

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: P841798

Luminaire Tested: **ARCH4-230-722-U-T3**

Issue Date: 5/27/2024

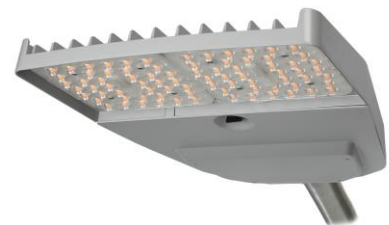
Test Information

Test Method: LM-79-08
Report Number: P841798
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: ARCH4-230-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30391 lumens
Efficiency: N/A
Efficacy: 131.4 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): 231.2
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

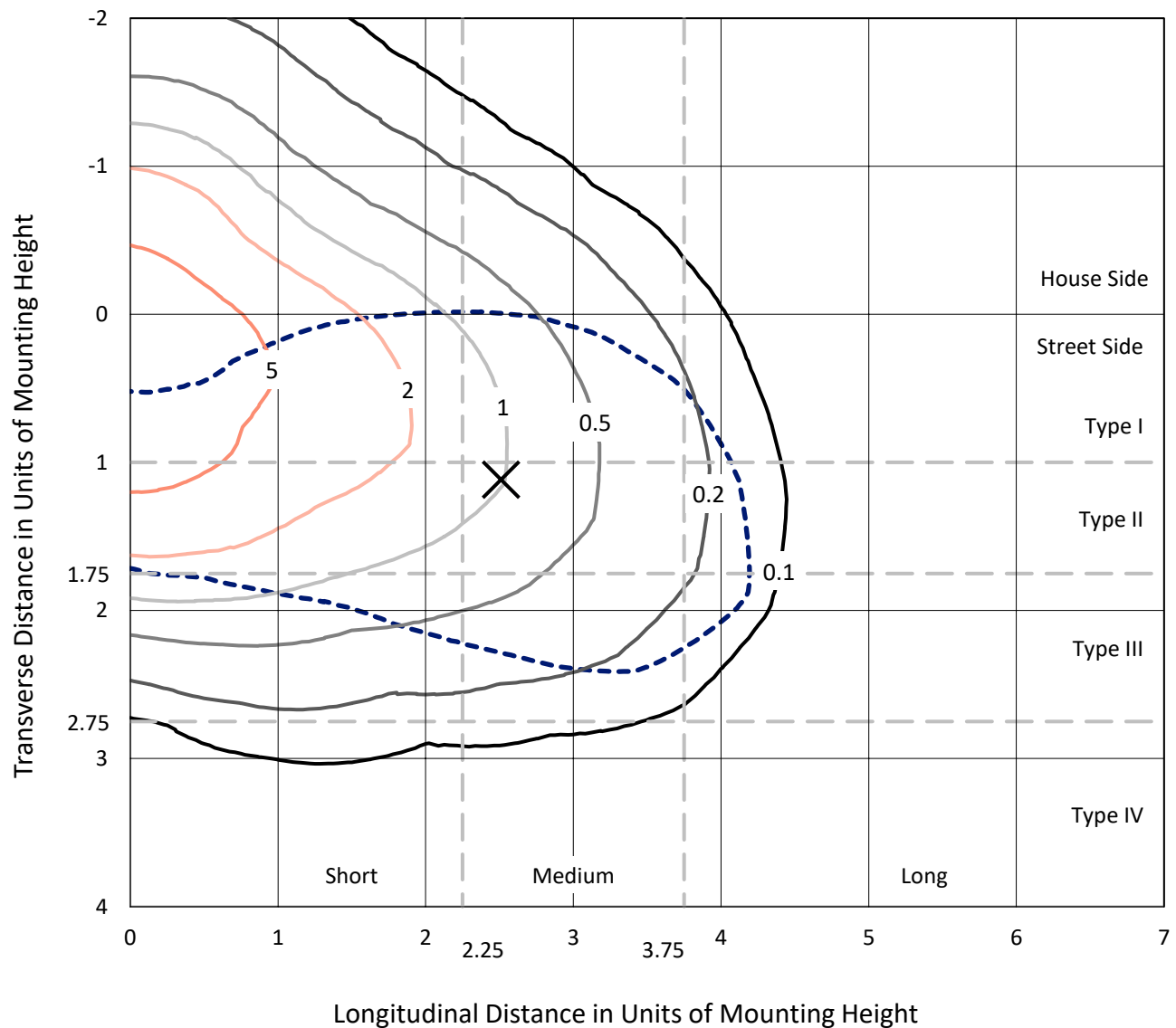


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Iso-Footcandle Lines of Horizontal Illumination

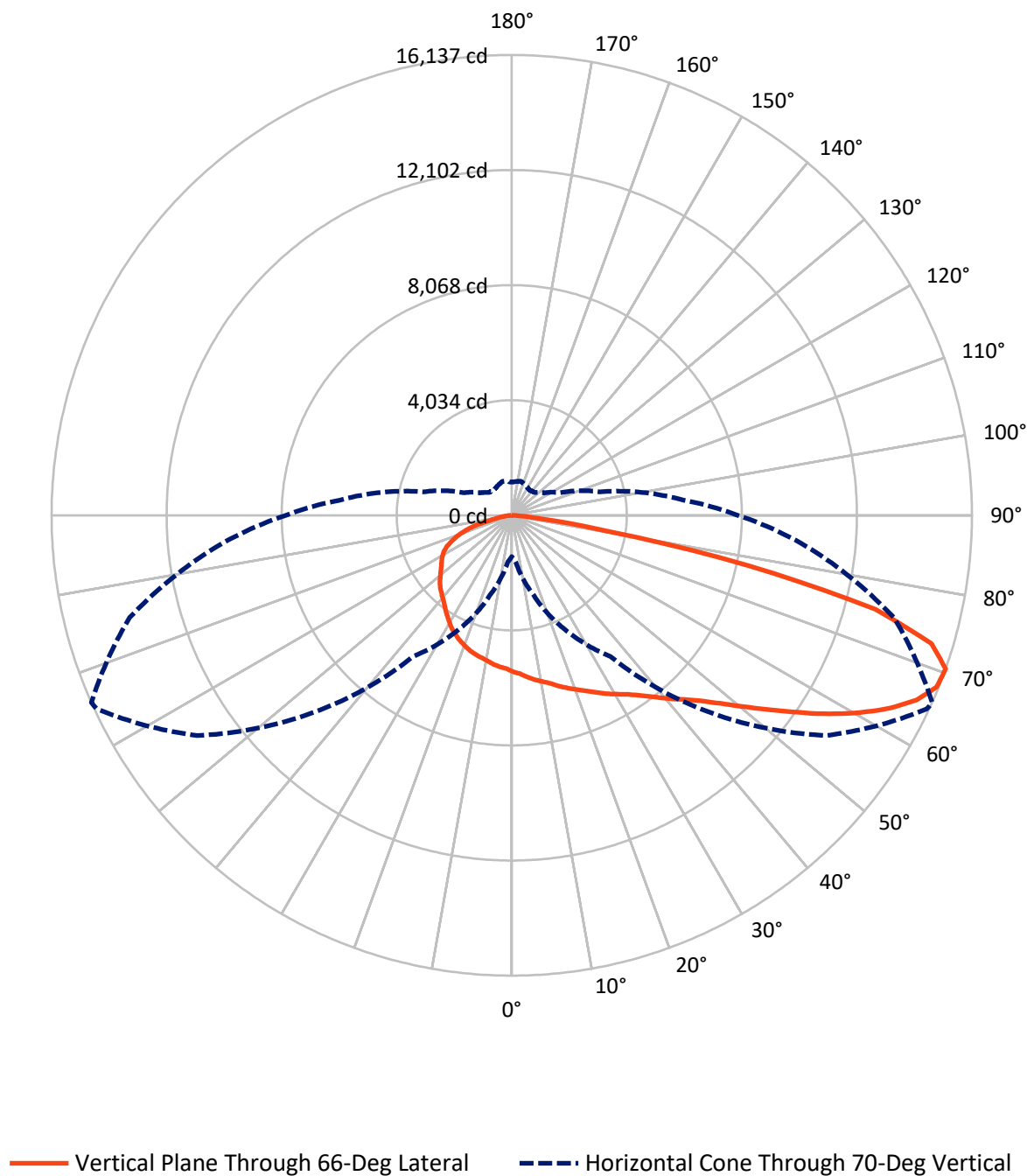
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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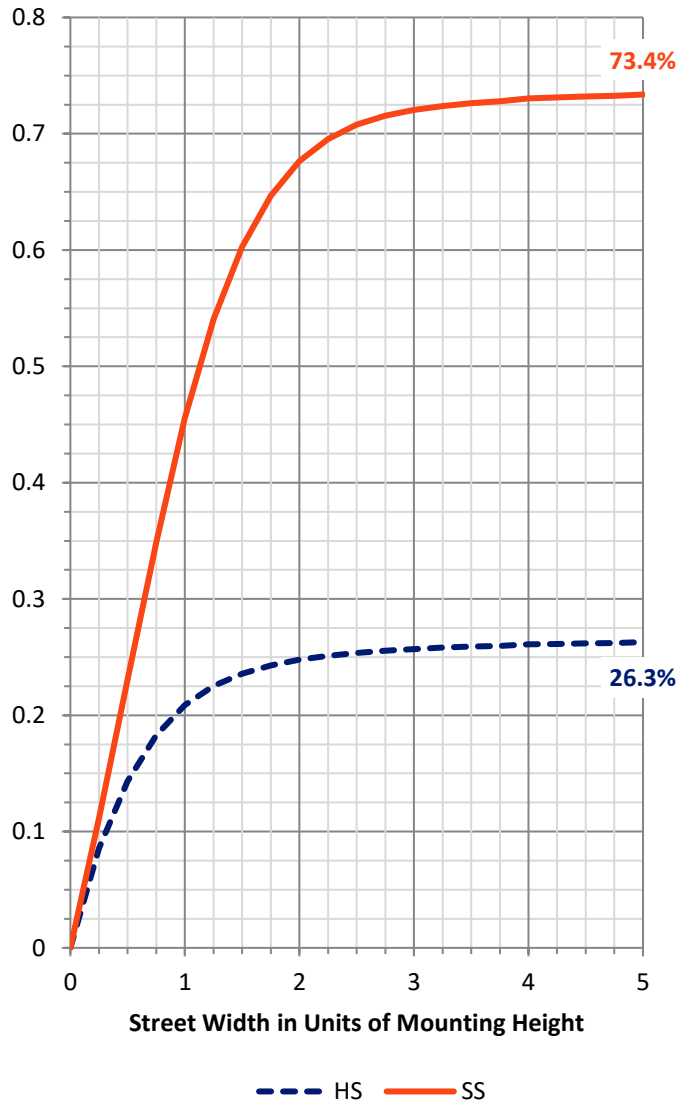
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8052.9	0.0	8052.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	22338.1	0.0	22338.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	30391.0	0.0	30391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.0	1.7
10°-20°	1580.9	5.2
20°-30°	2650.2	8.7
30°-40°	3968.2	13.1
40°-50°	5305.4	17.5
50°-60°	6194.3	20.4
60°-70°	6159.2	20.3
70°-80°	3646.4	12.0
80°-90°	359.4	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°	30391.0	100.0
0°-180°	30391.0	100.0

Coefficient of Utilization



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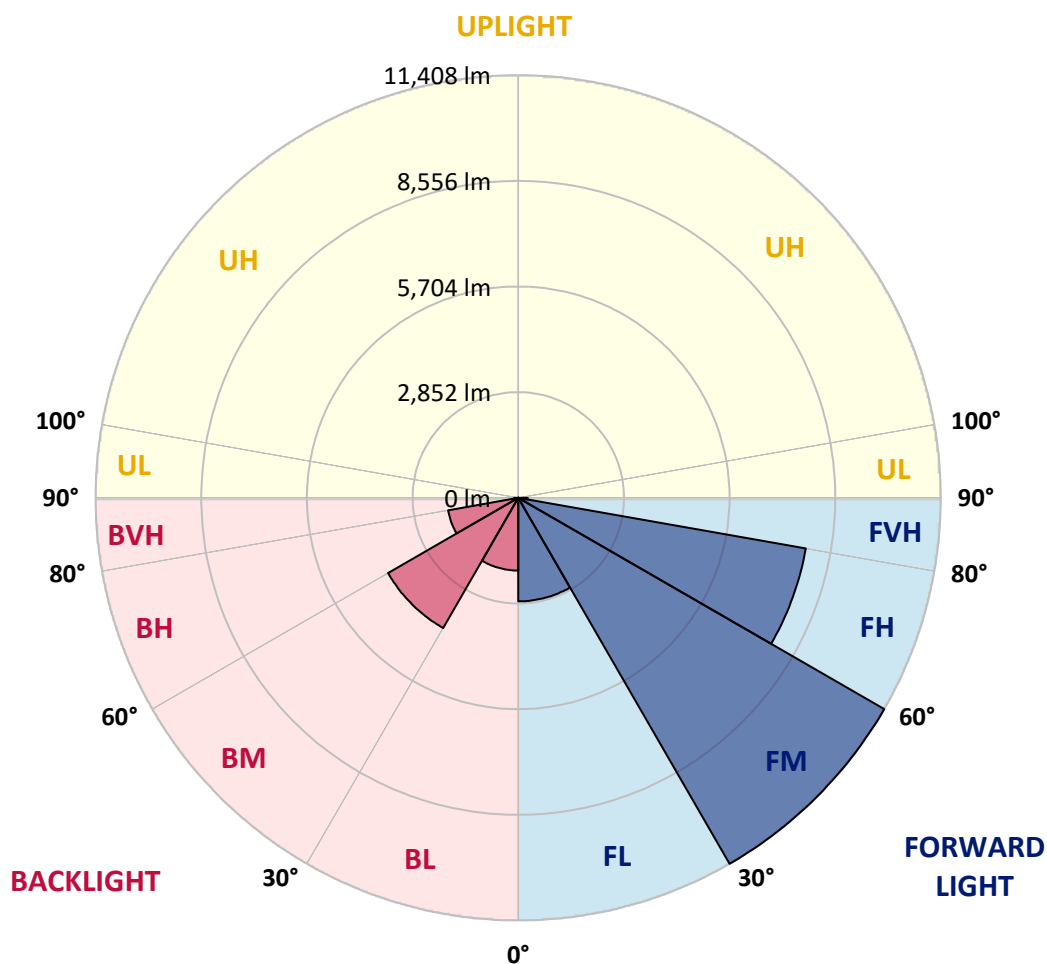
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2795.2	9.2			
FM	(30°-60°)	11408.4	37.5			
FH	(60°-80°)	7882.0	25.9			G4/12000
FVH	(80°-90°)	252.6	0.8			G3/500
BL	(0°-30°)	1963.0	6.5	B3/2500		
BM	(30°-60°)	4059.5	13.4	B3/5000		
BH	(60°-80°)	1923.6	6.3	B3/2500		G3/2500
BVH	(80°-90°)	106.8	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°	5484.9	5484.9	5484.9	5484.9	5484.9	5484.9	5484.9	5484.9	5484.9	5484.9	5484.9
2.5°	5686.5	5677.6	5673.1	5655.2	5614.8	5632.8	5592.4	5565.5	5561.1	5498.3	5462.5
5°	5919.6	5915.1	5906.1	5879.2	5816.5	5825.4	5758.2	5708.9	5695.5	5596.9	5520.7
7.5°	6116.7	6107.8	6103.3	6067.4	6000.2	5995.7	5915.1	5843.4	5821.0	5686.5	5570.0
10°	6269.1	6255.6	6264.6	6228.7	6157.1	6143.6	6040.5	5946.4	5924.0	5753.8	5592.4
12.5°	6399.0	6390.1	6403.5	6372.1	6313.9	6300.4	6197.4	6076.4	6049.5	5852.3	5641.7
15°	6542.4	6511.1	6537.9	6524.5	6484.2	6479.7	6385.6	6251.2	6215.3	5977.8	5717.9
17.5°	6618.6	6600.7	6632.0	6636.5	6618.6	6650.0	6560.4	6399.0	6367.7	6094.3	5785.1
20°	6672.4	6645.5	6681.3	6708.2	6721.7	6784.4	6712.7	6555.9	6520.0	6206.3	5847.9
22.5°	6856.1	6797.8	6802.3	6820.3	6829.2	6918.8	6874.0	6721.7	6685.8	6345.3	5924.0
25°	7317.7	7201.2	7125.0	7071.2	7008.5	7084.6	7057.8	6909.9	6878.5	6511.1	6018.1
27.5°	8034.6	7886.8	7734.4	7577.6	7331.1	7299.7	7254.9	7120.5	7084.6	6676.9	6112.2
30°	8850.2	8702.3	8523.1	8272.1	7810.6	7568.6	7465.5	7317.7	7277.3	6824.7	6201.9
32.5°	9661.3	9531.3	9352.1	9047.4	8388.6	7895.7	7676.1	7523.8	7483.5	6986.1	6309.4
35°	10293.1	10212.5	10095.9	9715.1	8962.2	8281.1	7980.9	7797.1	7752.3	7241.5	6506.6
37.5°	10804.0	10745.7	10647.1	10248.3	9379.0	8666.5	8330.4	8119.8	8070.5	7519.3	6717.2
40°	11556.8	11404.4	11323.8	10745.7	9741.9	9016.0	8724.7	8505.2	8451.4	7815.1	6887.5
42.5°	12197.6	12085.6	11987.0	11189.3	10087.0	9316.2	9096.7	8895.0	8823.3	8106.3	7071.2
45°	12305.1	12349.9	12300.7	11408.9	10633.7	9612.0	9473.1	9343.1	9275.9	8500.7	7349.0
47.5°	12309.6	12309.6	12018.3	11534.4	11310.3	9943.6	9876.4	9921.2	9849.5	9002.6	7680.6
50°	11987.0	12045.2	11892.9	11565.8	11489.6	10275.2	10369.3	10611.3	10539.6	9535.8	8039.1
52.5°	11319.3	11512.0	11507.5	11516.5	11229.7	10557.5	10889.1	11440.3	11319.3	10136.3	8420.0
55°	10140.8	10526.1	10871.2	11166.9	11005.6	10727.8	11525.4	12323.1	12197.6	10808.4	8805.4
57.5°	9132.5	9379.0	9809.2	10647.1	10741.2	10875.7	12121.4	13246.2	13134.1	11552.3	9208.7
60°	7980.9	8321.4	8751.6	9943.6	10418.6	11068.4	12775.7	14146.9	14039.3	12305.1	9598.5
62.5°	6210.8	6650.0	7510.3	8863.6	9948.1	11189.3	13291.0	14940.0	14890.7	13017.6	9948.1
65°	4328.8	4718.6	5924.0	7537.2	9199.7	11135.6	13703.2	15648.0	15603.2	13600.2	10194.5
67.5°	2527.3	2979.9	4342.2	6067.4	7877.8	10763.6	13837.7	16064.8	16064.8	13954.2	10261.8
70°	1442.9	1653.5	2863.4	4422.9	6040.5	9737.5	13461.3	16060.3	16136.5	13873.5	9983.9
72.5°	1008.3	1102.4	1926.9	2975.5	4095.7	7877.8	12475.4	15285.1	15388.1	13111.7	9033.9
75°	784.2	851.4	1357.8	2029.9	2581.1	5350.4	10320.0	12887.7	13161.0	11175.9	7304.2
77.5°	596.0	645.3	793.2	1268.2	1653.5	3074.0	6811.3	8451.4	8469.3	6842.7	3916.5
80°	434.7	484.0	528.8	775.2	878.3	1438.4	2572.2	3531.1	3432.5	3311.5	2119.6
82.5°	259.9	309.2	322.6	421.2	430.2	613.9	900.7	1138.2	1093.4	1456.4	994.8
85°	112.0	156.8	165.8	192.7	183.7	250.9	358.5	300.2	268.9	309.2	215.1
87.5°	26.9	44.8	44.8	49.3	40.3	62.7	67.2	49.3	44.8	53.8	53.8
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°	5484.9	5484.9	5484.9	5484.9	5484.9	5484.9	5484.9	5484.9	5484.9	5484.9	5484.9
2.5°	5453.5	5440.1	5444.6	5368.4	5346.0	5323.6	5310.1	5301.2	5292.2	5305.6	5319.1
5°	5493.8	5462.5	5426.6	5314.6	5269.8	5220.5	5184.6	5153.3	5139.8	5139.8	5153.3
7.5°	5525.2	5471.4	5395.3	5247.4	5166.7	5099.5	5041.3	5000.9	4978.5	4978.5	4992.0
10°	5529.7	5453.5	5332.5	5153.3	5045.7	4947.1	4879.9	4835.1	4803.8	4803.8	4812.7
12.5°	5556.6	5453.5	5296.7	5081.6	4947.1	4826.2	4745.5	4678.3	4664.8	4664.8	4673.8
15°	5601.4	5475.9	5274.3	5018.8	4857.5	4718.6	4629.0	4557.3	4530.4	4548.3	4552.8
17.5°	5641.7	5489.4	5233.9	4938.2	4745.5	4593.1	4494.6	4431.8	4396.0	4436.3	4436.3
20°	5668.6	5489.4	5175.7	4835.1	4624.5	4454.2	4360.1	4283.9	4257.1	4306.4	4310.8
22.5°	5708.9	5484.9	5113.0	4732.1	4494.6	4315.3	4221.2	4163.0	4149.5	4203.3	4221.2
25°	5753.8	5493.8	5045.7	4615.5	4351.2	4176.4	4104.7	4077.8	4086.8	4154.0	4176.4
27.5°	5803.0	5511.8	4978.5	4485.6	4194.3	4037.5	3997.2	4010.6	4046.4	4131.6	4158.5
30°	5847.9	5516.3	4884.4	4333.2	4015.1	3867.2	3885.1	3943.4	3997.2	4082.3	4113.7
32.5°	5906.1	5520.7	4785.8	4167.4	3822.4	3714.8	3795.5	3889.6	3943.4	4024.0	4059.9
35°	6049.5	5596.9	4709.7	4006.1	3643.1	3584.9	3719.3	3840.3	3871.7	3943.4	3974.7
37.5°	6215.3	5722.4	4669.3	3840.3	3468.4	3454.9	3625.2	3746.2	3755.2	3800.0	3831.4
40°	6318.4	5776.2	4624.5	3701.4	3311.5	3320.5	3495.3	3589.4	3571.4	3602.8	3625.2
42.5°	6421.4	5794.1	4530.4	3584.9	3163.7	3172.6	3307.1	3374.3	3383.2	3450.5	3481.8
45°	6596.2	5843.4	4427.3	3477.3	3029.2	2997.9	3078.5	3168.1	3284.7	3414.6	3450.5
47.5°	6829.2	5946.4	4319.8	3347.4	2899.3	2796.2	2827.6	2984.4	3105.4	3226.4	3248.8
50°	7066.7	6049.5	4221.2	3190.6	2769.3	2581.1	2594.6	2738.0	2836.5	2930.6	2944.1
52.5°	7299.7	6139.1	4136.1	3042.7	2621.5	2325.7	2379.5	2527.3	2594.6	2639.4	2652.8
55°	7532.8	6215.3	4059.9	2917.2	2451.2	2124.0	2173.3	2312.3	2379.5	2401.9	2410.8
57.5°	7774.7	6304.9	4001.6	2809.7	2258.5	1944.8	1976.2	2074.8	2137.5	2164.4	2155.4
60°	7976.4	6381.1	3970.3	2697.6	2065.8	1779.0	1770.0	1859.7	1949.3	1976.2	1967.2
62.5°	8133.2	6430.4	3921.0	2554.2	1895.5	1613.2	1568.4	1684.9	1779.0	1796.9	1810.4
65°	8218.4	6434.9	3800.0	2370.5	1720.7	1434.0	1402.6	1519.1	1577.4	1595.3	1595.3
67.5°	8204.9	6363.2	3562.5	2124.0	1559.4	1272.6	1245.7	1317.4	1402.6	1416.0	1402.6
70°	7927.1	6067.4	3181.6	1864.1	1366.7	1129.2	1079.9	1151.6	1232.3	1183.0	1160.6
72.5°	7138.4	5301.2	2621.5	1577.4	1151.6	950.0	927.6	999.3	1003.8	1012.7	990.3
75°	5632.8	3947.9	1962.7	1227.8	932.1	797.6	793.2	779.7	797.6	833.5	806.6
77.5°	2957.5	1971.7	1062.0	752.8	676.6	640.8	609.4	605.0	658.7	681.1	654.2
80°	1604.2	1106.8	609.4	452.6	412.3	416.7	457.1	448.1	506.4	519.8	497.4
82.5°	699.1	524.3	300.2	273.3	273.3	268.9	282.3	313.7	376.4	376.4	300.2
85°	152.4	130.0	116.5	134.4	152.4	152.4	152.4	152.4	107.5	58.3	40.3
87.5°	49.3	49.3	49.3	53.8	58.3	58.3	49.3	35.8	22.4	4.5	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)