

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: P841526

Luminaire Tested: **ARCH4-190-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841526
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: ARCH4-190-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29903 lumens
Efficiency: N/A
Efficacy: 157.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - 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

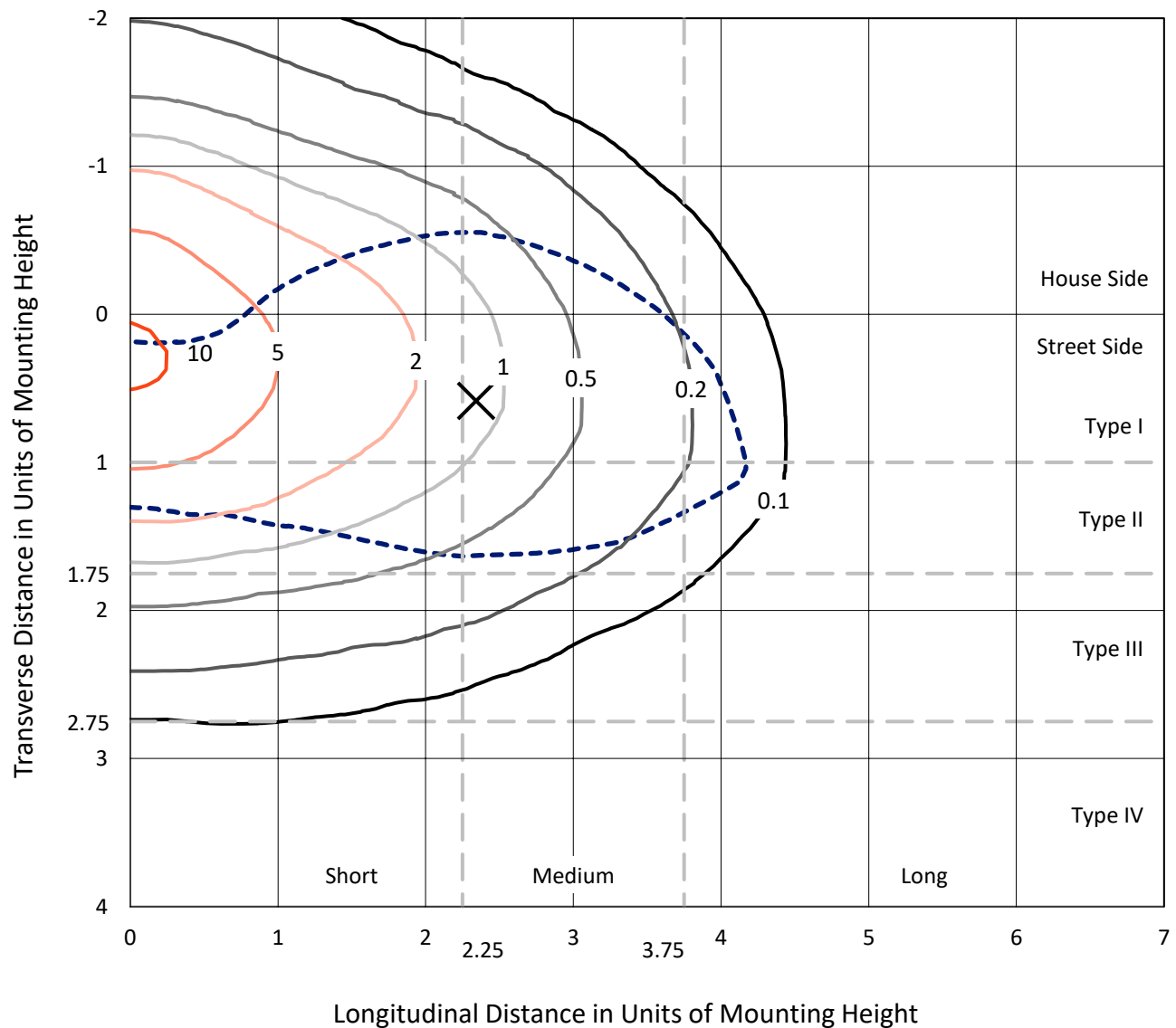


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Iso-Footcandle Lines of Horizontal Illumination

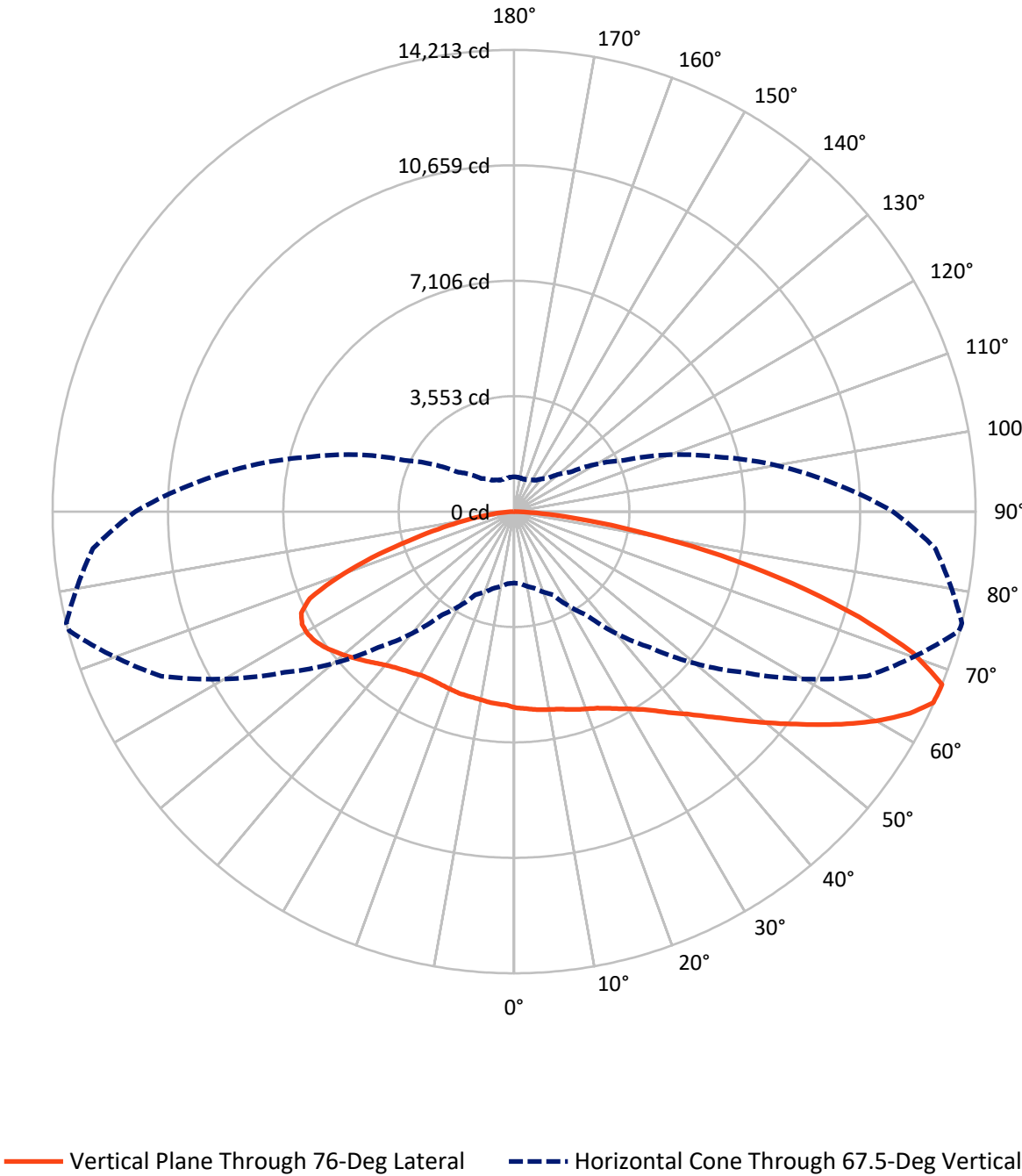
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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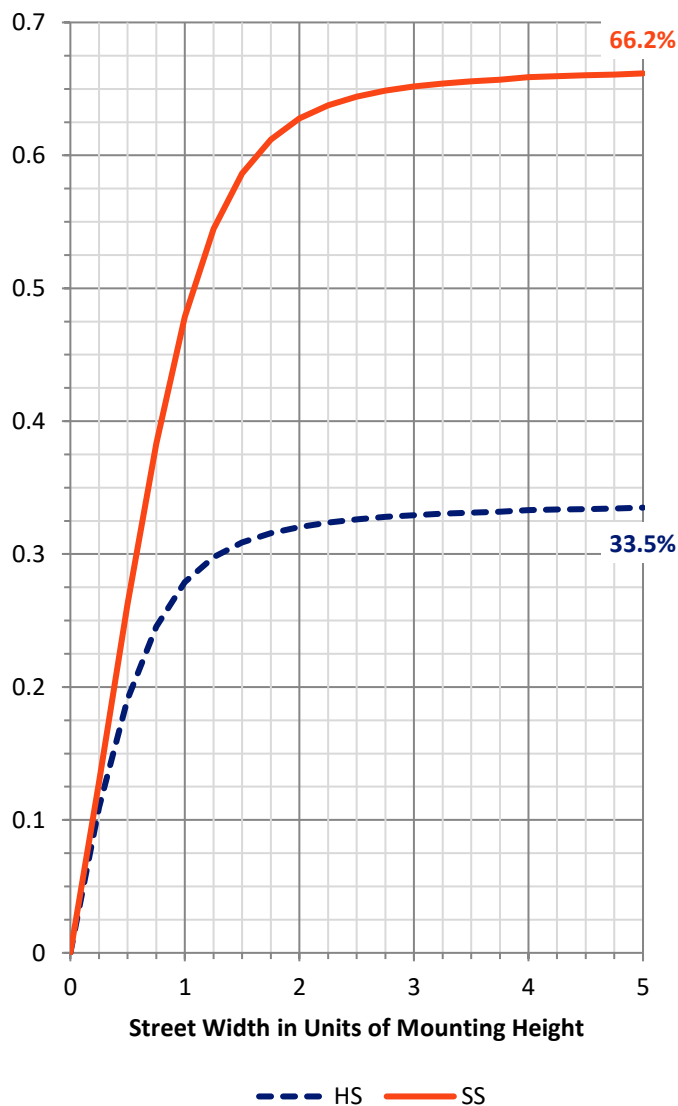
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10104.4	0.0	10104.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	19798.6	0.0	19798.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	29903.0	0.0	29903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.4	1.9
10°-20°	1780.7	6.0
20°-30°	3025.4	10.1
30°-40°	4304.8	14.4
40°-50°	5436.7	18.2
50°-60°	5886.3	19.7
60°-70°	5474.9	18.3
70°-80°	2940.5	9.8
80°-90°	471.2	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°	29903.0	100.0
0°-180°	29903.0	100.0

Coefficient of Utilization



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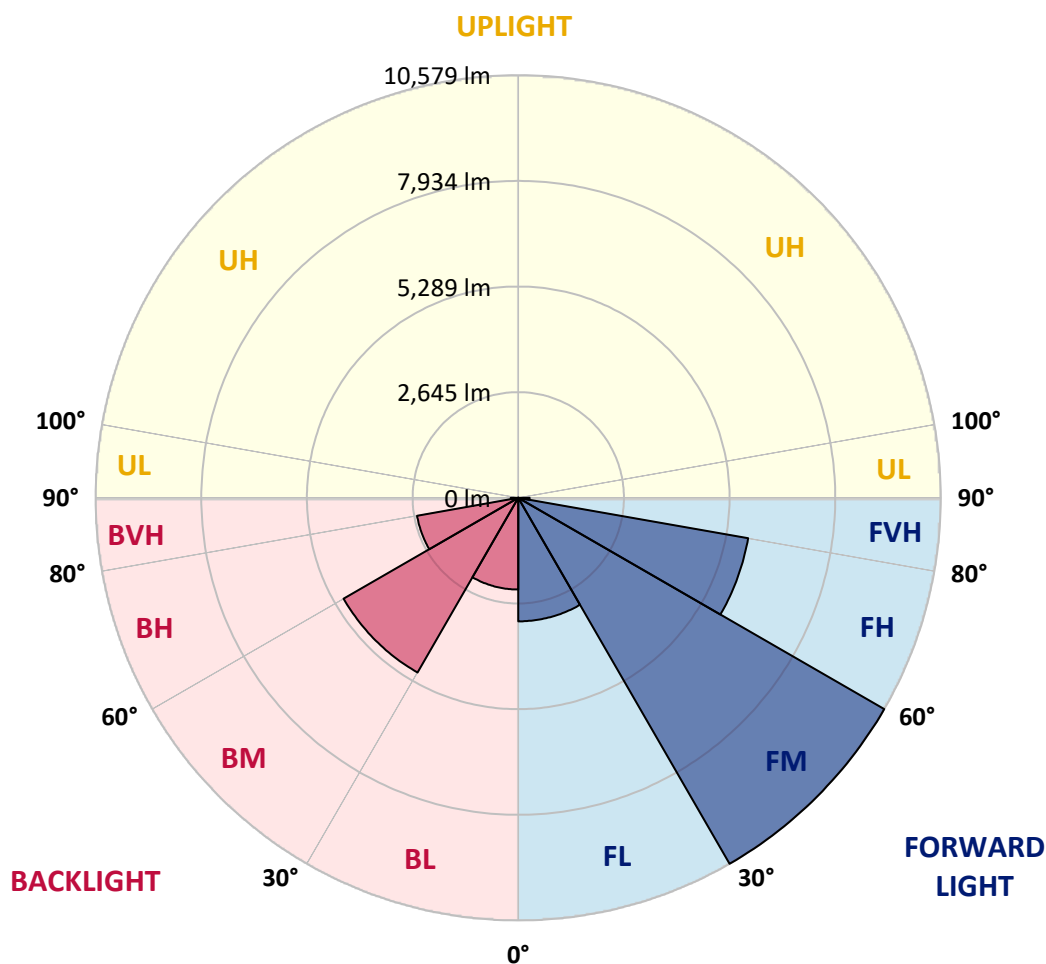
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3092.3	10.3			
FM	(30°-60°)	10578.5	35.4			
FH	(60°-80°)	5842.8	19.5			G3/7500
FVH	(80°-90°)	285.0	1.0			G3/500
BL	(0°-30°)	2296.3	7.7	B3/2500		
BM	(30°-60°)	5049.3	16.9	B4/8500		
BH	(60°-80°)	2572.7	8.6	B4/5000		G4/5000
BVH	(80°-90°)	186.2	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°	6040.3	6040.3	6040.3	6040.3	6040.3	6040.3	6040.3	6040.3	6040.3	6040.3	6040.3
2.5°	6223.5	6212.4	6168.0	6173.6	6173.6	6168.0	6101.4	6073.7	6073.7	6068.1	6007.0
5°	6445.6	6429.0	6379.0	6367.9	6345.7	6317.9	6212.4	6151.4	6123.6	6118.1	6034.8
7.5°	6706.6	6684.3	6623.3	6590.0	6534.4	6462.3	6329.0	6234.7	6168.0	6162.5	6045.9
10°	6967.5	6945.3	6873.1	6812.0	6734.3	6617.7	6445.6	6306.8	6201.3	6190.2	6051.4
12.5°	7278.4	7256.2	7167.4	7089.6	6973.0	6817.6	6590.0	6401.2	6256.9	6240.2	6068.1
15°	7605.9	7572.6	7483.8	7395.0	7250.6	7050.8	6778.7	6528.9	6345.7	6317.9	6118.1
17.5°	7878.0	7833.6	7761.4	7672.6	7511.6	7278.4	6967.5	6656.6	6429.0	6406.8	6168.0
20°	8111.2	8077.8	8000.1	7916.8	7744.7	7489.4	7145.1	6784.3	6506.7	6478.9	6206.9
22.5°	8333.2	8288.8	8244.4	8183.3	7994.6	7711.4	7350.6	6939.7	6606.6	6573.3	6256.9
25°	8588.6	8538.6	8522.0	8488.7	8266.6	7977.9	7600.4	7134.0	6745.4	6706.6	6345.7
27.5°	8905.1	8849.5	8816.2	8816.2	8549.7	8249.9	7866.9	7361.7	6906.4	6873.1	6456.7
30°	9238.2	9171.5	9121.6	9121.6	8821.8	8522.0	8127.8	7589.3	7089.6	7050.8	6601.1
32.5°	9532.4	9465.8	9410.3	9404.7	9093.8	8794.0	8399.8	7839.1	7311.7	7261.7	6778.7
35°	9760.0	9699.0	9649.0	9660.1	9365.9	9071.6	8705.2	8172.2	7589.3	7533.8	7011.9
37.5°	9898.8	9876.6	9848.9	9887.7	9615.7	9338.1	9021.6	8494.2	7905.7	7855.8	7300.6
40°	9971.0	9954.3	10065.4	10115.3	9826.7	9576.8	9338.1	8827.3	8249.9	8194.4	7633.7
42.5°	10076.5	10215.3	10259.7	10248.6	9982.1	9760.0	9626.8	9188.2	8655.2	8605.3	8033.4
45°	9699.0	9665.7	9909.9	10043.2	9993.2	9876.6	9898.8	9621.2	9127.1	9077.2	8494.2
47.5°	9193.8	9149.3	9288.1	9615.7	9810.0	9921.0	10143.1	10070.9	9671.2	9626.8	9032.8
50°	8127.8	8188.9	8705.2	9143.8	9526.9	9909.9	10348.5	10553.9	10270.8	10226.4	9610.1
52.5°	6945.3	7006.4	7544.9	8555.3	9182.6	9826.7	10498.4	11036.9	10920.4	10870.4	10226.4
55°	6084.8	6218.0	6828.7	7561.5	8694.1	9565.7	10587.3	11531.1	11619.9	11575.5	10898.2
57.5°	5229.8	5329.7	5790.5	6440.1	8027.9	9110.5	10581.7	11991.9	12352.7	12308.3	11581.0
60°	4224.9	4352.6	4719.0	5418.5	7139.6	8566.4	10426.2	12352.7	13057.8	13024.5	12241.7
62.5°	3536.5	3575.3	3836.3	4441.4	5995.9	7878.0	10076.5	12547.0	13696.2	13674.0	12835.7
65°	2848.1	2853.6	3092.3	3597.6	4891.1	7023.0	9482.4	12474.9	14179.3	14190.4	13263.2
67.5°	2198.5	2226.3	2442.8	2825.9	3886.2	5912.6	8633.0	11986.3	14184.8	14212.6	13018.9
70°	1521.2	1543.4	1871.0	2242.9	3003.5	4713.5	7483.8	10692.7	13018.9	13041.1	11669.8
72.5°	1071.5	1082.6	1432.4	1793.2	2348.4	3553.1	5646.2	8844.0	11098.0	11114.7	9815.6
75°	799.5	810.6	1010.4	1360.2	1798.8	2459.4	3858.5	6773.2	8866.2	8866.2	7750.3
77.5°	566.3	571.8	655.1	938.3	1199.2	1660.0	2320.6	4435.9	6506.7	6517.8	5646.2
80°	383.1	388.6	427.5	632.9	749.5	899.4	1260.3	2326.2	4102.8	4119.4	3586.5
82.5°	199.9	211.0	238.7	322.0	377.5	499.7	649.6	1182.5	2270.7	2315.1	2154.1
85°	77.7	77.7	88.8	105.5	138.8	194.3	299.8	449.7	1027.1	1060.4	949.4
87.5°	27.8	27.8	33.3	33.3	38.9	44.4	50.0	66.6	116.6	116.6	111.0
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°	6040.3	6040.3	6040.3	6040.3	6040.3	6040.3	6040.3	6040.3	6040.3	6040.3	6040.3
2.5°	5984.8	5984.8	5957.1	5968.2	5962.6	5951.5	5940.4	5957.1	5940.4	5901.5	5896.0
5°	5995.9	5984.8	5940.4	5934.9	5918.2	5896.0	5868.2	5879.3	5851.6	5818.3	5812.7
7.5°	6001.5	5979.3	5918.2	5896.0	5862.7	5818.3	5773.9	5773.9	5735.0	5701.7	5696.1
10°	5990.4	5962.6	5879.3	5834.9	5773.9	5707.2	5646.2	5629.5	5585.1	5546.2	5546.2
12.5°	5995.9	5957.1	5851.6	5779.4	5696.1	5612.9	5535.1	5512.9	5474.1	5435.2	5429.6
15°	6029.2	5973.7	5840.5	5746.1	5624.0	5529.6	5446.3	5429.6	5396.3	5368.6	5368.6
17.5°	6062.5	5990.4	5823.8	5690.6	5540.7	5435.2	5357.5	5357.5	5335.3	5318.6	5318.6
20°	6079.2	5995.9	5790.5	5612.9	5440.7	5329.7	5257.5	5268.6	5263.1	5257.5	5257.5
22.5°	6118.1	6007.0	5762.8	5540.7	5335.3	5218.7	5152.1	5168.7	5163.2	5163.2	5168.7
25°	6179.1	6034.8	5740.5	5474.1	5235.3	5107.6	5035.5	5046.6	5046.6	5046.6	5046.6
27.5°	6262.4	6090.3	5735.0	5413.0	5135.4	4991.1	4902.2	4902.2	4880.0	4885.6	4891.1
30°	6390.1	6195.8	5746.1	5357.5	5029.9	4846.7	4741.2	4724.6	4719.0	4730.1	4735.7
32.5°	6545.6	6340.1	5812.7	5318.6	4918.9	4685.7	4552.5	4546.9	4530.3	4530.3	4530.3
35°	6739.9	6478.9	5873.8	5313.1	4807.8	4513.6	4369.3	4352.6	4313.7	4297.1	4297.1
37.5°	6989.7	6695.5	5946.0	5274.2	4713.5	4347.0	4174.9	4119.4	4075.0	4069.5	4069.5
40°	7295.0	6939.7	6051.4	5229.8	4613.5	4174.9	3947.3	3852.9	3858.5	3880.7	3880.7
42.5°	7655.9	7239.5	6184.7	5207.6	4469.2	3997.3	3680.8	3569.8	3608.7	3630.9	3636.4
45°	8077.8	7594.8	6334.6	5179.8	4335.9	3797.4	3397.7	3258.9	3275.6	3281.1	3286.7
47.5°	8566.4	7989.0	6490.0	5157.6	4186.0	3547.6	3086.8	2903.6	2898.0	2864.7	2875.8
50°	9077.2	8405.4	6651.0	5118.7	4002.8	3253.3	2759.2	2542.7	2498.3	2448.3	2453.9
52.5°	9621.2	8832.9	6800.9	5057.7	3775.2	2953.5	2448.3	2215.2	2126.3	2070.8	2081.9
55°	10220.8	9271.5	6945.3	4963.3	3536.5	2653.8	2170.7	1932.0	1821.0	1776.6	1782.1
57.5°	10770.5	9693.4	7050.8	4846.7	3275.6	2381.7	1926.5	1693.3	1621.1	1615.6	1621.1
60°	11303.4	10048.7	7095.2	4685.7	3009.1	2131.9	1698.8	1521.2	1471.2	1499.0	1504.5
62.5°	11753.1	10276.4	7073.0	4469.2	2737.0	1893.2	1515.6	1387.9	1354.6	1410.2	1415.7
65°	12014.1	10348.5	6917.5	4158.3	2442.8	1660.0	1343.5	1204.7	1188.1	1221.4	1238.0
67.5°	11669.8	9898.8	6495.6	3730.8	2115.2	1443.5	1177.0	1065.9	1038.2	1065.9	1065.9
70°	10343.0	8577.5	5496.3	3053.5	1754.4	1232.5	1021.5	943.8	921.6	943.8	938.3
72.5°	8616.4	7134.0	4330.4	2381.7	1382.4	1038.2	888.3	816.1	793.9	771.7	760.6
75°	6684.3	5418.5	3142.3	1748.8	1043.7	832.8	743.9	677.3	621.8	644.0	632.9
77.5°	4896.7	3803.0	2226.3	1210.3	749.5	644.0	582.9	533.0	494.1	538.5	533.0
80°	3153.4	2459.4	1487.9	810.6	516.3	449.7	427.5	399.7	438.6	571.8	582.9
82.5°	1926.5	1560.1	888.3	527.4	338.7	299.8	277.6	277.6	449.7	494.1	499.7
85°	860.5	827.2	483.0	272.0	188.8	172.1	155.4	199.9	183.2	133.2	138.8
87.5°	138.8	144.3	105.5	94.4	72.2	72.2	55.5	38.9	27.8	16.7	16.7
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)