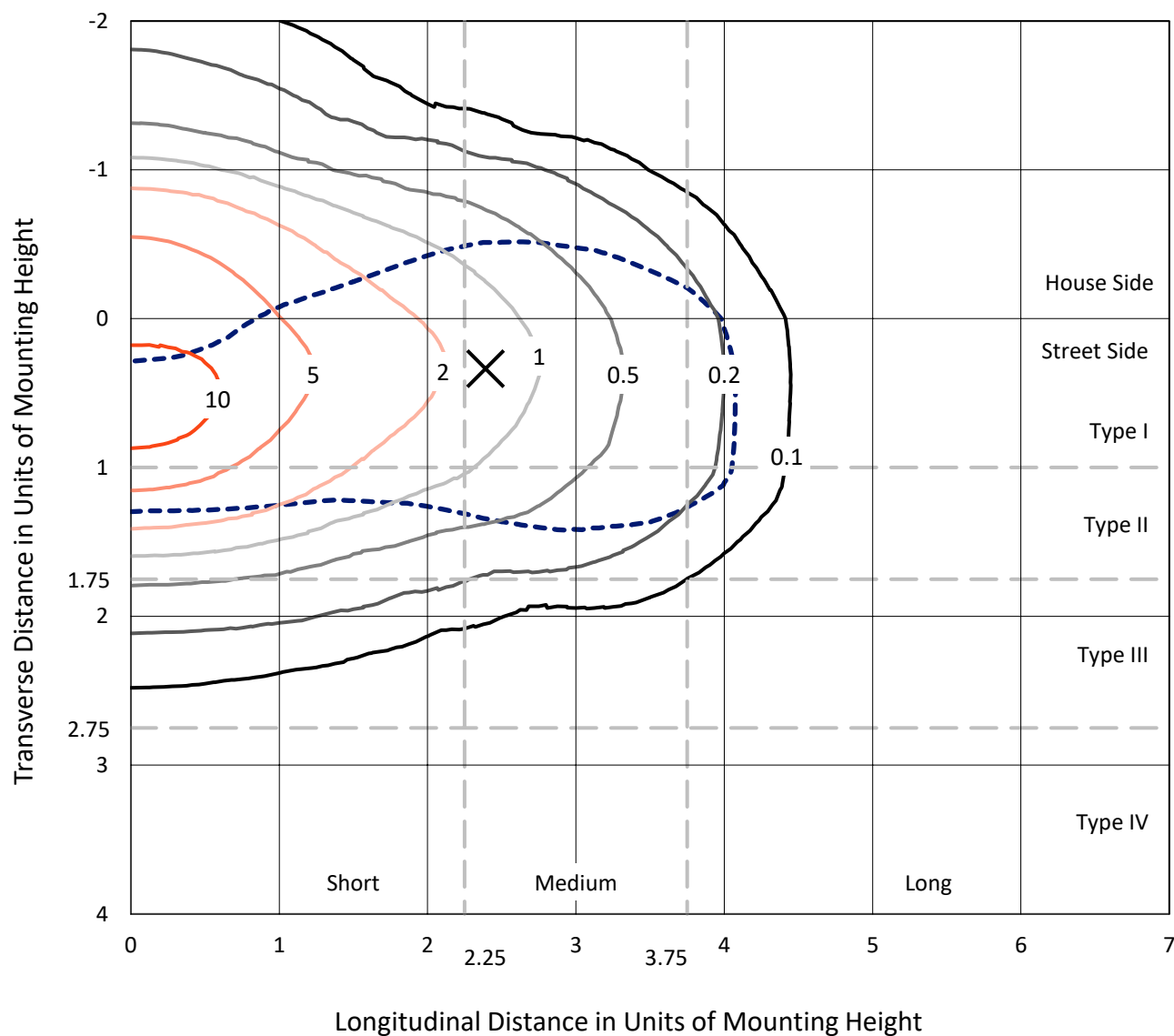
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

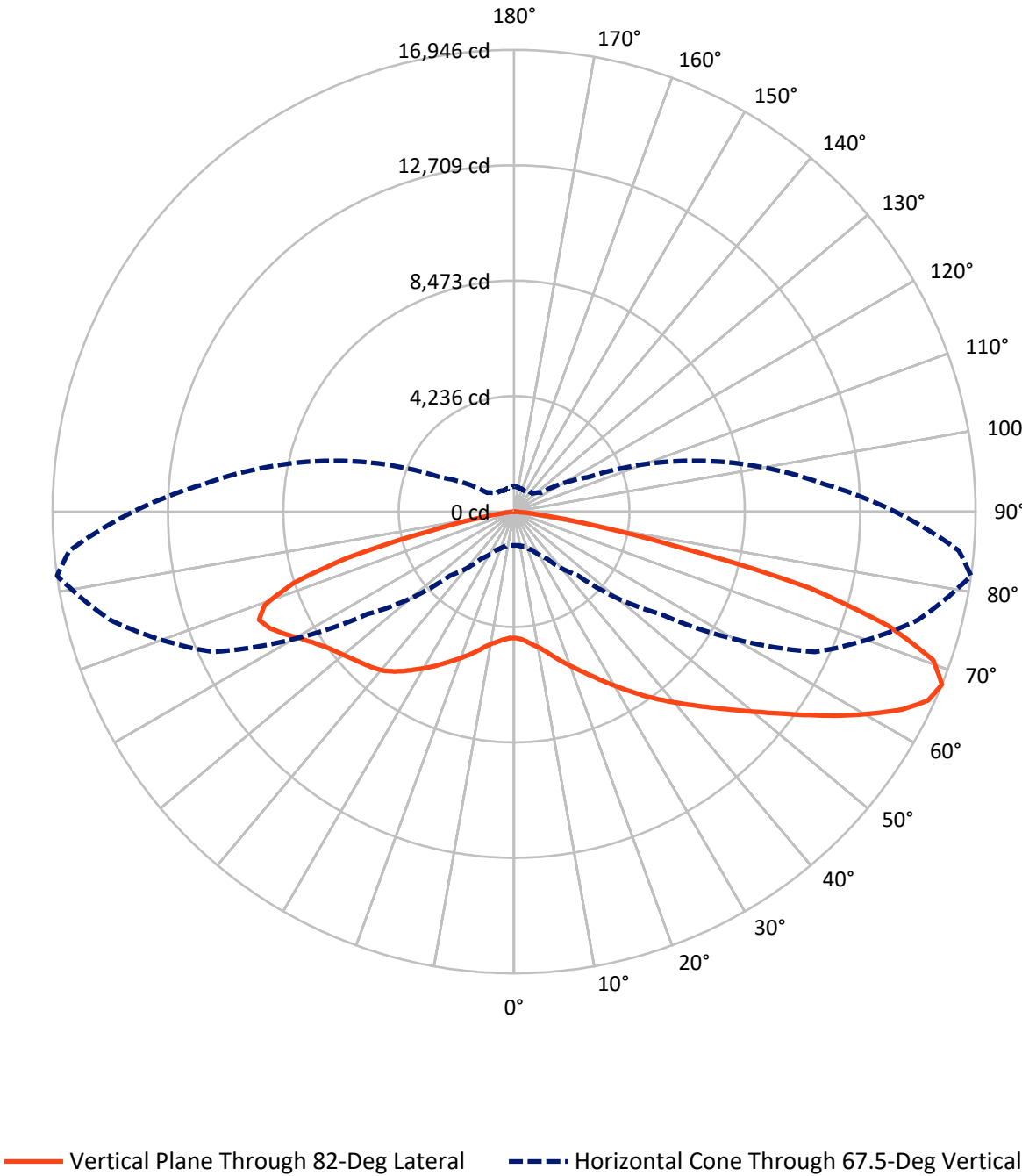
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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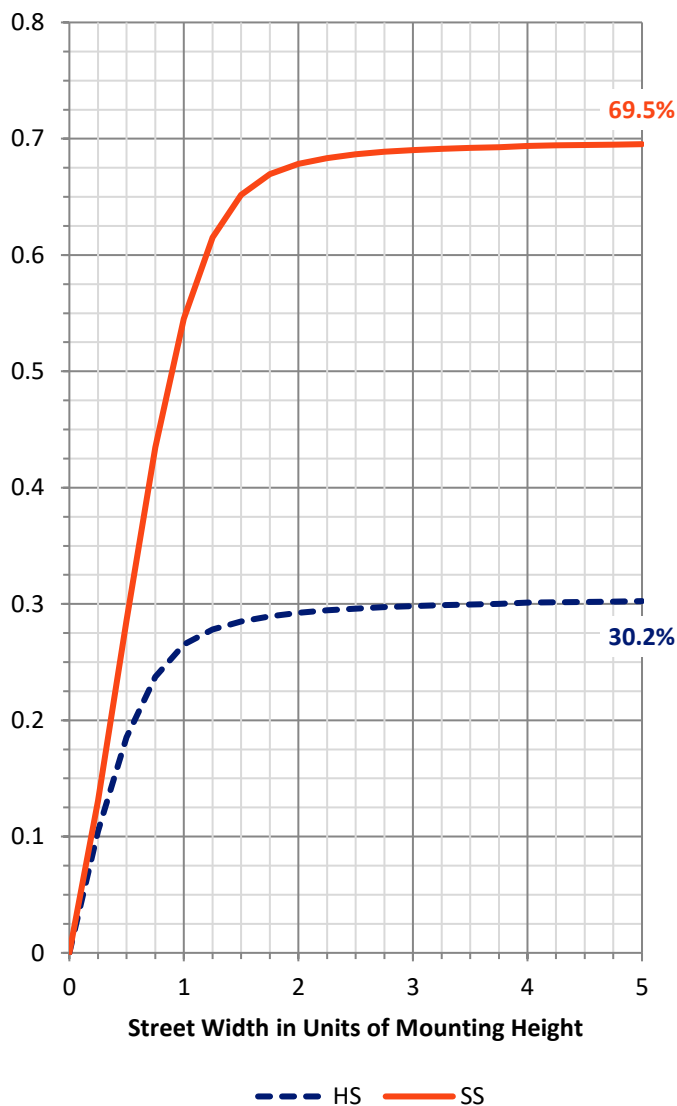
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9829.0	0.0	9829.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	22446.0	0.0	22446.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	32275.0	0.0	32275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.5	1.5
10°-20°	1727.1	5.4
20°-30°	3471.0	10.8
30°-40°	5452.5	16.9
40°-50°	6642.2	20.6
50°-60°	6276.1	19.4
60°-70°	5182.6	16.1
70°-80°	2822.2	8.7
80°-90°	221.9	0.7
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°	32275.0	100.0
0°-180°	32275.0	100.0

Coefficient of Utilization



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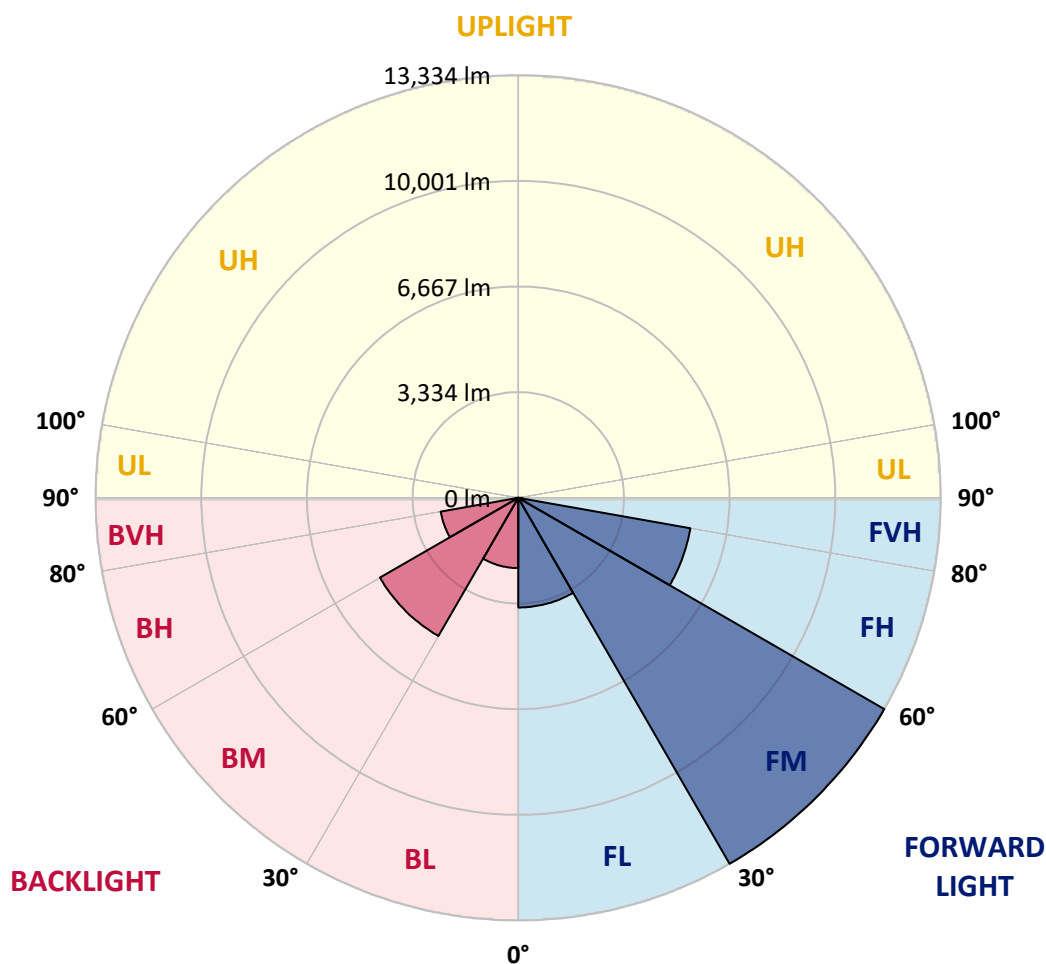
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3461.1	10.7			
FM	(30°-60°)	13334.2	41.3			
FH	(60°-80°)	5517.0	17.1			G3/7500
FVH	(80°-90°)	133.7	0.4			G2/225
BL	(0°-30°)	2216.5	6.9	B3/2500		
BM	(30°-60°)	5036.6	15.6	B4/8500		
BH	(60°-80°)	2487.8	7.7	B3/2500		G3/2500
BVH	(80°-90°)	88.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4639.5	4639.5	4639.5	4639.5	4639.5	4639.5	4639.5	4639.5	4639.5	4639.5	4639.5
2.5°	4850.4	4850.4	4887.9	4887.9	4855.1	4803.5	4789.5	4733.2	4681.7	4681.7	4686.4
5°	5314.4	5309.7	5337.8	5300.3	5220.6	5117.5	5047.2	4925.4	4822.3	4789.5	4784.8
7.5°	5881.4	5876.7	5890.8	5829.9	5679.9	5511.2	5370.6	5173.8	5005.1	4934.8	4916.0
10°	6514.1	6509.4	6495.3	6392.2	6190.7	5928.3	5717.4	5445.6	5192.5	5080.0	5056.6
12.5°	7240.5	7231.1	7198.3	7048.3	6771.8	6434.4	6129.8	5778.3	5440.9	5286.2	5234.7
15°	8051.2	8037.1	7976.2	7793.4	7423.2	6996.8	6603.1	6153.2	5740.8	5539.3	5469.0
17.5°	8904.1	8904.1	8810.4	8538.6	8126.2	7596.6	7109.2	6537.5	6054.8	5806.4	5722.1
20°	9771.1	9766.4	9649.3	9321.2	8833.8	8224.6	7606.0	6978.0	6378.2	6078.2	5975.1
22.5°	10684.9	10675.6	10530.3	10155.4	9574.3	8885.4	8163.7	7413.9	6734.3	6373.5	6242.3
25°	11734.7	11720.6	11542.5	11083.3	10394.4	9616.4	8791.6	7924.7	7142.0	6701.5	6546.9
27.5°	12850.0	12831.3	12620.4	12086.2	11331.7	10394.4	9485.2	8515.1	7591.9	7067.1	6893.7
30°	13843.6	13829.5	13599.9	13051.6	12184.6	11167.6	10146.0	9105.6	8065.3	7456.0	7240.5
32.5°	14593.4	14593.4	14387.2	13848.2	12948.5	11908.1	10811.5	9663.3	8557.3	7873.1	7620.1
35°	15048.0	15062.0	14883.9	14452.8	13604.6	12606.4	11500.4	10319.4	9082.2	8318.3	8046.5
37.5°	15113.6	15160.4	15057.3	14766.8	14059.1	13187.5	12175.2	10952.1	9625.8	8768.2	8463.6
40°	14809.0	14841.8	14846.4	14734.0	14246.6	13604.6	12770.4	11622.2	10202.2	9241.5	8890.1
42.5°	14199.7	14223.2	14265.3	14298.1	14110.7	13787.3	13225.0	12245.5	10816.2	9724.2	9311.8
45°	13412.4	13407.7	13478.0	13618.6	13609.2	13684.2	13478.0	12812.6	11453.5	10272.5	9780.5
47.5°	12236.1	12212.7	12461.1	12779.8	12939.1	13290.6	13482.7	13257.8	12147.1	10877.1	10314.7
50°	10394.4	10371.0	10914.6	11664.4	12133.0	12667.3	13225.0	13524.9	12873.5	11556.6	10895.8
52.5°	8154.3	8130.9	8819.8	10131.9	11153.6	11931.5	12704.8	13585.8	13562.4	12315.8	11551.9
55°	6064.2	6045.4	6715.6	8135.6	9789.8	11078.6	12067.4	13426.5	14209.1	13187.5	12348.6
57.5°	4274.0	4264.6	4845.7	6022.0	8037.1	10038.2	11453.5	13117.2	14804.3	14134.1	13248.4
60°	2999.3	2985.2	3407.0	4316.2	6078.2	8468.3	10844.3	12704.8	15249.5	15066.7	14204.4
62.5°	2019.8	2010.5	2310.4	3069.6	4316.2	6518.8	9921.1	12428.3	15502.5	16004.0	15169.8
65°	1532.4	1527.8	1663.7	2080.8	3055.5	4681.7	8454.2	12395.5	15535.3	16706.9	15989.9
67.5°	1237.2	1241.9	1316.9	1555.9	2113.6	3327.3	6556.2	12189.3	15361.9	16945.9	16388.3
70°	1012.3	1012.3	1045.1	1204.4	1560.6	2244.8	4578.6	11252.0	14879.3	16322.7	15914.9
72.5°	773.3	777.9	881.0	974.8	1176.3	1574.6	2933.7	9311.8	13740.5	14391.9	14082.6
75°	613.9	609.2	670.2	801.4	913.8	1124.7	1799.6	6678.1	11692.5	11247.3	11050.5
77.5°	440.5	435.8	482.7	595.2	693.6	796.7	1073.2	3369.5	6359.4	5843.9	5698.6
80°	299.9	290.6	332.7	412.4	459.3	468.6	524.9	1293.4	2774.3	2615.0	2582.2
82.5°	154.7	154.7	178.1	234.3	239.0	243.7	234.3	417.1	918.5	857.6	820.1
85°	60.9	60.9	65.6	79.7	79.7	84.4	84.4	107.8	98.4	93.7	89.0
87.5°	4.7	4.7	9.4	9.4	14.1	14.1	14.1	18.7	23.4	23.4	23.4
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°	4639.5	4639.5	4639.5	4639.5	4639.5	4639.5	4639.5	4639.5	4639.5	4639.5	4639.5
2.5°	4677.0	4658.3	4597.3	4583.3	4573.9	4559.8	4564.5	4531.7	4517.7	4522.4	4503.6
5°	4761.4	4728.6	4653.6	4620.8	4611.4	4597.3	4611.4	4588.0	4564.5	4573.9	4564.5
7.5°	4878.5	4831.7	4737.9	4705.1	4700.4	4686.4	4705.1	4686.4	4667.6	4677.0	4658.3
10°	5000.4	4939.4	4836.3	4803.5	4803.5	4798.9	4817.6	4789.5	4770.7	4775.4	4766.0
12.5°	5178.4	5098.8	4986.3	4958.2	4944.1	4958.2	4962.9	4925.4	4892.6	4897.3	4883.2
15°	5394.0	5305.0	5183.1	5141.0	5131.6	5126.9	5108.2	5061.3	5019.1	5014.4	5000.4
17.5°	5628.3	5515.9	5370.6	5328.4	5286.2	5272.2	5225.3	5164.4	5098.8	5098.8	5080.0
20°	5853.3	5726.8	5553.4	5492.4	5431.5	5375.3	5295.6	5197.2	5112.8	5098.8	5080.0
22.5°	6097.0	5947.0	5745.5	5656.5	5548.7	5436.2	5300.3	5169.1	5061.3	5037.9	5023.8
25°	6368.8	6181.3	5942.3	5811.1	5637.7	5464.3	5262.8	5094.1	4967.6	4930.1	4920.7
27.5°	6668.7	6443.8	6153.2	5961.1	5708.0	5436.2	5178.4	4976.9	4822.3	4775.4	4761.4
30°	6973.3	6706.2	6345.4	6064.2	5708.0	5347.2	5023.8	4789.5	4611.4	4545.8	4536.4
32.5°	7277.9	6978.0	6518.8	6120.4	5651.8	5197.2	4822.3	4545.8	4344.3	4264.6	4283.3
35°	7643.5	7277.9	6678.1	6143.8	5558.0	5014.4	4592.7	4269.3	4063.1	3992.8	4006.9
37.5°	8023.1	7577.9	6804.6	6125.1	5426.8	4808.2	4334.9	4020.9	3763.2	3641.3	3655.4
40°	8351.1	7849.7	6893.7	6059.5	5258.1	4573.9	4081.8	3669.4	3313.3	3196.1	3182.1
42.5°	8660.4	8051.2	6940.5	5961.1	5066.0	4302.1	3721.0	3191.4	2835.3	2690.0	2694.7
45°	8983.8	8248.0	6921.8	5829.9	4827.0	3983.4	3257.0	2722.8	2408.8	2277.6	2282.3
47.5°	9354.0	8458.9	6903.0	5689.3	4536.4	3571.0	2811.8	2310.4	2038.6	1944.8	1935.5
50°	9747.7	8693.2	6879.6	5515.9	4213.1	3111.8	2371.3	1926.1	1696.5	1635.5	1621.5
52.5°	10192.9	8946.3	6865.5	5309.7	3824.1	2624.4	1977.7	1588.7	1434.0	1391.9	1387.2
55°	10727.1	9241.5	6884.3	5061.3	3355.4	2165.1	1644.9	1368.4	1265.3	1241.9	1237.2
57.5°	11378.5	9621.1	6940.5	4770.7	2863.4	1766.8	1401.2	1232.5	1166.9	1148.2	1148.2
60°	12086.2	10052.3	7043.6	4442.7	2371.3	1457.5	1241.9	1124.7	1096.6	1120.0	1120.0
62.5°	12850.0	10558.4	7226.4	4044.3	1912.0	1232.5	1115.4	1035.7	1016.9	1063.8	1068.5
65°	13557.7	11050.5	7343.6	3566.3	1518.4	1068.5	1016.9	946.6	956.0	1002.9	998.2
67.5°	13993.5	11458.2	7179.5	2966.5	1204.4	946.6	913.8	852.9	876.4	913.8	918.5
70°	13726.4	11228.6	6368.8	2240.1	942.0	824.8	801.4	763.9	782.6	829.5	848.2
72.5°	12418.9	10057.0	4953.5	1513.7	759.2	693.6	703.0	684.2	707.6	749.8	792.0
75°	10080.4	7601.3	3322.6	970.1	599.9	590.5	604.5	590.5	599.9	642.0	665.5
77.5°	5262.8	3706.9	1654.3	604.5	445.2	459.3	482.7	487.4	515.5	524.9	534.2
80°	2455.7	1668.4	688.9	337.4	295.2	323.4	370.2	374.9	384.3	398.3	403.0
82.5°	801.4	501.4	318.7	182.8	168.7	182.8	239.0	285.9	290.6	318.7	318.7
85°	84.4	51.6	70.3	75.0	65.6	79.7	107.8	103.1	46.9	28.1	28.1
87.5°	23.4	18.7	23.4	23.4	18.7	18.7	14.1	4.7	0.0	0.0	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)