

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: P841528

Luminaire Tested: **ARCH4-190-730-U-T3**

Issue Date: 5/27/2024

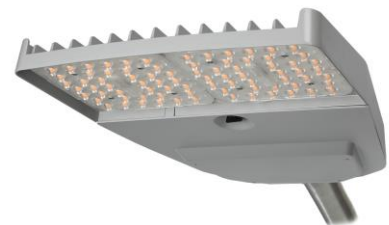
Test Information

Test Method: LM-79-08
Report Number: P841528
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: ARCH4-190-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29859 lumens
Efficiency: N/A
Efficacy: 157.2 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

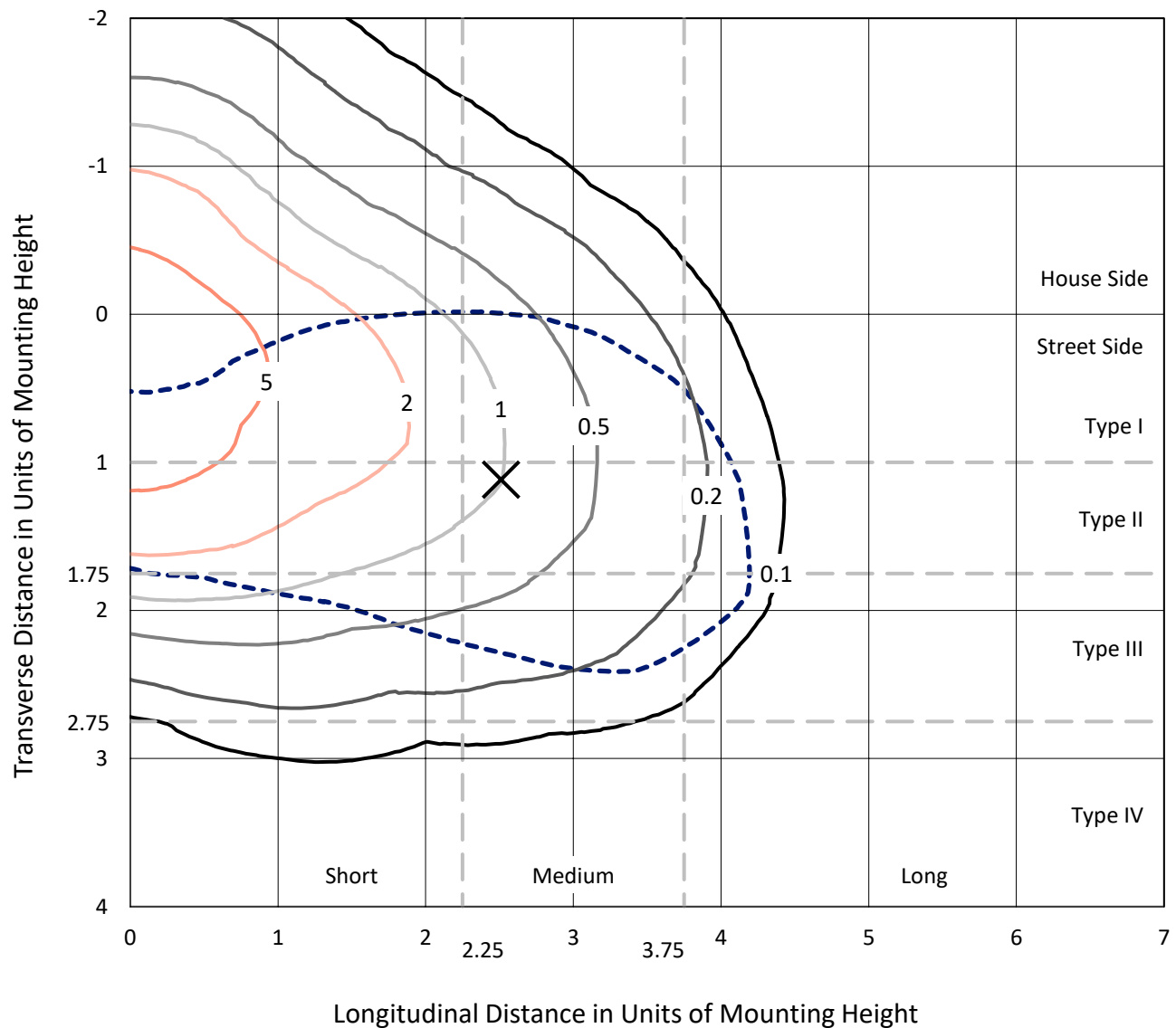
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

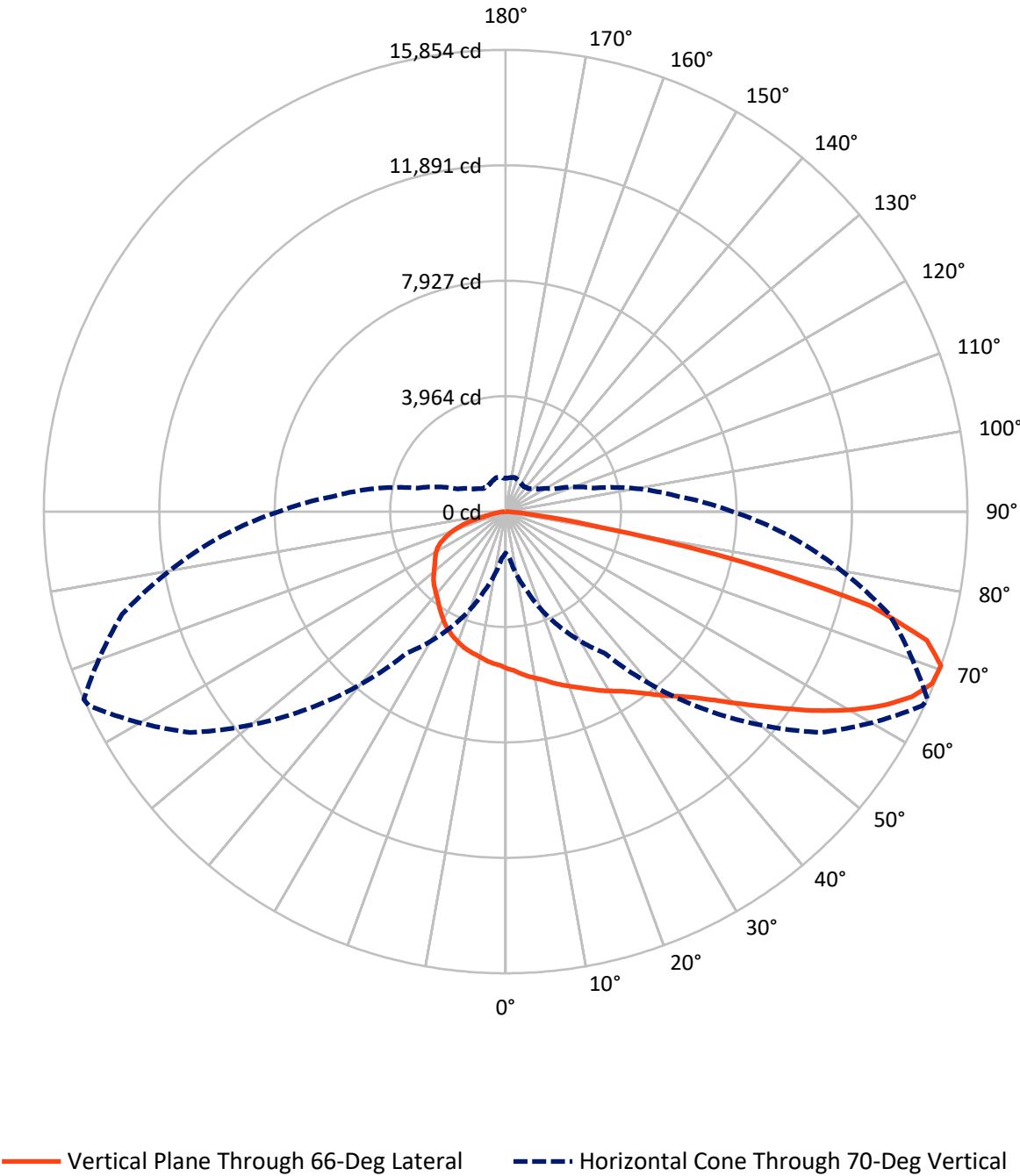
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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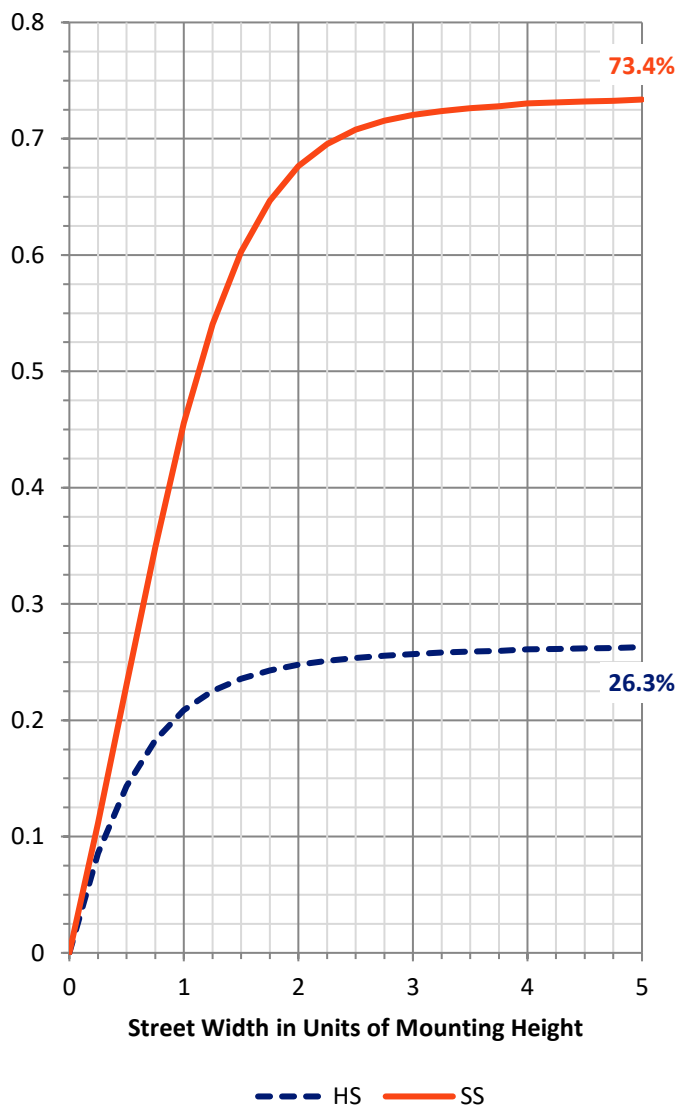
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7912.0	0.0	7912.0
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	21947.0	0.0	21947.0
	% Fixture	73.5	0.0	73.5
Total	Lumens	29859.0	0.0	29859.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.8	1.7
10°-20°	1553.3	5.2
20°-30°	2603.8	8.7
30°-40°	3898.7	13.1
40°-50°	5212.6	17.5
50°-60°	6085.9	20.4
60°-70°	6051.4	20.3
70°-80°	3582.5	12.0
80°-90°	353.1	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°	29859.0	100.0
0°-180°	29859.0	100.0

Coefficient of Utilization



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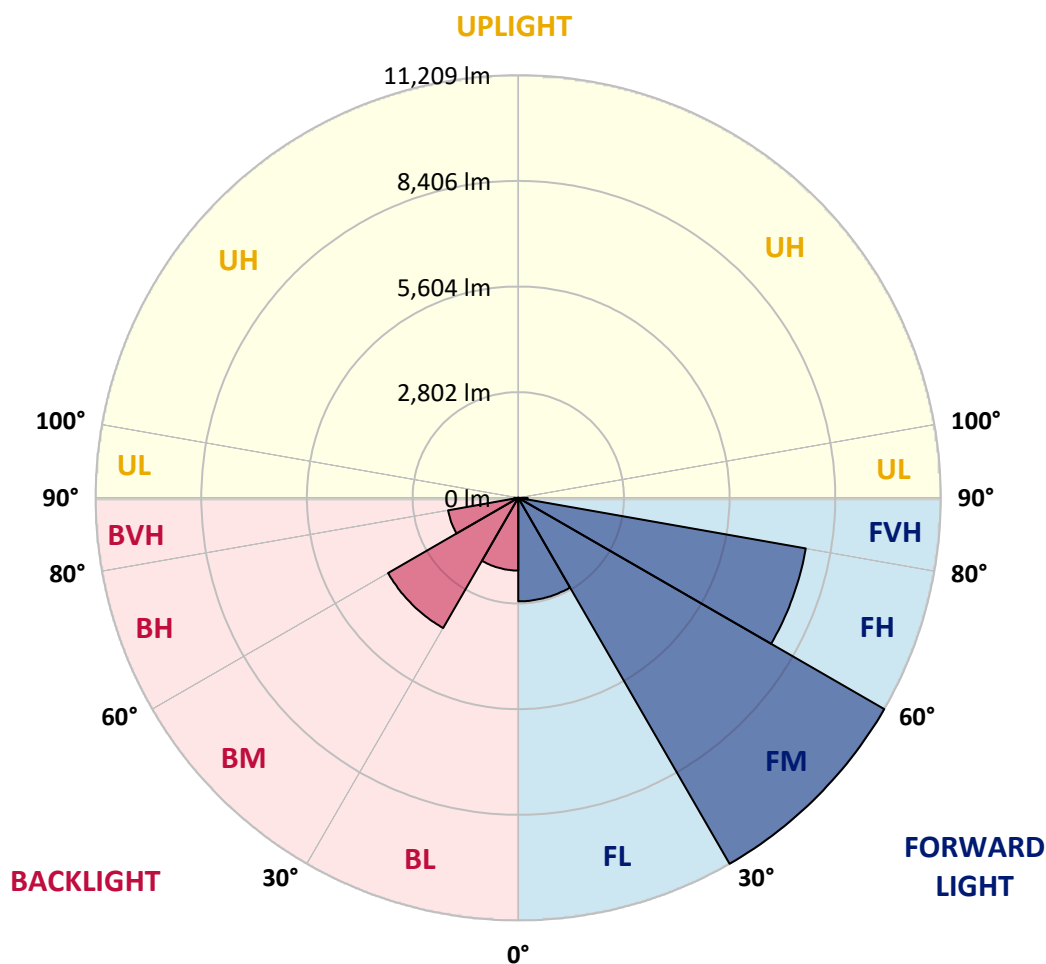
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2746.2	9.2			
FM	(30°-60°)	11208.7	37.5			
FH	(60°-80°)	7744.0	25.9			G4/12000
FVH	(80°-90°)	248.2	0.8			G3/500
BL	(0°-30°)	1928.6	6.5	B3/2500		
BM	(30°-60°)	3988.4	13.4	B3/5000		
BH	(60°-80°)	1890.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	104.9	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°	5388.9	5388.9	5388.9	5388.9	5388.9	5388.9	5388.9	5388.9	5388.9	5388.9	5388.9
2.5°	5587.0	5578.2	5573.8	5556.2	5516.5	5534.2	5494.5	5468.1	5463.7	5402.1	5366.9
5°	5815.9	5811.5	5802.7	5776.3	5714.7	5723.5	5657.4	5609.0	5595.8	5498.9	5424.1
7.5°	6009.6	6000.8	5996.4	5961.2	5895.2	5890.8	5811.5	5741.1	5719.1	5587.0	5472.5
10°	6159.3	6146.1	6154.9	6119.7	6049.3	6036.1	5934.8	5842.3	5820.3	5653.0	5494.5
12.5°	6287.0	6278.2	6291.4	6260.6	6203.4	6190.2	6088.9	5970.0	5943.6	5749.9	5543.0
15°	6427.9	6397.1	6423.5	6410.3	6370.7	6366.3	6273.8	6141.7	6106.5	5873.2	5617.8
17.5°	6502.7	6485.1	6516.0	6520.4	6502.7	6533.6	6445.5	6287.0	6256.2	5987.6	5683.8
20°	6555.6	6529.2	6564.4	6590.8	6604.0	6665.6	6595.2	6441.1	6405.9	6097.7	5745.5
22.5°	6736.1	6678.9	6683.3	6700.9	6709.7	6797.7	6753.7	6604.0	6568.8	6234.2	5820.3
25°	7189.6	7075.1	7000.2	6947.4	6885.8	6960.6	6934.2	6788.9	6758.1	6397.1	5912.8
27.5°	7894.0	7748.7	7599.0	7444.9	7202.8	7172.0	7127.9	6995.8	6960.6	6560.0	6005.2
30°	8695.3	8550.0	8373.9	8127.3	7673.9	7436.1	7334.9	7189.6	7149.9	6705.3	6093.3
32.5°	9492.2	9364.5	9188.4	8889.0	8241.8	7757.5	7541.8	7392.1	7352.5	6863.8	6199.0
35°	10112.9	10033.7	9919.2	9545.0	8805.3	8136.1	7841.2	7660.6	7616.6	7114.7	6392.7
37.5°	10614.8	10557.6	10460.7	10068.9	9214.8	8514.8	8184.6	7977.6	7929.2	7387.7	6599.6
40°	11354.5	11204.8	11125.6	10557.6	9571.4	8858.2	8572.0	8356.3	8303.4	7678.3	6766.9
42.5°	11984.1	11874.0	11777.1	10993.5	9910.4	9153.2	8937.4	8739.3	8668.9	7964.4	6947.4
45°	12089.7	12133.8	12085.3	11209.2	10447.5	9443.7	9307.2	9179.6	9113.5	8351.9	7220.4
47.5°	12094.1	12094.1	11808.0	11332.5	11112.3	9769.5	9703.5	9747.5	9677.1	8845.0	7546.2
50°	11777.1	11834.4	11684.7	11363.3	11288.4	10095.3	10187.8	10425.5	10355.1	9368.9	7898.4
52.5°	11121.1	11310.5	11306.1	11314.9	11033.1	10372.7	10698.5	11240.0	11121.1	9958.8	8272.6
55°	9963.2	10341.9	10680.9	10971.5	10813.0	10540.0	11323.7	12107.3	11984.1	10619.2	8651.2
57.5°	8972.6	9214.8	9637.4	10460.7	10553.2	10685.3	11909.2	13014.3	12904.2	11350.1	9047.5
60°	7841.2	8175.8	8598.4	9769.5	10236.2	10874.6	12552.0	13899.2	13793.6	12089.7	9430.5
62.5°	6102.1	6533.6	7378.9	8708.5	9773.9	10993.5	13058.3	14678.5	14630.1	12789.8	9773.9
65°	4253.0	4636.0	5820.3	7405.3	9038.7	10940.6	13463.4	15374.1	15330.1	13362.1	10016.1
67.5°	2483.1	2927.8	4266.2	5961.2	7739.9	10575.2	13595.4	15783.6	15783.6	13709.9	10082.1
70°	1417.7	1624.6	2813.3	4345.4	5934.8	9567.0	13225.6	15779.2	15854.0	13630.7	9809.2
72.5°	990.6	1083.1	1893.1	2923.4	4024.0	7739.9	12257.0	15017.5	15118.8	12882.2	8875.8
75°	770.5	836.5	1334.0	1994.4	2535.9	5256.8	10139.4	12662.1	12930.6	10980.3	7176.4
77.5°	585.6	634.0	779.3	1246.0	1624.6	3020.2	6692.1	8303.4	8321.0	6722.9	3847.9
80°	427.1	475.5	519.5	761.7	862.9	1413.3	2527.1	3469.3	3372.4	3253.6	2082.5
82.5°	255.4	303.8	317.0	413.9	422.7	603.2	884.9	1118.3	1074.3	1430.9	977.4
85°	110.1	154.1	162.9	189.3	180.5	246.5	352.2	295.0	264.2	303.8	211.3
87.5°	26.4	44.0	44.0	48.4	39.6	61.6	66.0	48.4	44.0	52.8	52.8
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°	5388.9	5388.9	5388.9	5388.9	5388.9	5388.9	5388.9	5388.9	5388.9	5388.9	5388.9
2.5°	5358.1	5344.8	5349.2	5274.4	5252.4	5230.4	5217.2	5208.4	5199.6	5212.8	5226.0
5°	5397.7	5366.9	5331.6	5221.6	5177.5	5129.1	5093.9	5063.1	5049.9	5049.9	5063.1
7.5°	5428.5	5375.7	5300.8	5155.5	5076.3	5010.2	4953.0	4913.4	4891.4	4891.4	4904.6
10°	5432.9	5358.1	5239.2	5063.1	4957.4	4860.5	4794.5	4750.5	4719.7	4719.7	4728.5
12.5°	5459.3	5358.1	5204.0	4992.6	4860.5	4741.7	4662.4	4596.4	4583.2	4583.2	4592.0
15°	5503.3	5380.1	5181.9	4931.0	4772.5	4636.0	4548.0	4477.5	4451.1	4468.7	4473.1
17.5°	5543.0	5393.3	5142.3	4851.7	4662.4	4512.7	4415.9	4354.2	4319.0	4358.6	4358.6
20°	5569.4	5393.3	5085.1	4750.5	4543.6	4376.3	4283.8	4209.0	4182.5	4231.0	4235.4
22.5°	5609.0	5388.9	5023.4	4649.2	4415.9	4239.8	4147.3	4090.1	4076.9	4129.7	4147.3
25°	5653.0	5397.7	4957.4	4534.8	4275.0	4103.3	4032.8	4006.4	4015.2	4081.3	4103.3
27.5°	5701.5	5415.3	4891.4	4407.1	4120.9	3966.8	3927.2	3940.4	3975.6	4059.3	4085.7
30°	5745.5	5419.7	4798.9	4257.4	3944.8	3799.5	3817.1	3874.4	3927.2	4010.8	4041.7
32.5°	5802.7	5424.1	4702.1	4094.5	3755.5	3649.8	3729.1	3821.5	3874.4	3953.6	3988.8
35°	5943.6	5498.9	4627.2	3936.0	3579.4	3522.1	3654.2	3773.1	3803.9	3874.4	3905.2
37.5°	6106.5	5622.2	4587.6	3773.1	3407.7	3394.5	3561.8	3680.6	3689.4	3733.5	3764.3
40°	6207.8	5675.0	4543.6	3636.6	3253.6	3262.4	3434.1	3526.5	3508.9	3539.7	3561.8
42.5°	6309.0	5692.7	4451.1	3522.1	3108.3	3117.1	3249.2	3315.2	3324.0	3390.1	3420.9
45°	6480.7	5741.1	4349.8	3416.5	2976.2	2945.4	3024.6	3112.7	3227.2	3354.8	3390.1
47.5°	6709.7	5842.3	4244.2	3288.8	2848.5	2747.3	2778.1	2932.2	3051.1	3169.9	3191.9
50°	6943.0	5943.6	4147.3	3134.7	2720.9	2535.9	2549.1	2690.0	2786.9	2879.3	2892.6
52.5°	7172.0	6031.7	4063.7	2989.4	2575.6	2285.0	2337.8	2483.1	2549.1	2593.2	2606.4
55°	7400.9	6106.5	3988.8	2866.1	2408.3	2086.9	2135.3	2271.8	2337.8	2359.8	2368.6
57.5°	7638.6	6194.6	3931.6	2760.5	2218.9	1910.8	1941.6	2038.4	2100.1	2126.5	2117.7
60°	7836.8	6269.4	3900.8	2650.4	2029.6	1747.9	1739.1	1827.1	1915.2	1941.6	1932.8
62.5°	7990.8	6317.8	3852.3	2509.5	1862.3	1585.0	1540.9	1655.4	1747.9	1765.5	1778.7
65°	8074.5	6322.2	3733.5	2329.0	1690.6	1408.9	1378.0	1492.5	1549.7	1567.4	1567.4
67.5°	8061.3	6251.8	3500.1	2086.9	1532.1	1250.4	1223.9	1294.4	1378.0	1391.2	1378.0
70°	7788.3	5961.2	3125.9	1831.5	1342.8	1109.5	1061.0	1131.5	1210.7	1162.3	1140.3
72.5°	7013.5	5208.4	2575.6	1549.7	1131.5	933.4	911.4	981.8	986.2	995.0	973.0
75°	5534.2	3878.8	1928.4	1206.3	915.8	783.7	779.3	766.1	783.7	818.9	792.5
77.5°	2905.8	1937.2	1043.4	739.6	664.8	629.6	598.8	594.4	647.2	669.2	642.8
80°	1576.2	1087.5	598.8	444.7	405.0	409.4	449.1	440.3	497.5	510.7	488.7
82.5°	686.8	515.1	295.0	268.6	268.6	264.2	277.4	308.2	369.8	369.8	295.0
85°	149.7	127.7	114.5	132.1	149.7	149.7	149.7	149.7	105.7	57.2	39.6
87.5°	48.4	48.4	48.4	52.8	57.2	57.2	48.4	35.2	22.0	4.4	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)