

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: P836065

Luminaire Tested: **ARCH3-130-750-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13995 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

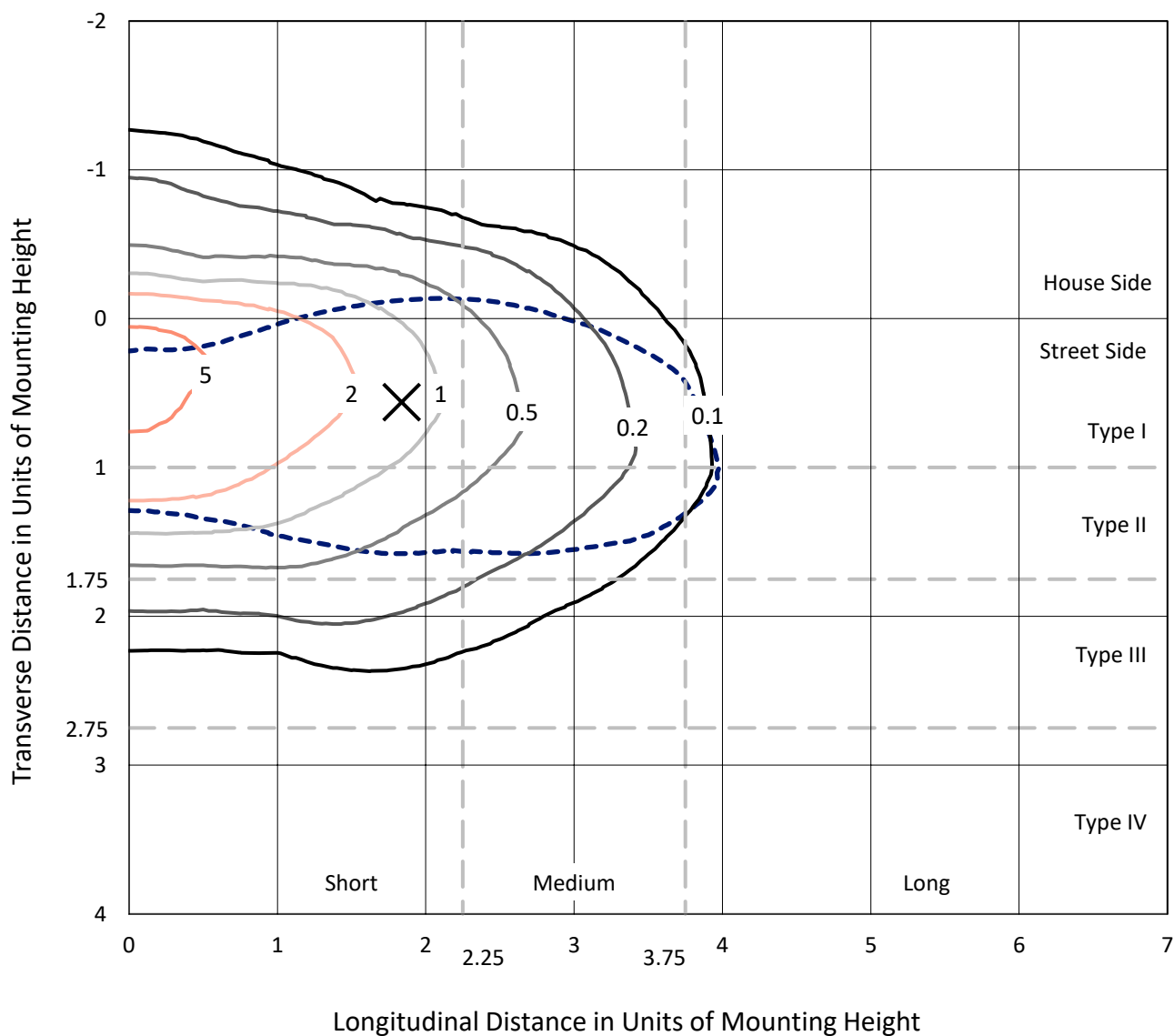
Input Watts (W): 132.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

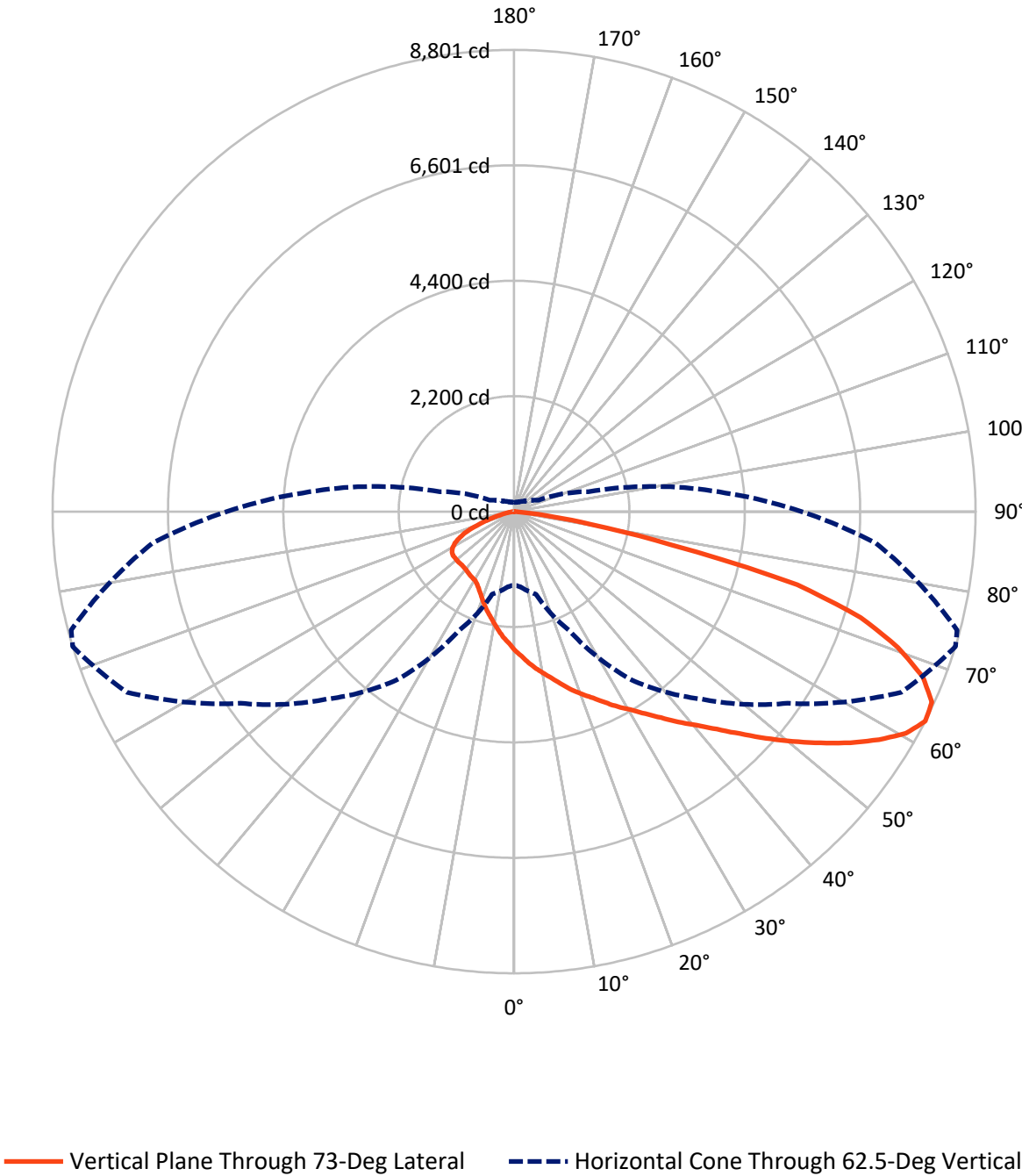
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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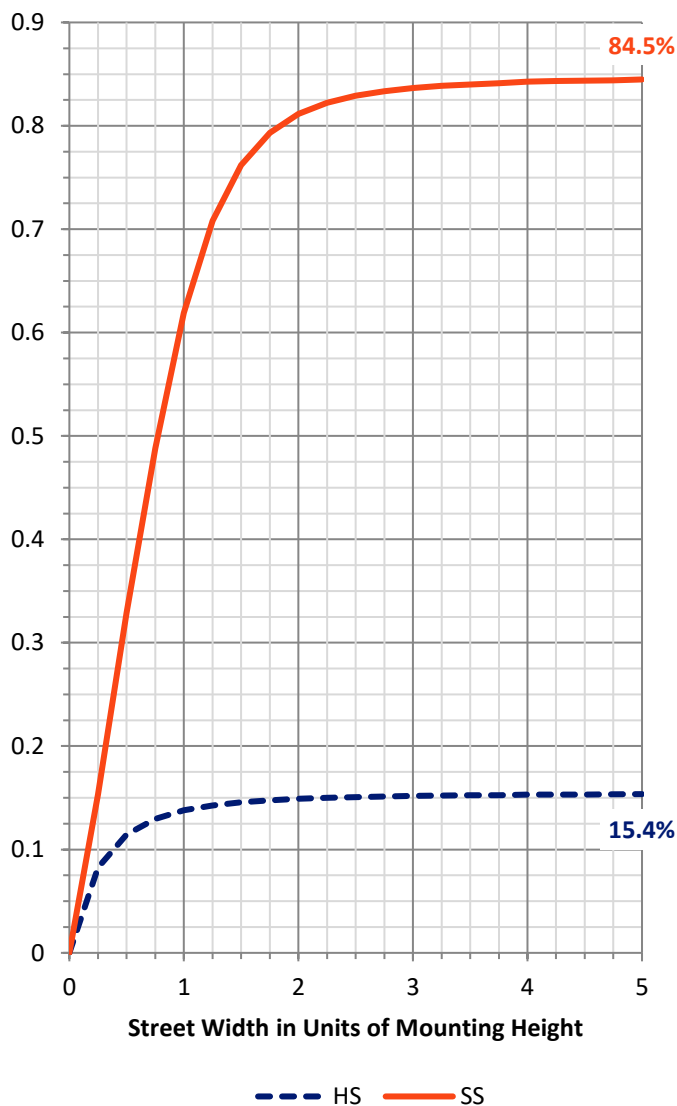
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2169.4	0.0	2169.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	11825.6	0.0	11825.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	13995.0	0.0	13995.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.0	1.8
10°-20°	772.5	5.5
20°-30°	1285.8	9.2
30°-40°	1940.2	13.9
40°-50°	2711.8	19.4
50°-60°	2995.4	21.4
60°-70°	2609.4	18.6
70°-80°	1318.1	9.4
80°-90°	105.8	0.8
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°	13995.0	100.0
0°-180°	13995.0	100.0

Coefficient of Utilization



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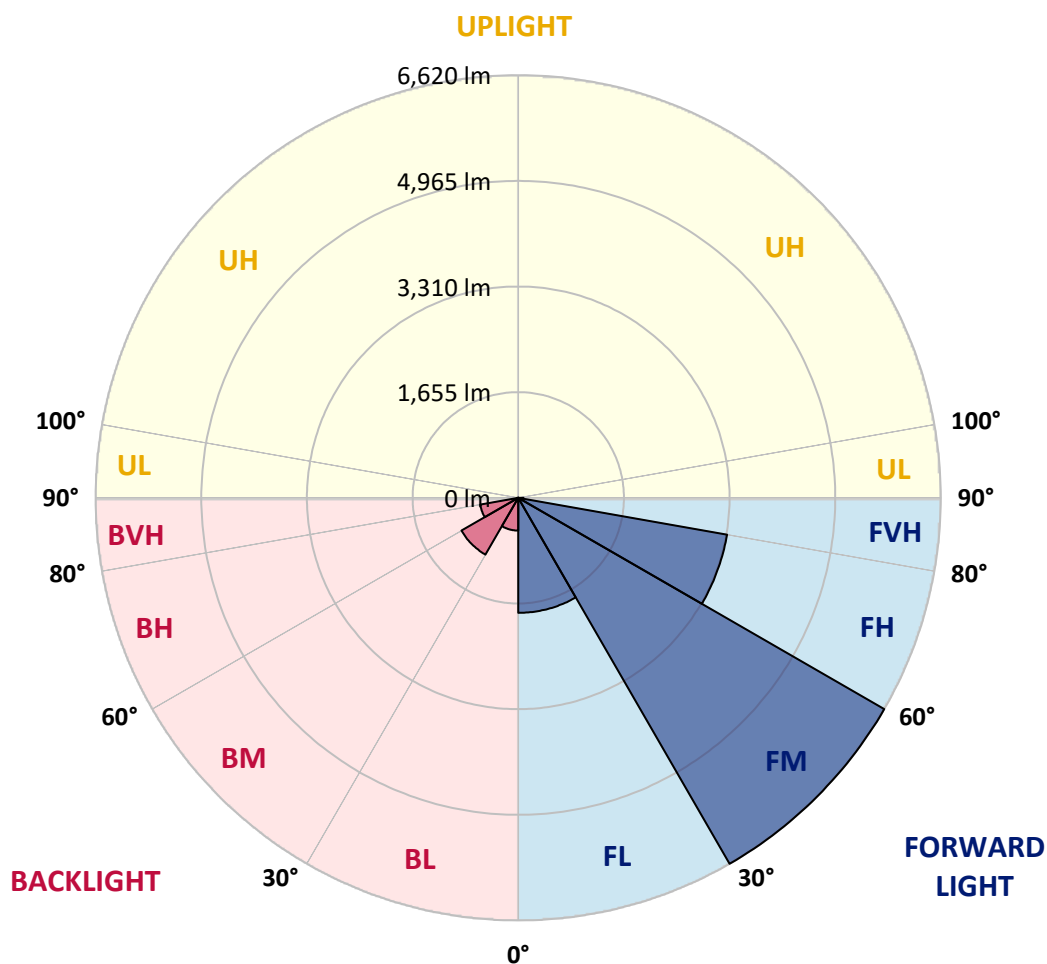
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1801.6	12.9			
FM	(30°-60°)	6620.2	47.3			
FH	(60°-80°)	3322.0	23.7			G2/5000
FVH	(80°-90°)	81.9	0.6			G1/100
BL	(0°-30°)	512.8	3.7	B2/1000		
BM	(30°-60°)	1027.2	7.3	B2/2500		
BH	(60°-80°)	605.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	23.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2650.0	2650.0	2650.0	2650.0	2650.0	2650.0	2650.0	2650.0	2650.0	2650.0	2650.0
2.5°	3015.9	3049.5	3031.2	3043.4	2982.4	2942.7	2897.0	2808.6	2759.8	2753.7	2695.7
5°	3458.1	3494.7	3464.2	3455.0	3348.3	3256.8	3153.1	2997.6	2893.9	2875.6	2747.6
7.5°	3900.3	3933.8	3897.2	3869.8	3726.4	3564.8	3412.3	3183.6	3022.0	2991.5	2790.3
10°	4211.3	4241.8	4214.4	4186.9	4037.5	3872.8	3656.3	3357.5	3137.9	3089.1	2817.7
12.5°	4446.1	4464.4	4452.2	4427.8	4287.5	4110.7	3903.3	3552.6	3269.0	3208.0	2860.4
15°	4638.2	4668.7	4653.5	4635.2	4501.0	4324.1	4125.9	3756.9	3421.5	3345.3	2924.4
17.5°	4766.3	4787.7	4790.7	4790.7	4671.8	4498.0	4305.8	3943.0	3574.0	3476.4	2985.4
20°	4824.2	4848.6	4863.9	4888.3	4790.7	4641.3	4446.1	4101.5	3717.3	3607.5	3043.4
22.5°	4851.7	4873.0	4912.7	4967.6	4888.3	4763.3	4583.3	4247.9	3860.6	3744.7	3110.5
25°	4873.0	4900.5	4958.4	5062.1	5007.2	4900.5	4745.0	4415.6	4031.4	3912.5	3208.0
27.5°	4931.0	4964.5	5019.4	5144.4	5077.4	5025.5	4915.7	4595.5	4211.3	4089.3	3327.0
30°	5132.2	5159.7	5156.6	5235.9	5153.6	5138.3	5062.1	4769.4	4385.1	4263.1	3467.2
32.5°	5498.2	5525.6	5458.5	5428.0	5248.1	5251.2	5220.7	4955.4	4592.5	4467.5	3628.9
35°	5891.6	5922.1	5833.6	5781.8	5479.9	5391.4	5406.7	5187.1	4824.2	4699.2	3830.1
37.5°	6242.2	6278.8	6202.6	6126.4	5821.4	5617.1	5614.1	5446.3	5089.6	4961.5	4052.7
40°	6434.4	6477.1	6522.8	6480.1	6159.9	5934.3	5836.7	5711.6	5351.8	5220.7	4293.6
42.5°	6525.8	6644.8	6727.1	6699.7	6437.4	6208.7	6092.8	5989.1	5672.0	5543.9	4580.3
45°	6269.7	6272.7	6446.6	6596.0	6547.2	6394.7	6373.4	6300.2	6037.9	5916.0	4903.5
47.5°	5949.5	5925.1	6047.1	6312.4	6449.6	6489.3	6614.3	6644.8	6455.7	6333.7	5232.9
50°	5181.0	5196.3	5592.7	5973.9	6242.2	6498.4	6785.1	6998.5	6885.7	6769.8	5580.5
52.5°	4214.4	4251.0	4705.3	5543.9	5967.8	6406.9	6885.7	7352.3	7324.8	7215.0	5928.2
55°	3378.8	3436.7	3918.6	4827.3	5617.1	6202.6	6928.4	7675.5	7779.2	7678.5	6269.7
57.5°	2582.9	2643.9	3049.5	3982.6	5168.8	5870.2	6897.9	7959.1	8203.1	8139.0	6583.8
60°	1945.6	2006.5	2265.8	3229.4	4607.7	5498.2	6745.4	8145.1	8584.2	8517.1	6812.5
62.5°	1393.6	1442.4	1634.5	2512.8	3924.7	5056.0	6370.3	8148.2	8800.7	8745.9	6922.3
65°	1003.3	1003.3	1158.8	1793.1	3284.3	4525.4	5803.1	7773.1	8755.0	8739.8	6846.0
67.5°	722.7	728.8	853.8	1253.3	2619.5	3882.0	5068.2	7105.2	8401.3	8477.5	6571.6
70°	512.3	527.6	585.5	875.2	1979.1	3064.7	4281.4	6230.1	7763.9	7898.1	6041.0
72.5°	396.4	405.6	445.2	609.9	1445.4	2277.9	3412.3	5254.2	6913.1	7065.6	5318.3
75°	304.9	314.1	344.6	448.3	1036.8	1597.9	2424.3	4077.1	5574.4	5845.8	4272.3
77.5°	222.6	234.8	256.2	326.3	603.8	1015.5	1469.8	2293.2	3076.9	3205.0	2238.3
80°	103.7	118.9	149.4	210.4	326.3	478.8	521.5	884.3	1479.0	1546.1	1213.7
82.5°	57.9	73.2	85.4	128.1	164.7	170.8	176.9	222.6	558.1	616.0	509.3
85°	27.4	36.6	39.6	54.9	54.9	48.8	57.9	42.7	91.5	109.8	106.7
87.5°	0.0	3.0	6.1	15.2	12.2	9.1	9.1	9.1	9.1	12.2	9.1
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°	2650.0	2650.0	2650.0	2650.0	2650.0	2650.0	2650.0	2650.0	2650.0	2650.0	2650.0
2.5°	2668.3	2628.6	2537.2	2457.9	2406.0	2360.3	2299.3	2271.8	2223.1	2232.2	2204.8
5°	2683.5	2610.3	2448.7	2299.3	2189.5	2091.9	1985.2	1924.2	1857.1	1851.0	1829.7
7.5°	2692.7	2579.8	2348.1	2137.7	1970.0	1820.5	1677.2	1597.9	1515.6	1497.3	1479.0
10°	2683.5	2534.1	2244.4	1970.0	1747.3	1561.3	1399.7	1299.1	1213.7	1192.3	1174.0
12.5°	2692.7	2509.7	2146.8	1814.4	1549.1	1338.7	1155.7	1052.1	972.8	951.4	939.2
15°	2714.0	2494.5	2064.5	1674.2	1372.3	1137.4	957.5	869.1	805.1	783.7	777.6
17.5°	2732.3	2479.2	1976.1	1536.9	1195.4	960.6	805.1	731.9	677.0	655.6	649.5
20°	2756.7	2457.9	1887.6	1405.8	1039.9	820.3	683.1	619.0	576.3	561.1	558.1
22.5°	2778.1	2442.6	1805.3	1274.7	896.5	707.5	591.6	539.8	509.3	494.0	494.0
25°	2833.0	2448.7	1735.1	1152.7	789.8	619.0	521.5	481.8	457.4	448.3	448.3
27.5°	2897.0	2473.1	1680.3	1049.0	698.3	552.0	472.7	439.1	426.9	414.7	417.8
30°	2988.5	2521.9	1643.7	963.6	631.2	500.1	433.0	408.6	396.4	393.4	393.4
32.5°	3104.4	2601.2	1640.6	908.7	582.4	460.5	405.6	384.2	378.1	375.1	375.1
35°	3241.6	2671.3	1622.3	884.3	552.0	433.0	384.2	369.0	365.9	365.9	365.9
37.5°	3406.2	2787.2	1610.1	850.8	536.7	417.8	369.0	356.8	356.8	356.8	356.8
40°	3577.0	2881.7	1591.8	820.3	530.6	408.6	359.8	344.6	344.6	344.6	344.6
42.5°	3781.3	3019.0	1585.7	805.1	521.5	402.5	347.6	329.3	332.4	332.4	335.4
45°	4028.3	3174.5	1582.7	789.8	518.4	396.4	335.4	314.1	317.1	314.1	314.1
47.5°	4278.4	3354.4	1591.8	780.7	515.4	390.3	326.3	298.8	298.8	295.8	295.8
50°	4540.6	3519.1	1597.9	771.5	509.3	378.1	311.0	286.6	280.6	274.5	277.5
52.5°	4787.7	3671.6	1601.0	756.3	491.0	359.8	298.8	271.4	262.3	253.1	256.2
55°	5034.7	3817.9	1607.1	738.0	466.6	341.5	283.6	256.2	244.0	231.8	231.8
57.5°	5257.3	3946.0	1591.8	692.2	439.1	323.2	268.4	237.9	219.6	207.4	207.4
60°	5409.7	4037.5	1546.1	625.1	402.5	301.9	253.1	219.6	198.2	189.1	189.1
62.5°	5482.9	4052.7	1463.7	515.4	356.8	280.6	234.8	201.3	183.0	176.9	176.9
65°	5412.8	3985.6	1335.7	387.3	308.0	256.2	216.5	186.0	167.7	152.5	152.5
67.5°	5168.8	3796.6	1158.8	292.7	262.3	231.8	198.2	170.8	149.4	137.2	137.2
70°	4677.9	3403.2	896.5	234.8	222.6	201.3	179.9	152.5	134.2	118.9	118.9
72.5°	4034.4	2884.8	631.2	189.1	189.1	170.8	152.5	134.2	115.9	103.7	103.7
75°	3095.2	2134.6	423.9	152.5	155.5	143.3	125.0	109.8	97.6	88.4	88.4
77.5°	1689.4	1055.1	259.2	112.8	115.9	109.8	97.6	88.4	82.3	73.2	73.2
80°	820.3	463.5	149.4	79.3	82.3	79.3	73.2	64.0	64.0	57.9	57.9
82.5°	344.6	173.8	79.3	54.9	54.9	48.8	45.7	45.7	45.7	42.7	42.7
85°	85.4	33.5	33.5	30.5	30.5	30.5	27.4	27.4	27.4	21.3	24.4
87.5°	12.2	12.2	12.2	12.2	12.2	12.2	9.1	3.0	0.0	0.0	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)