

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: P842016

Luminaire Tested: **ARCH4-260-722-U-T4W**

Issue Date: 5/27/2024

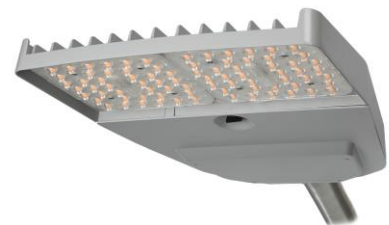
Test Information

Test Method: LM-79-08
Report Number: P842016
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: ARCH4-260-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32315 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 259.2
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

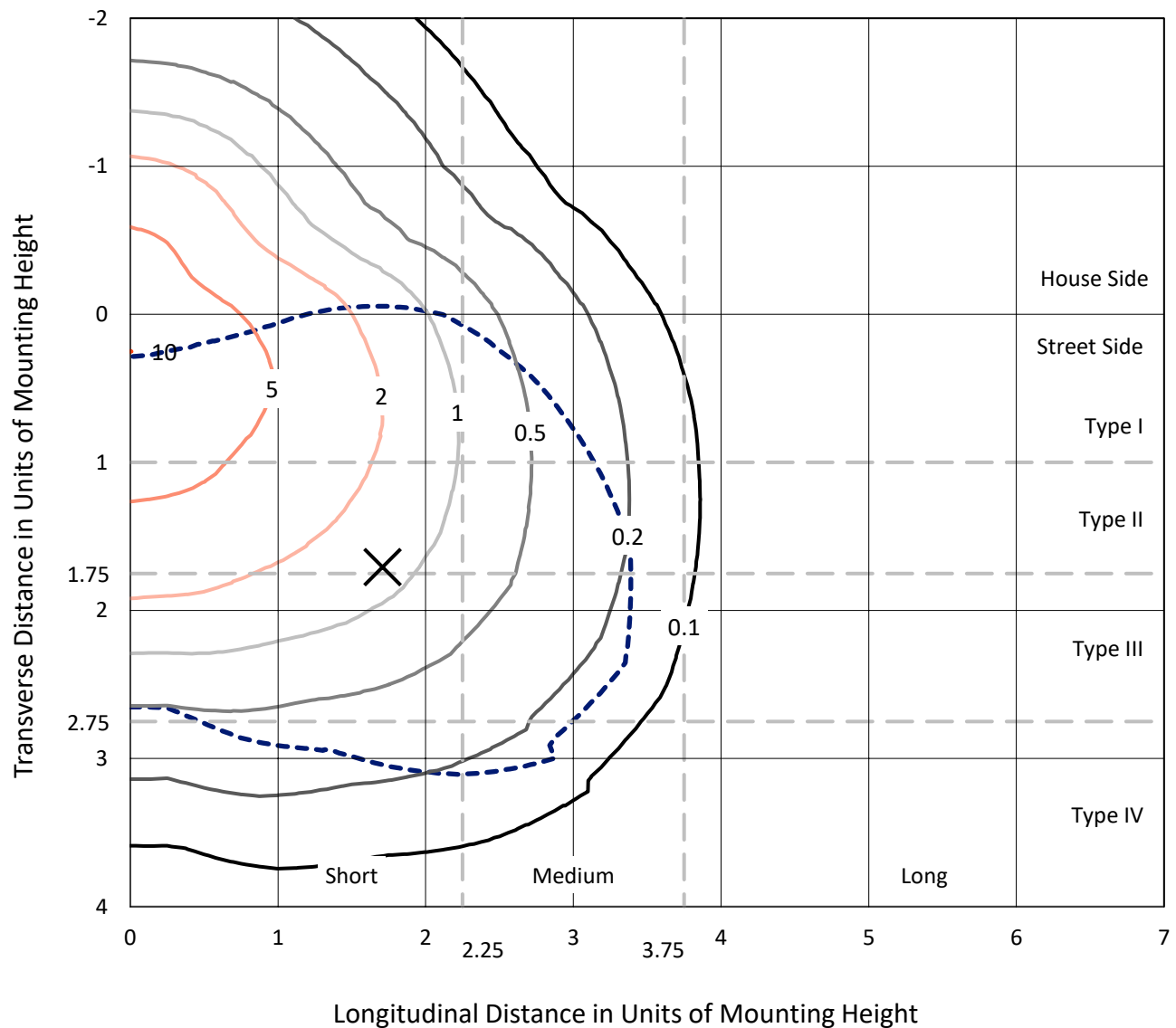


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Iso-Footcandle Lines of Horizontal Illumination

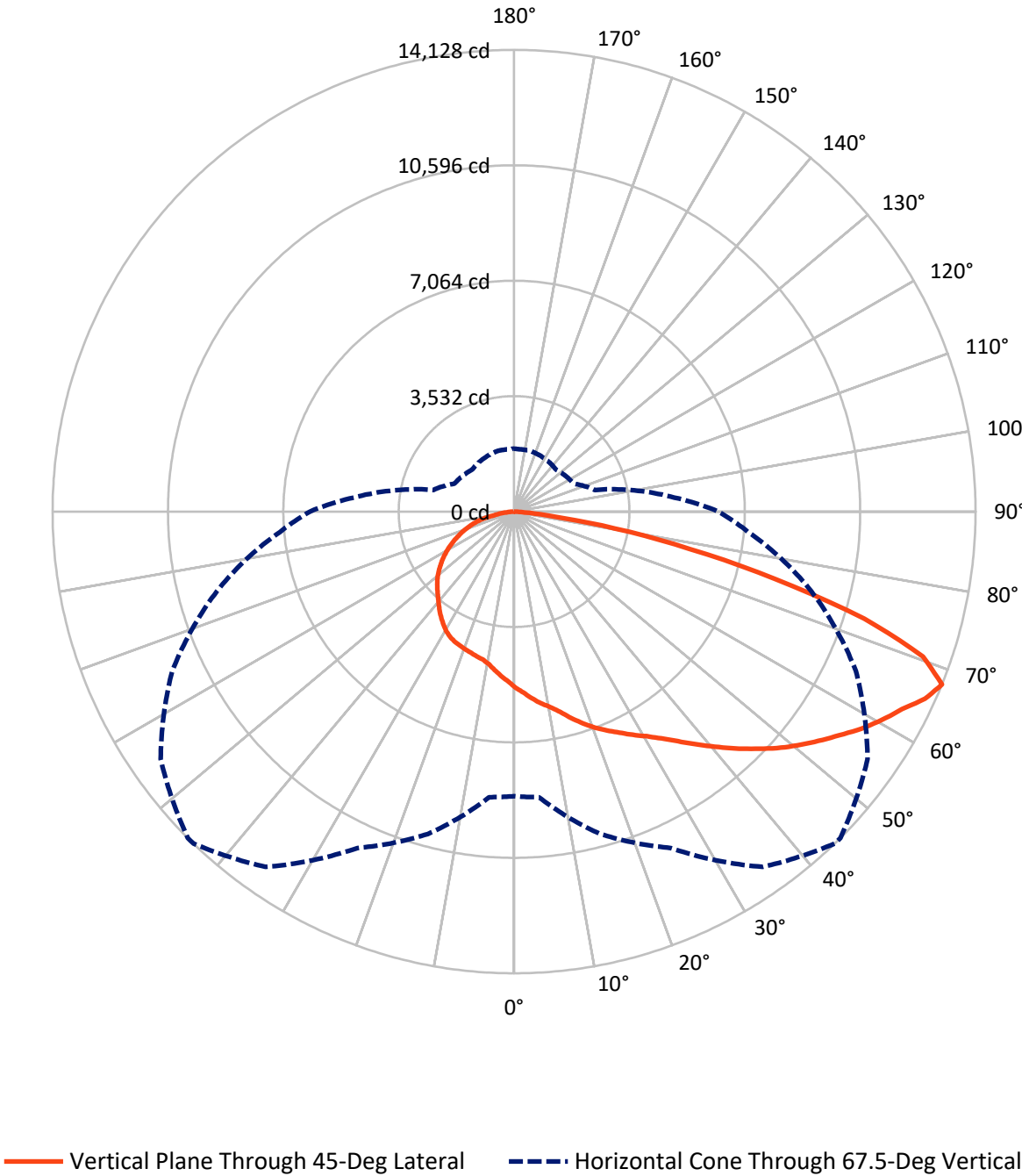
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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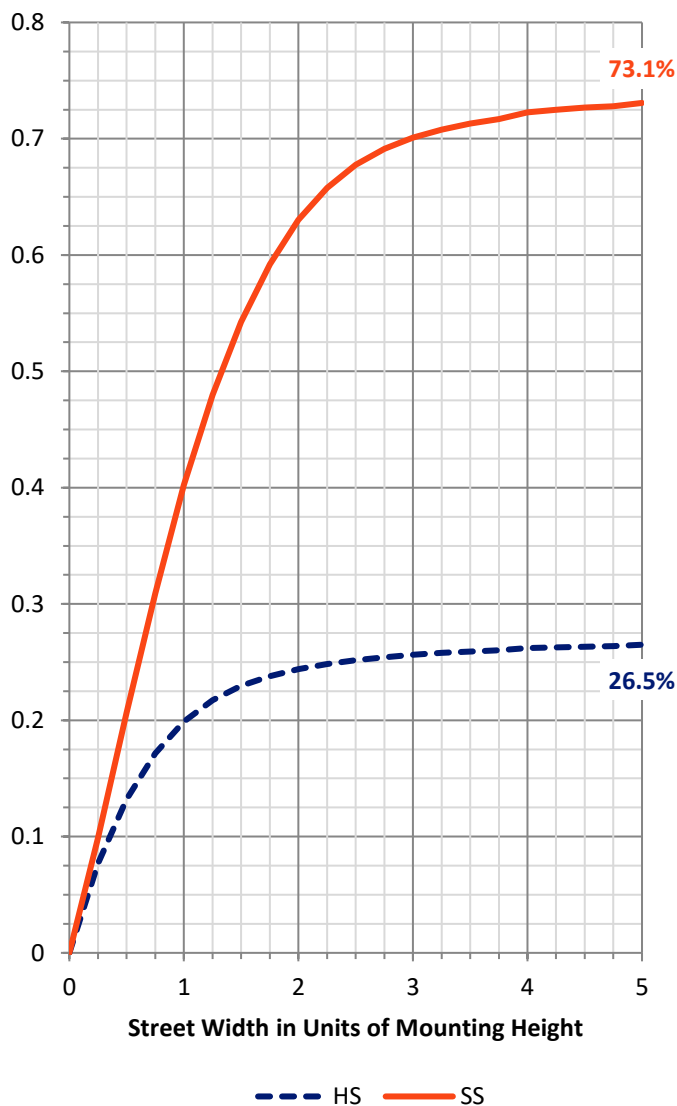
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8633.0	0.0	8633.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	23682.0	0.0	23682.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	32315.0	0.0	32315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.0	1.6
10°-20°	1594.0	4.9
20°-30°	2751.5	8.5
30°-40°	4057.5	12.6
40°-50°	5497.2	17.0
50°-60°	6718.8	20.8
60°-70°	6929.5	21.4
70°-80°	3795.5	11.7
80°-90°	454.9	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°	32315.0	100.0
0°-180°	32315.0	100.0

Coefficient of Utilization



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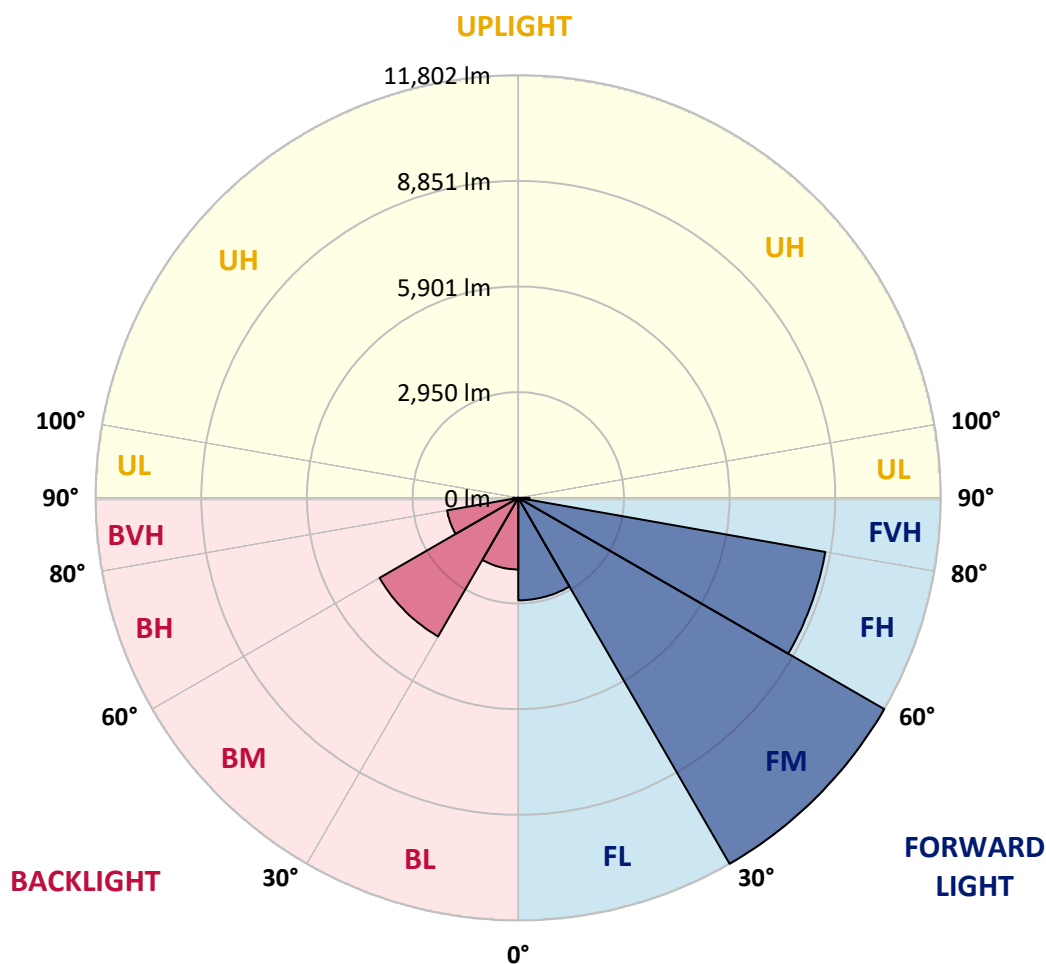
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2860.7	8.9			
FM	(30°-60°)	11801.7	36.5			
FH	(60°-80°)	8706.1	26.9			G4/12000
FVH	(80°-90°)	313.4	1.0			G3/500
BL	(0°-30°)	2000.8	6.2	B3/2500		
BM	(30°-60°)	4471.7	13.8	B3/5000		
BH	(60°-80°)	2018.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	141.5	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5389.5	5389.5	5389.5	5389.5	5389.5	5389.5	5389.5	5389.5	5389.5	5389.5	5389.5
2.5°	5625.6	5620.6	5630.5	5596.1	5551.8	5546.9	5546.9	5517.4	5483.0	5414.1	5360.0
5°	5891.1	5881.3	5886.2	5837.0	5778.0	5748.5	5743.6	5679.7	5601.0	5492.8	5394.4
7.5°	6137.0	6127.1	6122.2	6068.1	5979.6	5930.4	5925.5	5832.1	5738.7	5571.5	5428.9
10°	6368.1	6358.3	6348.4	6274.7	6166.5	6092.7	6082.9	5964.9	5846.9	5640.3	5458.4
12.5°	6663.1	6643.5	6633.6	6545.1	6387.8	6309.1	6294.3	6137.0	5989.5	5738.7	5517.4
15°	6972.9	6958.2	6943.4	6859.8	6682.8	6579.6	6555.0	6358.3	6156.7	5866.5	5605.9
17.5°	7204.1	7189.3	7189.3	7115.6	6953.3	6835.3	6815.6	6579.6	6328.8	5984.5	5674.7
20°	7346.7	7331.9	7346.7	7302.4	7179.5	7081.1	7061.5	6800.8	6500.9	6092.7	5733.8
22.5°	7449.9	7435.2	7459.8	7440.1	7351.6	7292.6	7277.8	7022.1	6677.9	6205.8	5792.8
25°	7631.9	7631.9	7631.9	7597.5	7513.9	7494.2	7494.2	7272.9	6904.1	6353.3	5881.3
27.5°	7995.8	7976.1	7951.5	7853.2	7710.6	7705.6	7735.2	7528.6	7164.7	6545.1	5989.5
30°	8531.8	8521.9	8428.5	8222.0	7981.0	7956.4	7976.1	7804.0	7445.0	6746.7	6112.4
32.5°	9225.1	9190.7	8998.9	8689.1	8344.9	8231.8	8271.2	8089.2	7740.1	6953.3	6230.4
35°	9716.9	9726.7	9589.0	9308.7	8900.6	8600.6	8630.1	8408.8	8059.7	7184.4	6377.9
37.5°	10282.4	10316.8	10110.3	9898.8	9520.2	9008.8	9038.3	8738.3	8379.3	7474.5	6535.3
40°	11064.3	10995.4	10646.3	10395.5	9977.5	9436.6	9461.2	9107.1	8748.1	7749.9	6717.2
42.5°	11718.3	11595.4	11172.5	10852.8	10351.2	9889.0	9913.6	9505.4	9121.9	8054.8	6918.9
45°	12657.5	12318.2	11708.5	11551.1	10734.8	10331.6	10356.2	9928.3	9515.3	8379.3	7135.2
47.5°	13203.4	12662.4	12274.0	12190.4	11157.7	10788.9	10818.4	10375.8	9938.2	8748.1	7361.4
50°	13168.9	12819.8	12706.7	12500.2	11531.4	11216.7	11246.2	10838.1	10366.0	9112.0	7577.8
52.5°	12942.7	13006.7	12947.7	12603.4	11905.2	11629.8	11664.2	11295.4	10803.6	9451.3	7779.4
55°	13291.9	13336.1	13223.0	12770.6	12318.2	12042.8	12082.2	11777.3	11236.4	9751.3	7951.5
57.5°	13709.9	13552.5	13439.4	13065.7	12746.0	12490.3	12534.6	12269.0	11610.1	9992.3	8084.3
60°	13690.2	13360.7	13473.8	13085.3	13036.2	12903.4	12942.7	12672.3	11895.3	10169.3	8138.4
62.5°	12682.1	12505.1	13075.5	12942.7	13272.2	13272.2	13321.4	12918.2	12067.4	10243.1	8108.9
65°	10931.5	10941.3	11944.5	12495.2	13552.5	13778.7	13818.0	13070.6	11969.1	10026.7	7833.5
67.5°	8708.8	8772.7	10213.6	11359.3	13272.2	14122.9	14127.8	13208.3	11546.2	9416.9	7194.2
70°	6373.0	6422.2	8123.6	9515.3	11949.4	13360.7	13282.0	12819.8	10626.6	8354.8	6196.0
72.5°	4307.7	4351.9	6102.6	7307.3	9805.4	11379.0	11206.9	11329.8	9057.9	6864.8	4981.4
75°	2896.4	2950.5	4342.1	5227.3	7213.9	8640.0	8256.4	8581.0	7007.4	5197.7	3634.0
77.5°	1824.4	1858.8	2758.7	3427.5	4927.3	5881.3	5497.7	5502.6	4037.2	2798.0	1952.2
80°	1160.5	1170.4	1671.9	1976.8	2852.1	3535.6	3127.5	2542.3	1819.5	1485.1	1165.4
82.5°	673.7	658.9	998.2	1116.3	1357.2	1342.5	1111.3	1052.3	796.6	742.5	595.0
85°	270.5	250.8	437.7	408.1	413.1	437.7	324.6	324.6	260.6	201.6	147.5
87.5°	54.1	54.1	59.0	54.1	54.1	59.0	44.3	44.3	39.3	39.3	39.3
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°	5389.5	5389.5	5389.5	5389.5	5389.5	5389.5	5389.5	5389.5	5389.5	5389.5	5389.5
2.5°	5350.2	5340.4	5315.8	5251.8	5217.4	5197.7	5168.2	5158.4	5153.5	5158.4	5173.2
5°	5364.9	5330.5	5261.7	5158.4	5089.6	5045.3	4996.1	4976.5	4961.7	4961.7	4976.5
7.5°	5374.8	5320.7	5202.7	5050.2	4951.9	4883.0	4824.0	4799.4	4794.5	4809.3	4814.2
10°	5379.7	5301.0	5133.8	4942.0	4814.2	4725.7	4666.7	4651.9	4666.7	4696.2	4701.1
12.5°	5414.1	5305.9	5094.5	4868.3	4715.8	4627.3	4583.1	4583.1	4622.4	4676.5	4681.4
15°	5473.1	5340.4	5074.8	4809.3	4651.9	4573.2	4558.5	4583.1	4642.1	4725.7	4735.5
17.5°	5517.4	5360.0	5030.6	4730.6	4568.3	4519.1	4543.7	4602.7	4686.3	4799.4	4809.3
20°	5546.9	5360.0	4966.6	4637.2	4484.7	4474.9	4543.7	4637.2	4725.7	4858.4	4873.2
22.5°	5576.4	5350.2	4892.9	4524.1	4391.3	4420.8	4548.6	4666.7	4755.2	4897.8	4922.4
25°	5630.5	5364.9	4819.1	4411.0	4292.9	4376.5	4543.7	4686.3	4779.8	4927.3	4966.6
27.5°	5704.2	5399.4	4765.0	4307.7	4194.6	4307.7	4509.3	4681.4	4779.8	4922.4	4966.6
30°	5782.9	5438.7	4701.1	4194.6	4081.5	4209.3	4435.5	4627.3	4740.4	4873.2	4927.3
32.5°	5866.5	5483.0	4647.0	4071.7	3943.8	4076.6	4327.4	4543.7	4666.7	4789.6	4848.6
35°	5979.6	5561.6	4617.5	3973.3	3820.9	3938.9	4189.7	4435.5	4568.3	4681.4	4750.3
37.5°	6117.3	5660.0	4602.7	3875.0	3688.1	3786.4	4042.1	4302.8	4445.4	4538.8	4602.7
40°	6274.7	5782.9	4597.8	3781.5	3555.3	3629.1	3889.7	4150.3	4288.0	4361.8	4415.9
42.5°	6451.7	5920.6	4588.0	3688.1	3422.5	3481.6	3742.2	3997.9	4115.9	4179.8	4229.0
45°	6638.6	6058.3	4568.3	3575.0	3279.9	3348.8	3589.7	3815.9	3938.9	3993.0	4047.1
47.5°	6825.4	6196.0	4529.0	3447.1	3152.1	3216.0	3427.5	3624.2	3722.5	3771.7	3825.8
50°	7007.4	6318.9	4435.5	3299.6	3019.3	3078.3	3240.6	3373.4	3447.1	3486.5	3540.6
52.5°	7169.6	6402.5	4302.8	3127.5	2886.5	2916.0	3024.2	3137.3	3196.3	3201.3	3250.4
55°	7307.3	6446.8	4111.0	2950.5	2743.9	2748.9	2807.9	2896.4	2921.0	2901.3	2935.7
57.5°	7386.0	6422.2	3899.5	2768.5	2596.4	2576.7	2621.0	2665.3	2670.2	2621.0	2655.4
60°	7405.7	6309.1	3624.2	2586.6	2448.9	2394.8	2409.6	2399.7	2389.9	2370.2	2399.7
62.5°	7307.3	6068.1	3319.3	2409.6	2291.5	2207.9	2203.0	2198.1	2212.9	2217.8	2222.7
65°	6948.4	5615.7	2955.4	2227.6	2124.3	2011.2	2006.3	2065.3	2085.0	2055.5	2065.3
67.5°	6255.0	4922.4	2557.1	2016.2	1912.9	1814.5	1853.9	1888.3	1922.7	1912.9	1922.7
70°	5271.5	4042.1	2193.2	1780.1	1681.8	1627.7	1671.9	1701.4	1706.4	1696.5	1706.4
72.5°	4145.4	3157.0	1853.9	1539.2	1450.6	1426.1	1480.2	1504.7	1549.0	1568.7	1573.6
75°	2994.7	2330.9	1519.5	1278.5	1204.8	1204.8	1254.0	1298.2	1337.5	1313.0	1298.2
77.5°	1671.9	1391.6	1091.7	880.2	895.0	963.8	983.5	1032.7	1072.0	1067.1	1057.3
80°	1013.0	870.4	737.6	570.4	565.5	619.6	747.5	831.0	850.7	806.5	801.5
82.5°	526.2	457.3	393.4	319.6	354.1	413.1	432.7	521.3	575.3	555.7	580.3
85°	132.8	127.9	142.6	147.5	181.9	201.6	221.3	260.6	172.1	83.6	83.6
87.5°	39.3	39.3	49.2	49.2	63.9	78.7	73.8	73.8	39.3	4.9	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)