

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: P841697

Luminaire Tested: **ARCH4-210-750-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841697
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: ARCH4-210-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34144 lumens
Efficiency: N/A
Efficacy: 160.2 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): 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

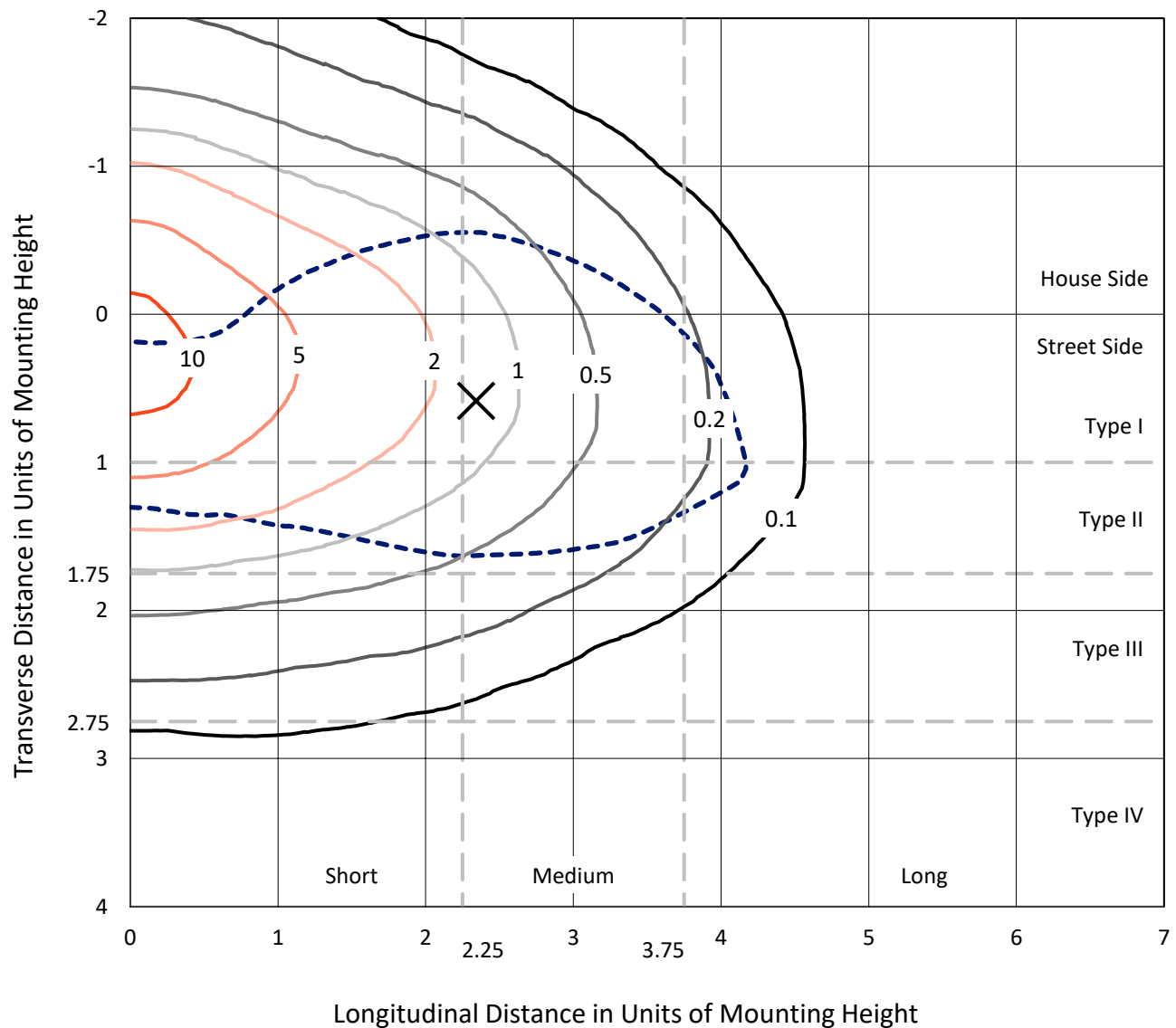


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Iso-Footcandle Lines of Horizontal Illumination

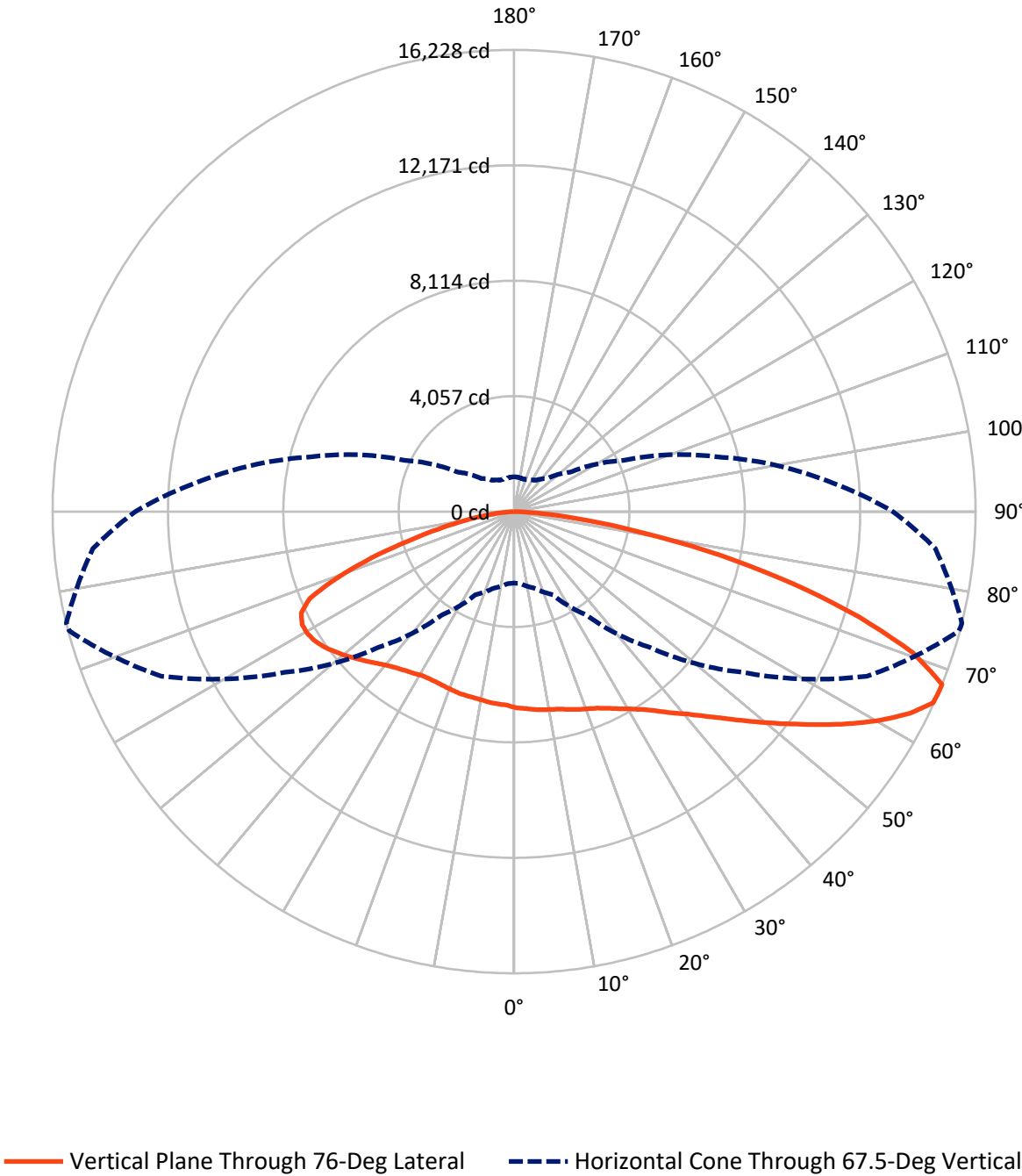
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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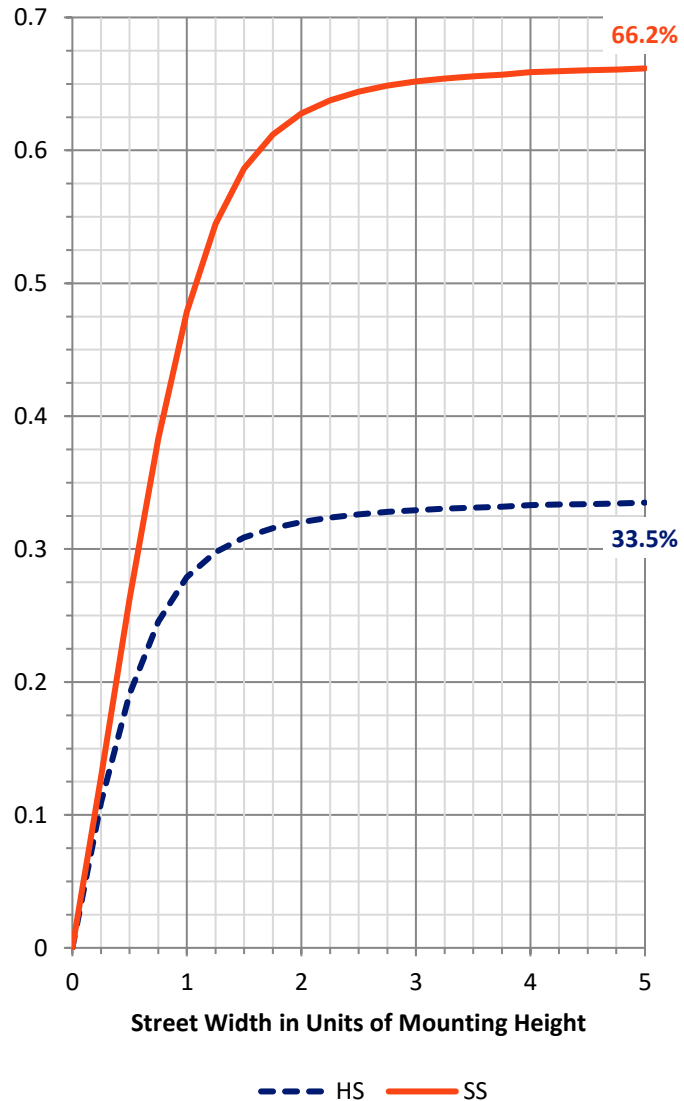
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11537.4	0.0	11537.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	22606.6	0.0	22606.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	34144.0	0.0	34144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.1	1.9
10°-20°	2033.2	6.0
20°-30°	3454.5	10.1
30°-40°	4915.3	14.4
40°-50°	6207.8	18.2
50°-60°	6721.1	19.7
60°-70°	6251.4	18.3
70°-80°	3357.6	9.8
80°-90°	538.0	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°	34144.0	100.0
0°-180°	34144.0	100.0

Coefficient of Utilization



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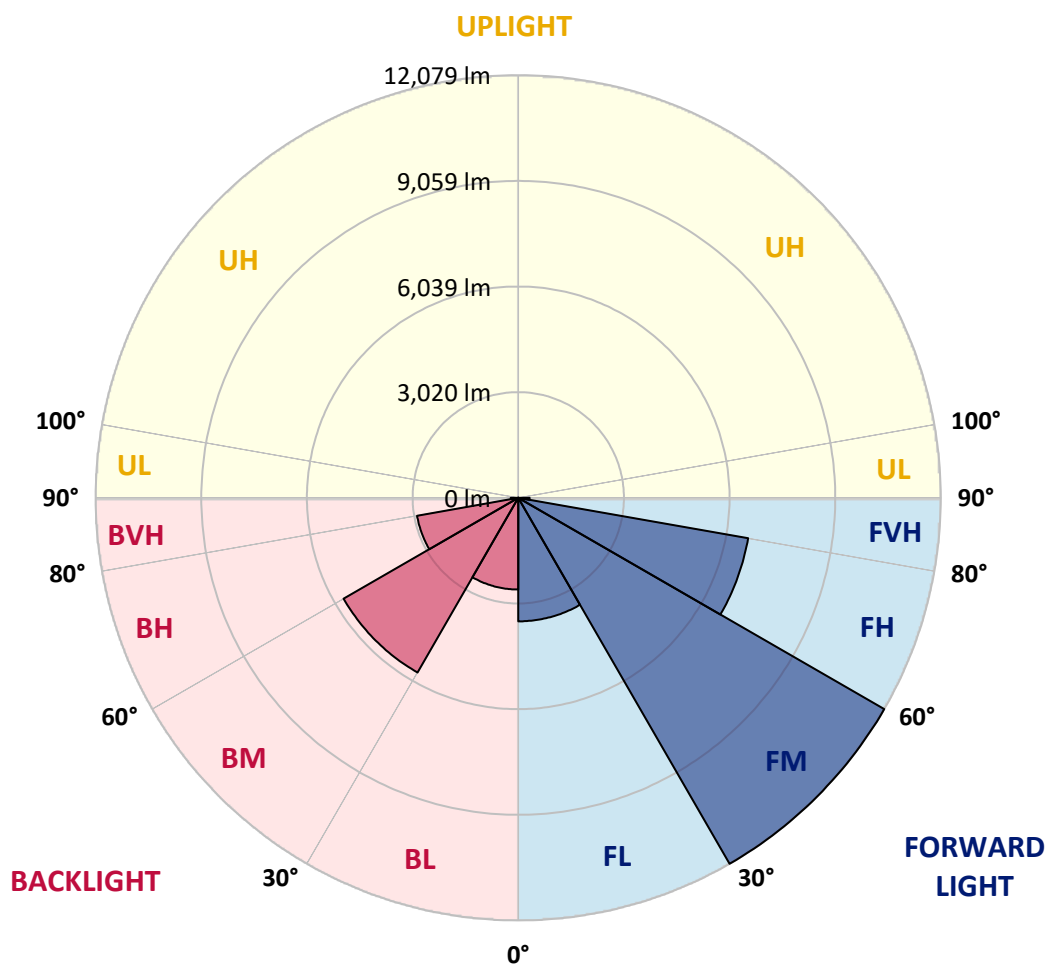
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3530.9	10.3			
FM	(30°-60°)	12078.8	35.4			
FH	(60°-80°)	6671.4	19.5			G3/7500
FVH	(80°-90°)	325.4	1.0			G3/500
BL	(0°-30°)	2621.9	7.7	B4/5000		
BM	(30°-60°)	5765.4	16.9	B4/8500		
BH	(60°-80°)	2937.5	8.6	B4/5000		G4/5000
BVH	(80°-90°)	212.6	0.6			G2/225
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°	6897.0	6897.0	6897.0	6897.0	6897.0	6897.0	6897.0	6897.0	6897.0	6897.0	6897.0
2.5°	7106.2	7093.5	7042.8	7049.2	7049.2	7042.8	6966.7	6935.0	6935.0	6928.7	6859.0
5°	7359.8	7340.8	7283.7	7271.0	7245.7	7214.0	7093.5	7023.8	6992.1	6985.8	6890.7
7.5°	7657.7	7632.4	7562.6	7524.6	7461.2	7378.8	7226.6	7118.9	7042.8	7036.5	6903.4
10°	7955.7	7930.3	7847.9	7778.2	7689.4	7556.3	7359.8	7201.3	7080.8	7068.2	6909.7
12.5°	8310.6	8285.3	8183.9	8095.1	7962.0	7784.5	7524.6	7309.1	7144.2	7125.2	6928.7
15°	8684.7	8646.6	8545.2	8443.8	8279.0	8050.7	7740.1	7454.9	7245.7	7214.0	6985.8
17.5°	8995.3	8944.6	8862.2	8760.7	8576.9	8310.6	7955.7	7600.7	7340.8	7315.4	7042.8
20°	9261.5	9223.5	9134.7	9039.7	8843.1	8551.5	8158.5	7746.5	7429.5	7397.8	7087.2
22.5°	9515.1	9464.4	9413.7	9343.9	9128.4	8805.1	8393.1	7924.0	7543.6	7505.6	7144.2
25°	9806.7	9749.6	9730.6	9692.6	9439.0	9109.4	8678.3	8145.8	7702.1	7657.7	7245.7
27.5°	10168.0	10104.6	10066.6	10066.6	9762.3	9420.0	8982.6	8405.7	7885.9	7847.9	7372.5
30°	10548.4	10472.3	10415.2	10415.2	10072.9	9730.6	9280.5	8665.6	8095.1	8050.7	7537.3
32.5°	10884.3	10808.3	10744.9	10738.5	10383.6	10041.2	9591.2	8950.9	8348.7	8291.6	7740.1
35°	11144.3	11074.5	11017.5	11030.1	10694.2	10358.2	9939.8	9331.3	8665.6	8602.2	8006.4
37.5°	11302.7	11277.4	11245.7	11290.1	10979.4	10662.5	10301.1	9698.9	9027.0	8969.9	8336.0
40°	11385.1	11366.1	11492.9	11550.0	11220.3	10935.1	10662.5	10079.3	9420.0	9356.6	8716.4
42.5°	11505.6	11664.1	11714.8	11702.1	11397.8	11144.3	10992.1	10491.3	9882.8	9825.7	9172.8
45°	11074.5	11036.5	11315.4	11467.6	11410.5	11277.4	11302.7	10985.8	10421.6	10364.5	9698.9
47.5°	10497.7	10446.9	10605.4	10979.4	11201.3	11328.1	11581.7	11499.2	11042.8	10992.1	10313.8
50°	9280.5	9350.3	9939.8	10440.6	10878.0	11315.4	11816.2	12050.8	11727.5	11676.7	10973.1
52.5°	7930.3	8000.0	8614.9	9768.7	10485.0	11220.3	11987.4	12602.3	12469.1	12412.1	11676.7
55°	6947.7	7099.9	7797.2	8633.9	9927.1	10922.4	12088.8	13166.4	13267.9	13217.2	12443.8
57.5°	5971.5	6085.6	6611.8	7353.4	9166.4	10402.6	12082.5	13692.6	14104.6	14053.9	13223.5
60°	4824.1	4969.9	5388.3	6187.0	8152.2	9781.3	11905.0	14104.6	14909.7	14871.7	13977.9
62.5°	4038.0	4082.4	4380.4	5071.3	6846.3	8995.3	11505.6	14326.5	15638.7	15613.4	14656.2
65°	3252.0	3258.3	3530.9	4107.8	5584.8	8019.0	10827.3	14244.1	16190.2	16202.9	15144.3
67.5°	2510.3	2542.0	2789.2	3226.6	4437.4	6751.2	9857.4	13686.3	16196.6	16228.3	14865.3
70°	1736.9	1762.3	2136.3	2561.0	3429.5	5382.0	8545.2	12209.2	14865.3	14890.7	13324.9
72.5°	1223.5	1236.1	1635.5	2047.6	2681.5	4057.1	6446.9	10098.3	12672.0	12691.0	11207.6
75°	912.8	925.5	1153.7	1553.1	2053.9	2808.3	4405.7	7733.8	10123.6	10123.6	8849.5
77.5°	646.6	652.9	748.0	1071.3	1369.3	1895.4	2649.8	5065.0	7429.5	7442.2	6446.9
80°	437.4	443.7	488.1	722.7	855.8	1026.9	1439.0	2656.1	4684.6	4703.7	4095.1
82.5°	228.2	240.9	272.6	367.7	431.1	570.5	741.7	1350.2	2592.7	2643.4	2459.6
85°	88.7	88.7	101.4	120.4	158.5	221.9	342.3	513.5	1172.7	1210.8	1084.0
87.5°	31.7	31.7	38.0	38.0	44.4	50.7	57.1	76.1	133.1	133.1	126.8
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°	6897.0	6897.0	6897.0	6897.0	6897.0	6897.0	6897.0	6897.0	6897.0	6897.0	6897.0
2.5°	6833.6	6833.6	6801.9	6814.6	6808.3	6795.6	6782.9	6801.9	6782.9	6738.5	6732.2
5°	6846.3	6833.6	6782.9	6776.6	6757.6	6732.2	6700.5	6713.2	6681.5	6643.4	6637.1
7.5°	6852.6	6827.3	6757.6	6732.2	6694.2	6643.4	6592.7	6592.7	6548.4	6510.3	6504.0
10°	6840.0	6808.3	6713.2	6662.5	6592.7	6516.7	6446.9	6427.9	6377.2	6332.8	6332.8
12.5°	6846.3	6801.9	6681.5	6599.1	6504.0	6408.9	6320.1	6294.8	6250.4	6206.0	6199.7
15°	6884.3	6820.9	6668.8	6561.0	6421.6	6313.8	6218.7	6199.7	6161.7	6130.0	6130.0
17.5°	6922.4	6840.0	6649.8	6497.6	6326.5	6206.0	6117.3	6117.3	6091.9	6072.9	6072.9
20°	6941.4	6846.3	6611.8	6408.9	6212.4	6085.6	6003.2	6015.9	6009.5	6003.2	6003.2
22.5°	6985.8	6859.0	6580.1	6326.5	6091.9	5958.8	5882.7	5901.8	5895.4	5895.4	5901.8
25°	7055.5	6890.7	6554.7	6250.4	5977.8	5832.0	5749.6	5762.3	5762.3	5762.3	5762.3
27.5°	7150.6	6954.1	6548.4	6180.7	5863.7	5698.9	5597.5	5597.5	5572.1	5578.5	5584.8
30°	7296.4	7074.5	6561.0	6117.3	5743.3	5534.1	5413.6	5394.6	5388.3	5401.0	5407.3
32.5°	7473.9	7239.3	6637.1	6072.9	5616.5	5350.3	5198.1	5191.8	5172.8	5172.8	5172.8
35°	7695.7	7397.8	6706.8	6066.6	5489.7	5153.7	4988.9	4969.9	4925.5	4906.5	4906.5
37.5°	7981.0	7645.0	6789.2	6022.2	5382.0	4963.6	4767.1	4703.7	4652.9	4646.6	4646.6
40°	8329.7	7924.0	6909.7	5971.5	5267.8	4767.1	4507.1	4399.4	4405.7	4431.1	4431.1
42.5°	8741.7	8266.3	7061.8	5946.1	5103.0	4564.2	4202.9	4076.1	4120.5	4145.8	4152.2
45°	9223.5	8672.0	7233.0	5914.4	4950.9	4336.0	3879.6	3721.1	3740.1	3746.4	3752.8
47.5°	9781.3	9122.1	7410.5	5889.1	4779.7	4050.7	3524.6	3315.4	3309.0	3271.0	3283.7
50°	10364.5	9597.5	7594.3	5844.7	4570.5	3714.8	3150.6	2903.3	2852.6	2795.6	2801.9
52.5°	10985.8	10085.6	7765.5	5775.0	4310.6	3372.4	2795.6	2529.3	2427.9	2364.5	2377.2
55°	11670.4	10586.4	7930.3	5667.2	4038.0	3030.1	2478.6	2206.0	2079.2	2028.5	2034.9
57.5°	12298.0	11068.2	8050.7	5534.1	3740.1	2719.5	2199.7	1933.4	1851.0	1844.7	1851.0
60°	12906.5	11473.9	8101.5	5350.3	3435.8	2434.2	1939.8	1736.9	1679.9	1711.6	1717.9
62.5°	13420.0	11733.8	8076.1	5103.0	3125.2	2161.7	1730.6	1584.8	1546.8	1610.1	1616.5
65°	13718.0	11816.2	7898.6	4748.0	2789.2	1895.4	1534.1	1375.6	1356.6	1394.6	1413.6
67.5°	13324.9	11302.7	7416.8	4259.9	2415.2	1648.2	1343.9	1217.1	1185.4	1217.1	1217.1
70°	11809.9	9794.0	6275.8	3486.5	2003.2	1407.3	1166.4	1077.7	1052.3	1077.7	1071.3
72.5°	9838.4	8145.8	4944.5	2719.5	1578.5	1185.4	1014.3	931.9	906.5	881.1	868.5
75°	7632.4	6187.0	3588.0	1996.8	1191.8	950.9	849.4	773.4	710.0	735.3	722.7
77.5°	5591.1	4342.3	2542.0	1381.9	855.8	735.3	665.6	608.6	564.2	614.9	608.6
80°	3600.6	2808.3	1698.9	925.5	589.5	513.5	488.1	456.4	500.8	652.9	665.6
82.5°	2199.7	1781.3	1014.3	602.2	386.7	342.3	317.0	317.0	513.5	564.2	570.5
85°	982.6	944.5	551.5	310.6	215.5	196.5	177.5	228.2	209.2	152.1	158.5
87.5°	158.5	164.8	120.4	107.8	82.4	82.4	63.4	44.4	31.7	19.0	19.0
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)