

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: P842275

Luminaire Tested: **ARCH4-290-750-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842275
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: ARCH4-290-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43074 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 289.7
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



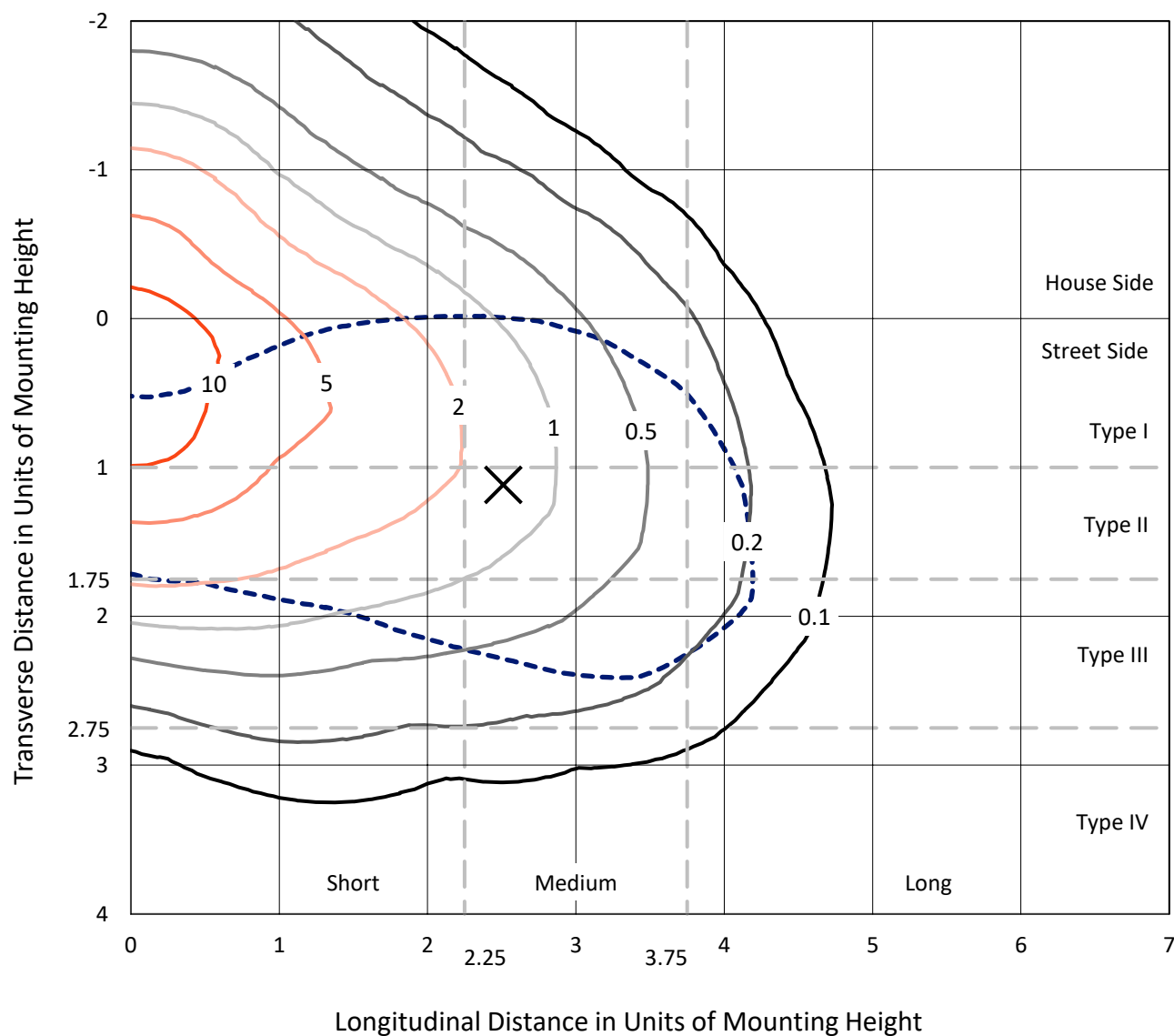
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

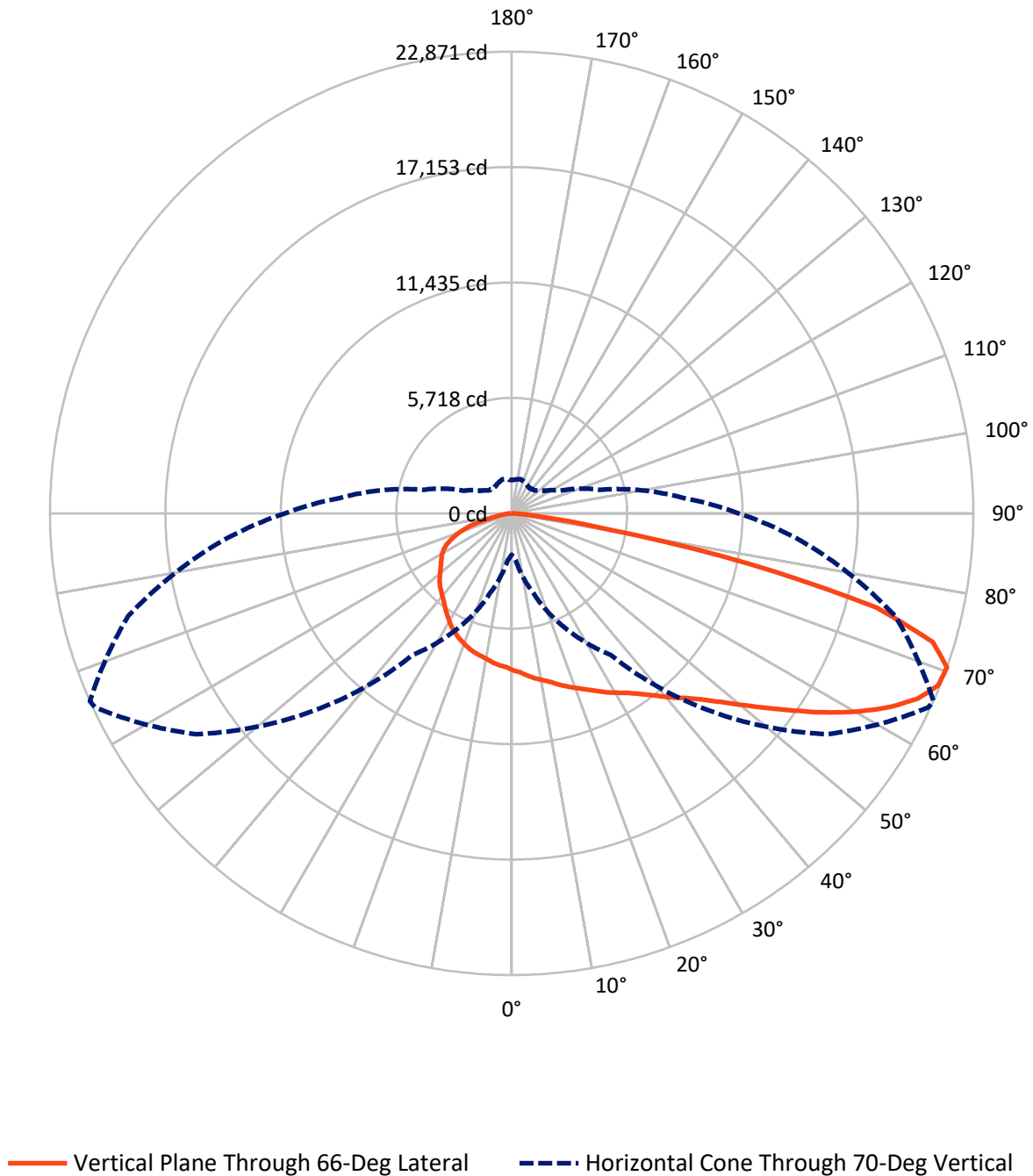
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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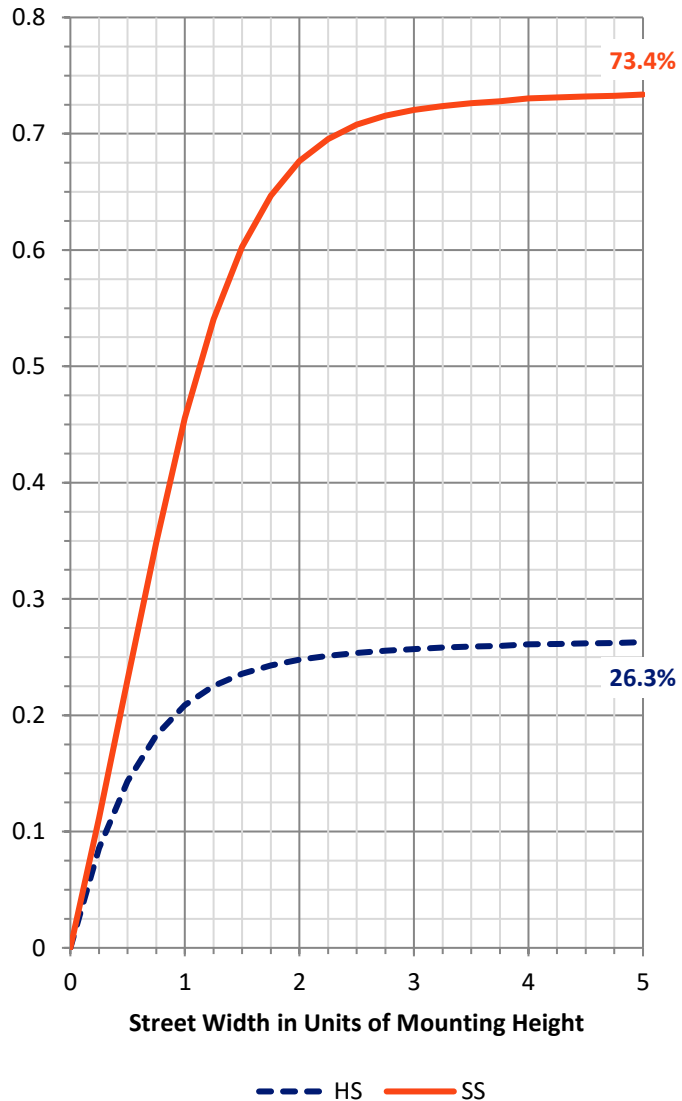
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11413.6	0.0	11413.6
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	31660.4	0.0	31660.4
	% Fixture	73.5	0.0	73.5
Total	Lumens	43074.0	0.0	43074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	747.0	1.7
10°-20°	2240.7	5.2
20°-30°	3756.1	8.7
30°-40°	5624.2	13.1
40°-50°	7519.5	17.5
50°-60°	8779.3	20.4
60°-70°	8729.7	20.3
70°-80°	5168.1	12.0
80°-90°	509.4	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°	43074.0	100.0
0°-180°	43074.0	100.0

Coefficient of Utilization



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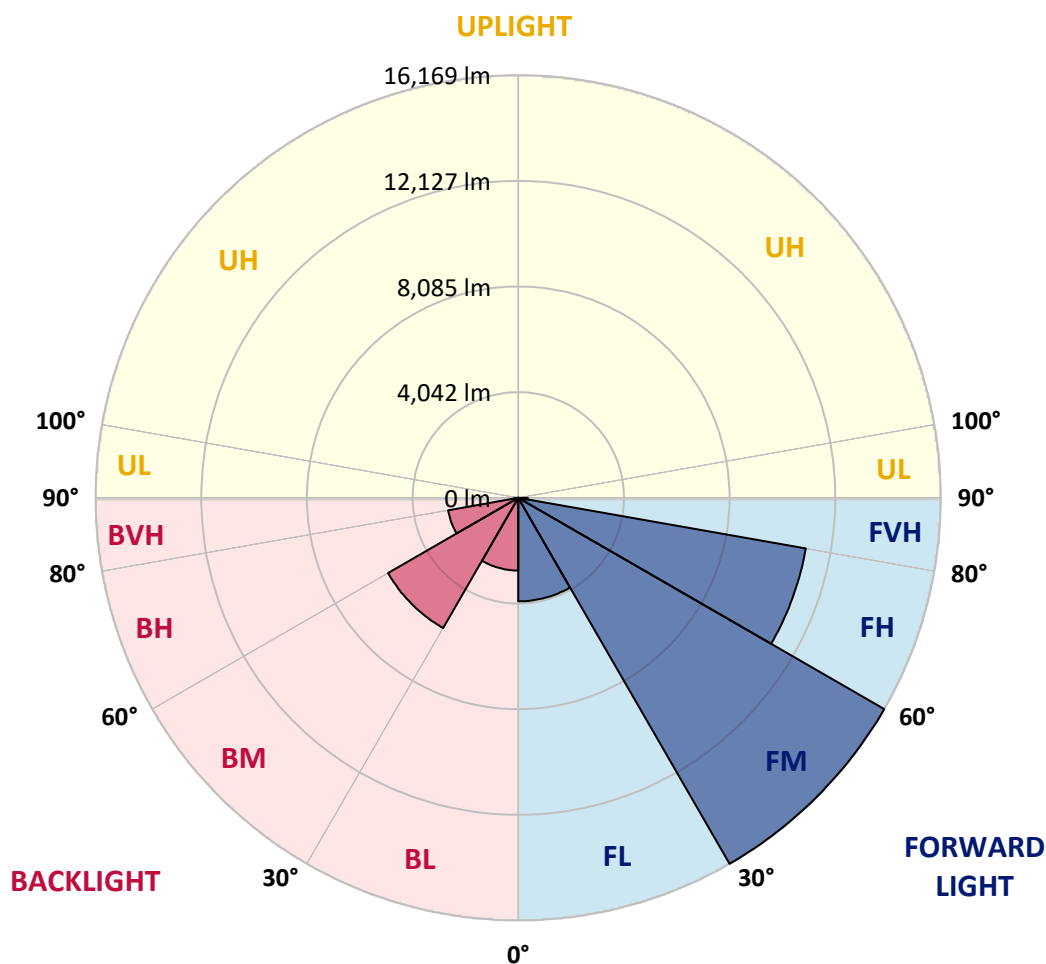
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3961.7	9.2			
FM	(30°-60°)	16169.4	37.5			
FH	(60°-80°)	11171.3	25.9			G4/12000
FVH	(80°-90°)	358.0	0.8			G3/500
BL	(0°-30°)	2782.2	6.5	B4/5000		
BM	(30°-60°)	5753.7	13.4	B4/8500		
BH	(60°-80°)	2726.4	6.3	B4/5000		G4/5000
BVH	(80°-90°)	151.4	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7773.9	7773.9	7773.9	7773.9	7773.9	7773.9	7773.9	7773.9	7773.9	7773.9	7773.9
2.5°	8059.7	8047.0	8040.6	8015.2	7958.1	7983.5	7926.3	7888.2	7881.8	7792.9	7742.1
5°	8389.9	8383.6	8370.9	8332.8	8243.9	8256.6	8161.3	8091.4	8072.4	7932.7	7824.7
7.5°	8669.4	8656.7	8650.3	8599.5	8504.3	8497.9	8383.6	8282.0	8250.2	8059.7	7894.5
10°	8885.3	8866.3	8879.0	8828.2	8726.6	8707.5	8561.4	8428.1	8396.3	8154.9	7926.3
12.5°	9069.5	9056.8	9075.9	9031.4	8948.8	8929.8	8783.7	8612.2	8574.1	8294.7	7996.2
15°	9272.8	9228.3	9266.4	9247.4	9190.2	9183.8	9050.5	8859.9	8809.1	8472.5	8104.1
17.5°	9380.7	9355.3	9399.8	9406.1	9380.7	9425.2	9298.2	9069.5	9025.1	8637.6	8199.4
20°	9456.9	9418.8	9469.6	9507.8	9526.8	9615.7	9514.1	9291.8	9241.0	8796.4	8288.3
22.5°	9717.3	9634.8	9641.1	9666.5	9679.2	9806.3	9742.7	9526.8	9476.0	8993.3	8396.3
25°	10371.5	10206.4	10098.4	10022.2	9933.3	10041.3	10003.1	9793.6	9749.1	9228.3	8529.7
27.5°	11387.7	11178.1	10962.2	10739.9	10390.6	10346.1	10282.6	10092.1	10041.3	9463.3	8663.0
30°	12543.6	12334.0	12080.0	11724.3	11070.2	10727.2	10581.1	10371.5	10314.4	9672.9	8790.1
32.5°	13693.2	13509.0	13255.0	12823.1	11889.5	11190.8	10879.6	10663.7	10606.5	9901.5	8942.5
35°	14588.7	14474.4	14309.3	13769.4	12702.4	11737.0	11311.5	11051.1	10987.6	10263.5	9222.0
37.5°	15312.8	15230.2	15090.5	14525.2	13293.1	12283.2	11806.9	11508.4	11438.5	10657.3	9520.5
40°	16379.8	16163.8	16049.5	15230.2	13807.5	12778.6	12365.8	12054.6	11978.4	11076.5	9761.8
42.5°	17288.0	17129.2	16989.5	15859.0	14296.6	13204.2	12892.9	12607.1	12505.5	11489.3	10022.2
45°	17440.4	17503.9	17434.1	16170.2	15071.4	13623.3	13426.4	13242.3	13147.0	12048.2	10416.0
47.5°	17446.8	17446.8	17033.9	16348.0	16030.4	14093.3	13998.1	14061.6	13960.0	12759.6	10886.0
50°	16989.5	17072.0	16856.1	16392.5	16284.5	14563.3	14696.7	15039.7	14938.0	13515.4	11394.1
52.5°	16043.1	16316.2	16309.9	16322.6	15916.1	14963.4	15433.4	16214.6	16043.1	14366.4	11933.9
55°	14372.8	14919.0	15408.0	15827.2	15598.6	15204.8	16335.3	17465.8	17288.0	15319.1	12480.1
57.5°	12943.8	13293.1	13902.8	15090.5	15223.8	15414.4	17180.0	18774.2	18615.4	16373.4	13051.7
60°	11311.5	11794.2	12403.9	14093.3	14766.6	15687.5	18107.3	20050.8	19898.3	17440.4	13604.3
62.5°	8802.8	9425.2	10644.6	12562.7	14099.7	15859.0	18837.7	21174.9	21105.1	18450.3	14099.7
65°	6135.3	6687.8	8396.3	10682.7	13039.0	15782.7	19422.0	22178.4	22114.9	19275.9	14449.0
67.5°	3582.1	4223.6	6154.3	8599.5	11165.4	15255.6	19612.5	22769.1	22769.1	19777.7	14544.3
70°	2045.1	2343.6	4058.4	6268.6	8561.4	13801.2	19079.0	22762.7	22870.7	19663.3	14150.5
72.5°	1429.0	1562.4	2731.0	4217.2	5805.0	11165.4	17681.8	21664.0	21810.0	18583.6	12804.0
75°	1111.5	1206.7	1924.4	2877.1	3658.3	7583.3	14626.8	18266.1	18653.5	15839.9	10352.5
77.5°	844.7	914.6	1124.2	1797.4	2343.6	4356.9	9653.8	11978.4	12003.8	9698.3	5551.0
80°	616.1	685.9	749.4	1098.8	1244.8	2038.7	3645.6	5004.8	4865.0	4693.5	3004.1
82.5°	368.4	438.2	457.3	597.0	609.7	870.1	1276.6	1613.2	1549.7	2064.1	1410.0
85°	158.8	222.3	235.0	273.1	260.4	355.7	508.1	425.5	381.1	438.2	304.9
87.5°	38.1	63.5	63.5	69.9	57.2	88.9	95.3	69.9	63.5	76.2	76.2
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°	7773.9	7773.9	7773.9	7773.9	7773.9	7773.9	7773.9	7773.9	7773.9	7773.9	7773.9
2.5°	7729.4	7710.4	7716.7	7608.7	7577.0	7545.2	7526.2	7513.5	7500.8	7519.8	7538.9
5°	7786.6	7742.1	7691.3	7532.5	7469.0	7399.2	7348.3	7303.9	7284.8	7284.8	7303.9
7.5°	7831.0	7754.8	7646.9	7437.3	7322.9	7227.7	7145.1	7087.9	7056.2	7056.2	7075.2
10°	7837.4	7729.4	7557.9	7303.9	7151.5	7011.7	6916.5	6853.0	6808.5	6808.5	6821.2
12.5°	7875.5	7729.4	7507.1	7202.3	7011.7	6840.2	6725.9	6630.7	6611.6	6611.6	6624.3
15°	7939.0	7761.2	7475.4	7113.4	6884.7	6687.8	6560.8	6459.2	6421.1	6446.5	6452.8
17.5°	7996.2	7780.2	7418.2	6999.0	6725.9	6510.0	6370.3	6281.3	6230.5	6287.7	6287.7
20°	8034.3	7780.2	7335.6	6853.0	6554.4	6313.1	6179.7	6071.8	6033.6	6103.5	6109.9
22.5°	8091.4	7773.9	7246.7	6706.9	6370.3	6116.2	5982.8	5900.3	5881.2	5957.4	5982.8
25°	8154.9	7786.6	7151.5	6541.7	6167.0	5919.3	5817.7	5779.6	5792.3	5887.6	5919.3
27.5°	8224.8	7812.0	7056.2	6357.6	5944.7	5722.4	5665.3	5684.3	5735.1	5855.8	5893.9
30°	8288.3	7818.3	6922.8	6141.6	5690.7	5481.1	5506.5	5589.1	5665.3	5785.9	5830.4
32.5°	8370.9	7824.7	6783.1	5906.6	5417.6	5265.1	5379.5	5512.8	5589.1	5703.4	5754.2
35°	8574.1	7932.7	6675.1	5678.0	5163.5	5081.0	5271.5	5443.0	5487.4	5589.1	5633.5
37.5°	8809.1	8110.5	6618.0	5443.0	4915.8	4896.8	5138.1	5309.6	5322.3	5385.8	5430.3
40°	8955.2	8186.7	6554.4	5246.1	4693.5	4706.2	4953.9	5087.3	5061.9	5106.4	5138.1
42.5°	9101.3	8212.1	6421.1	5081.0	4484.0	4496.7	4687.2	4782.5	4795.2	4890.4	4934.9
45°	9349.0	8282.0	6275.0	4928.5	4293.4	4249.0	4363.3	4490.3	4655.4	4839.6	4890.4
47.5°	9679.2	8428.1	6122.6	4744.4	4109.2	3963.2	4007.6	4229.9	4401.4	4572.9	4604.6
50°	10015.9	8574.1	5982.8	4522.1	3925.0	3658.3	3677.3	3880.6	4020.3	4153.7	4172.7
52.5°	10346.1	8701.2	5862.2	4312.5	3715.5	3296.3	3372.5	3582.1	3677.3	3740.9	3759.9
55°	10676.4	8809.1	5754.2	4134.6	3474.1	3010.5	3080.3	3277.2	3372.5	3404.2	3416.9
57.5°	11019.3	8936.1	5671.6	3982.2	3201.0	2756.4	2800.9	2940.6	3029.5	3067.6	3054.9
60°	11305.1	9044.1	5627.2	3823.4	2927.9	2521.4	2508.7	2635.8	2762.8	2800.9	2788.2
62.5°	11527.4	9114.0	5557.3	3620.2	2686.6	2286.4	2222.9	2388.1	2521.4	2546.8	2565.9
65°	11648.1	9120.3	5385.8	3359.8	2438.9	2032.4	1987.9	2153.1	2235.6	2261.0	2261.0
67.5°	11629.1	9018.7	5049.2	3010.5	2210.2	1803.7	1765.6	1867.3	1987.9	2007.0	1987.9
70°	11235.3	8599.5	4509.4	2642.1	1937.1	1600.5	1530.6	1632.3	1746.6	1676.7	1645.0
72.5°	10117.5	7513.5	3715.5	2235.6	1632.3	1346.5	1314.7	1416.3	1422.7	1435.4	1403.6
75°	7983.5	5595.4	2781.8	1740.2	1321.1	1130.5	1124.2	1105.1	1130.5	1181.3	1143.2
77.5°	4191.8	2794.5	1505.2	1067.0	959.0	908.2	863.8	857.4	933.6	965.4	927.3
80°	2273.7	1568.7	863.8	641.5	584.3	590.7	647.8	635.1	717.7	736.7	705.0
82.5°	990.8	743.1	425.5	387.4	387.4	381.1	400.1	444.6	533.5	533.5	425.5
85°	215.9	184.2	165.1	190.5	215.9	215.9	215.9	215.9	152.4	82.6	57.2
87.5°	69.9	69.9	69.9	76.2	82.6	82.6	69.9	50.8	31.8	6.4	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)