

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: P842156

Luminaire Tested: **ARCH4-280-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842156
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: ARCH4-280-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35073 lumens
Efficiency: N/A
Efficacy: 125.4 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): 279.7
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



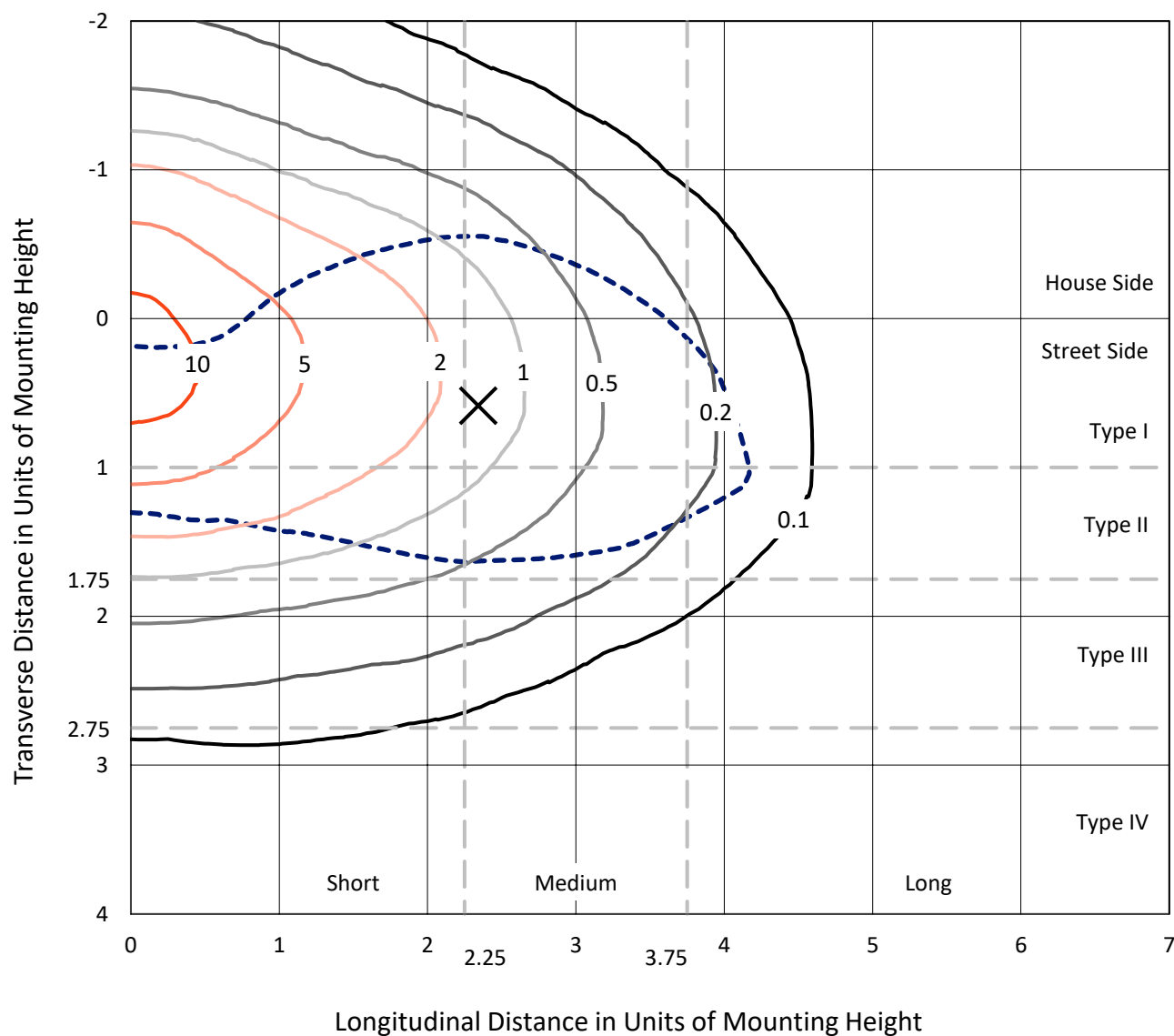
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

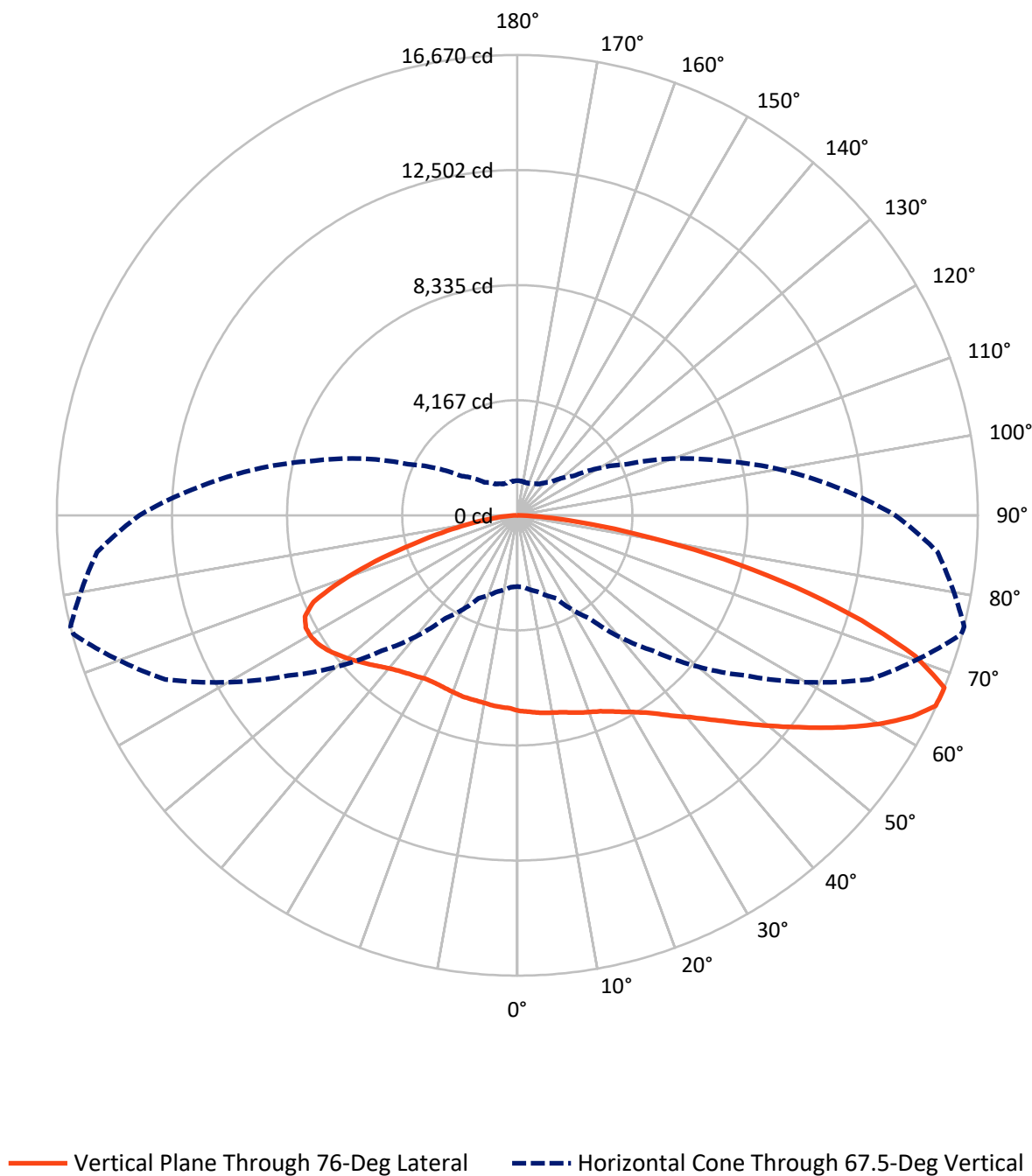
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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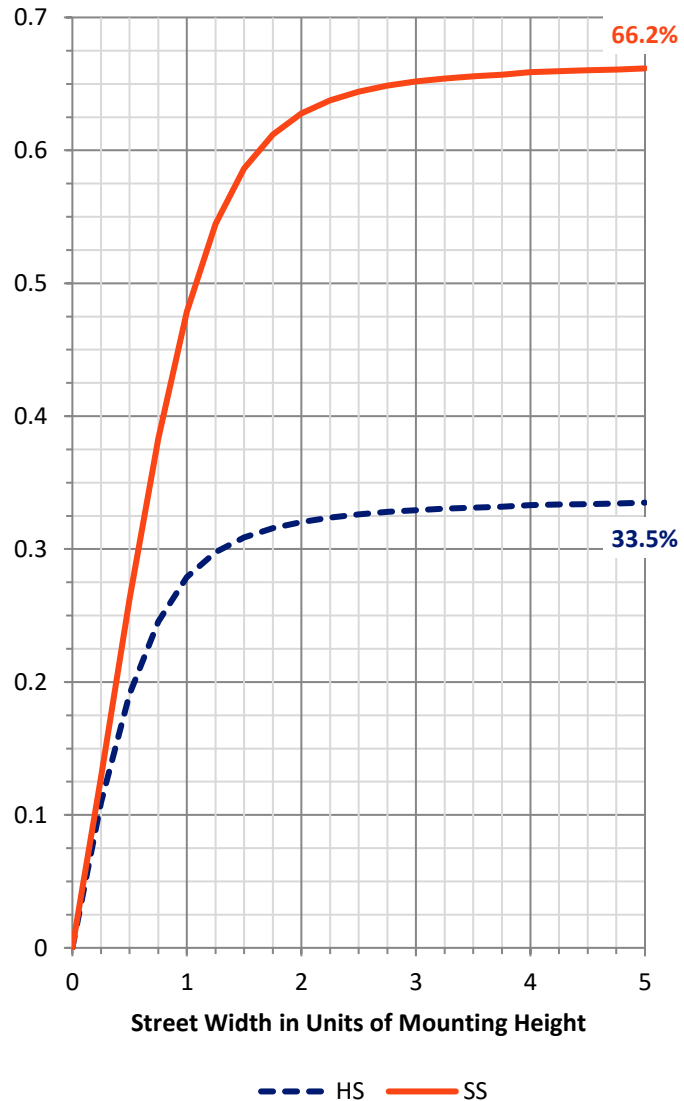
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11851.3	0.0	11851.3
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	23221.7	0.0	23221.7
	% Fixture	66.2	0.0	66.2
Total	Lumens	35073.0	0.0	35073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.1	1.9
10°-20°	2088.5	6.0
20°-30°	3548.5	10.1
30°-40°	5049.0	14.4
40°-50°	6376.7	18.2
50°-60°	6904.0	19.7
60°-70°	6421.5	18.3
70°-80°	3448.9	9.8
80°-90°	552.6	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°	35073.0	100.0
0°-180°	35073.0	100.0

Coefficient of Utilization



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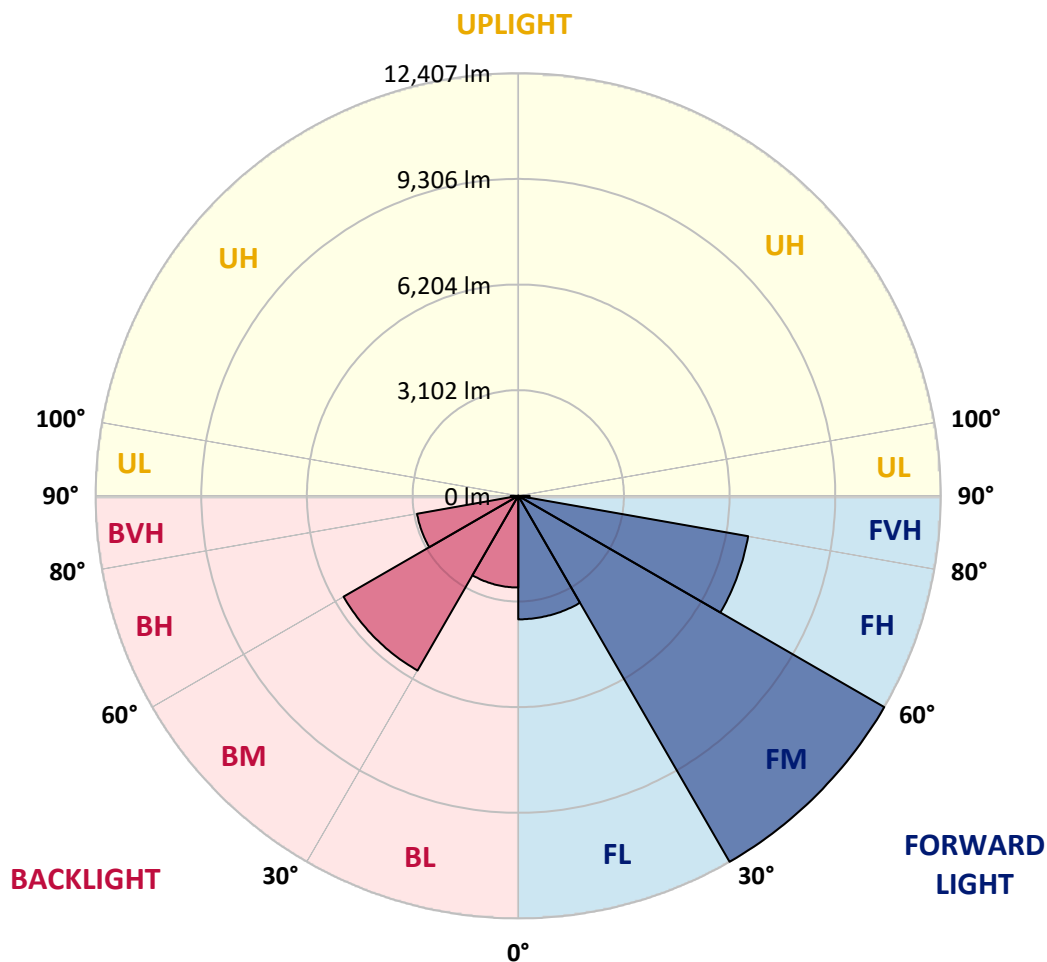
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3626.9	10.3			
FM	(30°-60°)	12407.5	35.4			
FH	(60°-80°)	6852.9	19.5			G3/7500
FVH	(80°-90°)	334.3	1.0			G3/500
BL	(0°-30°)	2693.3	7.7	B4/5000		
BM	(30°-60°)	5922.3	16.9	B4/8500		
BH	(60°-80°)	3017.5	8.6	B4/5000		G4/5000
BVH	(80°-90°)	218.3	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°	7084.7	7084.7	7084.7	7084.7	7084.7	7084.7	7084.7	7084.7	7084.7	7084.7	7084.7
2.5°	7299.6	7286.5	7234.4	7240.9	7240.9	7234.4	7156.3	7123.7	7123.7	7117.2	7045.6
5°	7560.0	7540.5	7481.9	7468.9	7442.8	7410.3	7286.5	7214.9	7182.3	7175.8	7078.2
7.5°	7866.1	7840.0	7768.4	7729.3	7664.2	7579.6	7423.3	7312.6	7234.4	7227.9	7091.2
10°	8172.1	8146.1	8061.4	7989.8	7898.6	7761.9	7560.0	7397.2	7273.5	7260.5	7097.7
12.5°	8536.8	8510.7	8406.5	8315.4	8178.6	7996.3	7729.3	7507.9	7338.6	7319.1	7117.2
15°	8921.0	8881.9	8777.7	8673.5	8504.2	8269.8	7950.7	7657.7	7442.8	7410.3	7175.8
17.5°	9240.0	9187.9	9103.3	8999.1	8810.3	8536.8	8172.1	7807.5	7540.5	7514.4	7234.4
20°	9513.5	9474.4	9383.3	9285.6	9083.7	8784.2	8380.5	7957.2	7631.6	7599.1	7280.0
22.5°	9774.0	9721.9	9669.8	9598.2	9376.8	9044.7	8621.4	8139.6	7748.9	7709.8	7338.6
25°	10073.5	10014.9	9995.4	9956.3	9695.8	9357.2	8914.4	8367.5	7911.6	7866.1	7442.8
27.5°	10444.7	10379.6	10340.5	10340.5	10027.9	9676.3	9227.0	8634.4	8100.5	8061.4	7573.0
30°	10835.4	10757.2	10698.6	10698.6	10347.0	9995.4	9533.0	8901.4	8315.4	8269.8	7742.3
32.5°	11180.5	11102.4	11037.2	11030.7	10666.1	10314.4	9852.1	9194.4	8575.8	8517.2	7950.7
35°	11447.5	11375.8	11317.2	11330.3	10985.1	10640.0	10210.3	9585.1	8901.4	8836.3	8224.2
37.5°	11610.3	11584.2	11551.7	11597.2	11278.2	10952.6	10581.4	9962.8	9272.6	9214.0	8562.8
40°	11694.9	11675.4	11805.6	11864.2	11525.6	11232.6	10952.6	10353.5	9676.3	9611.2	8953.5
42.5°	11818.6	11981.4	12033.5	12020.5	11707.9	11447.5	11291.2	10776.8	10151.7	10093.0	9422.3
45°	11375.8	11336.8	11623.3	11779.6	11721.0	11584.2	11610.3	11284.7	10705.1	10646.5	9962.8
47.5°	10783.3	10731.2	10894.0	11278.2	11506.1	11636.3	11896.8	11812.1	11343.3	11291.2	10594.4
50°	9533.0	9604.7	10210.3	10724.7	11174.0	11623.3	12137.7	12378.6	12046.5	11994.4	11271.7
52.5°	8146.1	8217.7	8849.3	10034.4	10770.3	11525.6	12313.5	12945.1	12808.4	12749.8	11994.4
55°	7136.8	7293.0	8009.3	8868.9	10197.2	11219.6	12417.7	13524.7	13628.9	13576.8	12782.4
57.5°	6134.0	6251.2	6791.6	7553.5	9415.8	10685.6	12411.2	14065.2	14488.4	14436.3	13583.3
60°	4955.4	5105.1	5534.9	6355.4	8374.0	10047.5	12228.9	14488.4	15315.4	15276.3	14358.2
62.5°	4147.9	4193.5	4499.5	5209.3	7032.6	9240.0	11818.6	14716.3	16064.2	16038.2	15054.9
65°	3340.5	3347.0	3627.0	4219.5	5736.8	8237.2	11121.9	14631.7	16630.7	16643.8	15556.3
67.5°	2578.6	2611.2	2865.1	3314.4	4558.2	6934.9	10125.6	14058.6	16637.3	16669.8	15269.8
70°	1784.2	1810.2	2194.4	2630.7	3522.8	5528.4	8777.7	12541.4	15269.8	15295.9	13687.5
72.5°	1256.7	1269.8	1680.0	2103.3	2754.4	4167.5	6622.3	10373.0	13016.8	13036.3	11512.6
75°	937.7	950.7	1185.1	1595.4	2109.8	2884.7	4525.6	7944.2	10399.1	10399.1	9090.3
77.5°	664.2	670.7	768.4	1100.5	1406.5	1947.0	2721.9	5202.8	7631.6	7644.7	6622.3
80°	449.3	455.8	501.4	742.3	879.1	1054.9	1478.1	2728.4	4812.1	4831.6	4206.5
82.5°	234.4	247.4	280.0	377.7	442.8	586.0	761.9	1387.0	2663.3	2715.4	2526.5
85°	91.2	91.2	104.2	123.7	162.8	227.9	351.6	527.4	1204.7	1243.7	1113.5
87.5°	32.6	32.6	39.1	39.1	45.6	52.1	58.6	78.1	136.7	136.7	130.2
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°	7084.7	7084.7	7084.7	7084.7	7084.7	7084.7	7084.7	7084.7	7084.7	7084.7	7084.7
2.5°	7019.6	7019.6	6987.0	7000.0	6993.5	6980.5	6967.5	6987.0	6967.5	6921.9	6915.4
5°	7032.6	7019.6	6967.5	6960.9	6941.4	6915.4	6882.8	6895.8	6863.3	6824.2	6817.7
7.5°	7039.1	7013.0	6941.4	6915.4	6876.3	6824.2	6772.1	6772.1	6726.5	6687.5	6680.9
10°	7026.1	6993.5	6895.8	6843.7	6772.1	6694.0	6622.3	6602.8	6550.7	6505.1	6505.1
12.5°	7032.6	6987.0	6863.3	6778.6	6680.9	6583.3	6492.1	6466.1	6420.5	6374.9	6368.4
15°	7071.6	7006.5	6850.2	6739.6	6596.3	6485.6	6387.9	6368.4	6329.3	6296.8	6296.8
17.5°	7110.7	7026.1	6830.7	6674.4	6498.6	6374.9	6283.7	6283.7	6257.7	6238.2	6238.2
20°	7130.3	7032.6	6791.6	6583.3	6381.4	6251.2	6166.5	6179.6	6173.0	6166.5	6166.5
22.5°	7175.8	7045.6	6759.1	6498.6	6257.7	6120.9	6042.8	6062.3	6055.8	6055.8	6062.3
25°	7247.5	7078.2	6733.0	6420.5	6140.5	5990.7	5906.1	5919.1	5919.1	5919.1	5919.1
27.5°	7345.1	7143.3	6726.5	6348.9	6023.3	5854.0	5749.8	5749.8	5723.7	5730.2	5736.8
30°	7494.9	7267.0	6739.6	6283.7	5899.5	5684.7	5560.9	5541.4	5534.9	5547.9	5554.4
32.5°	7677.2	7436.3	6817.7	6238.2	5769.3	5495.8	5339.5	5333.0	5313.5	5313.5	5313.5
35°	7905.1	7599.1	6889.3	6231.6	5639.1	5294.0	5124.7	5105.1	5059.5	5040.0	5040.0
37.5°	8198.2	7853.0	6974.0	6186.1	5528.4	5098.6	4896.8	4831.6	4779.5	4773.0	4773.0
40°	8556.3	8139.6	7097.7	6134.0	5411.2	4896.8	4629.8	4519.1	4525.6	4551.6	4551.6
42.5°	8979.6	8491.2	7254.0	6107.9	5241.9	4688.4	4317.2	4187.0	4232.6	4258.6	4265.1
45°	9474.4	8907.9	7429.8	6075.4	5085.6	4454.0	3985.1	3822.3	3841.9	3848.4	3854.9
47.5°	10047.5	9370.3	7612.1	6049.3	4909.8	4160.9	3620.5	3405.6	3399.1	3360.0	3373.0
50°	10646.5	9858.6	7800.9	6003.7	4694.9	3815.8	3236.3	2982.3	2930.2	2871.6	2878.1
52.5°	11284.7	10360.0	7976.8	5932.1	4427.9	3464.2	2871.6	2598.1	2494.0	2428.8	2441.9
55°	11987.9	10874.4	8146.1	5821.4	4147.9	3112.6	2546.1	2266.1	2135.8	2083.7	2090.2
57.5°	12632.6	11369.3	8269.8	5684.7	3841.9	2793.5	2259.5	1986.1	1901.4	1894.9	1901.4
60°	13257.7	11786.1	8321.9	5495.8	3529.3	2500.5	1992.6	1784.2	1725.6	1758.1	1764.7
62.5°	13785.2	12053.1	8295.8	5241.9	3210.2	2220.5	1777.7	1627.9	1588.8	1654.0	1660.5
65°	14091.2	12137.7	8113.5	4877.2	2865.1	1947.0	1575.8	1413.0	1393.5	1432.6	1452.1
67.5°	13687.5	11610.3	7618.6	4375.8	2480.9	1693.0	1380.5	1250.2	1217.7	1250.2	1250.2
70°	12131.2	10060.5	6446.5	3581.4	2057.7	1445.6	1198.1	1107.0	1080.9	1107.0	1100.5
72.5°	10106.1	8367.5	5079.1	2793.5	1621.4	1217.7	1041.9	957.2	931.2	905.1	892.1
75°	7840.0	6355.4	3685.6	2051.2	1224.2	976.7	872.6	794.4	729.3	755.4	742.3
77.5°	5743.3	4460.5	2611.2	1419.5	879.1	755.4	683.7	625.1	579.5	631.6	625.1
80°	3698.6	2884.7	1745.1	950.7	605.6	527.4	501.4	468.8	514.4	670.7	683.7
82.5°	2259.5	1829.8	1041.9	618.6	397.2	351.6	325.6	325.6	527.4	579.5	586.0
85°	1009.3	970.2	566.5	319.1	221.4	201.9	182.3	234.4	214.9	156.3	162.8
87.5°	162.8	169.3	123.7	110.7	84.7	84.7	65.1	45.6	32.6	19.5	19.5
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)