

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: P841223

Luminaire Tested: **ARCH4-150-722-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14928 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

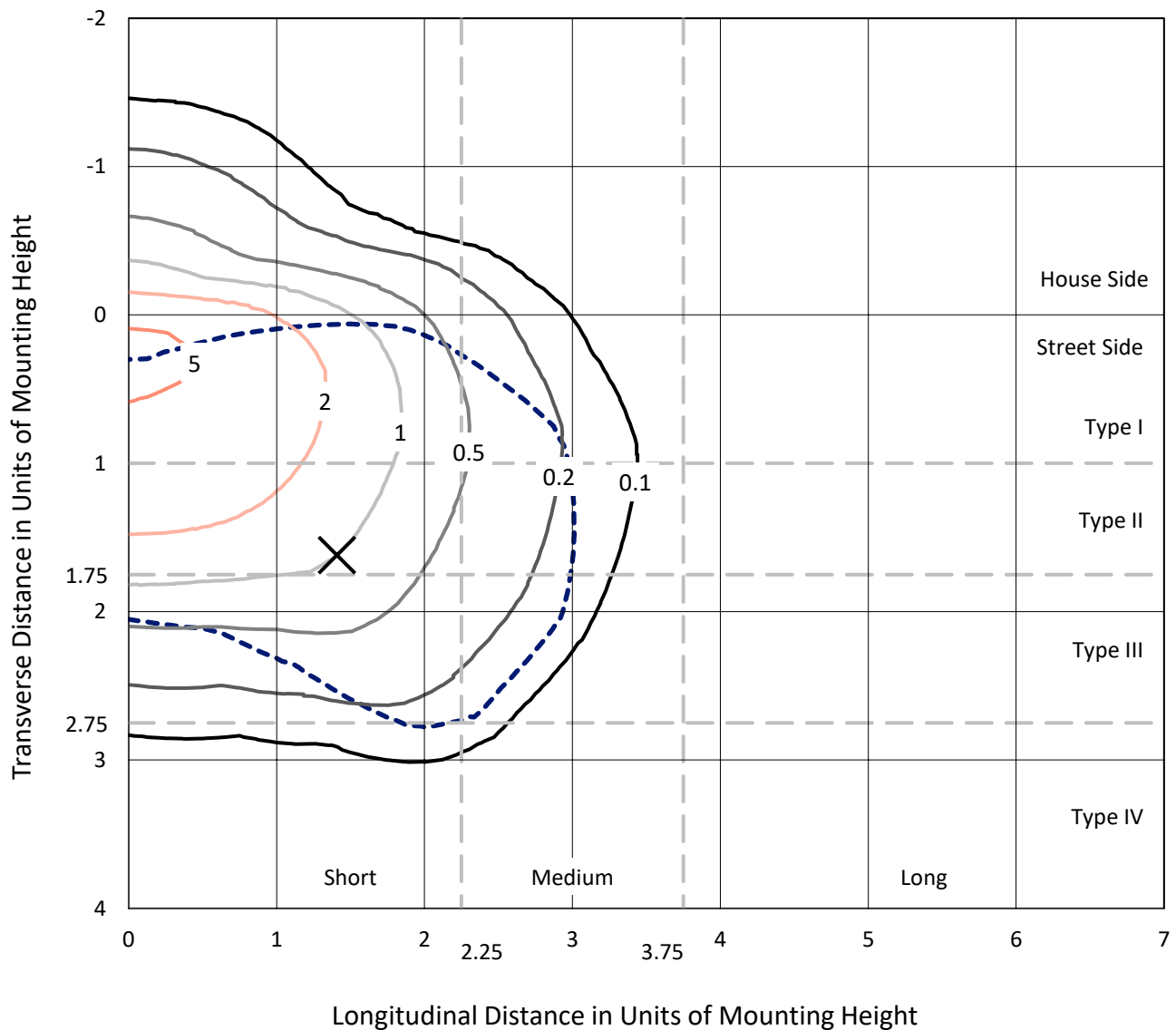
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

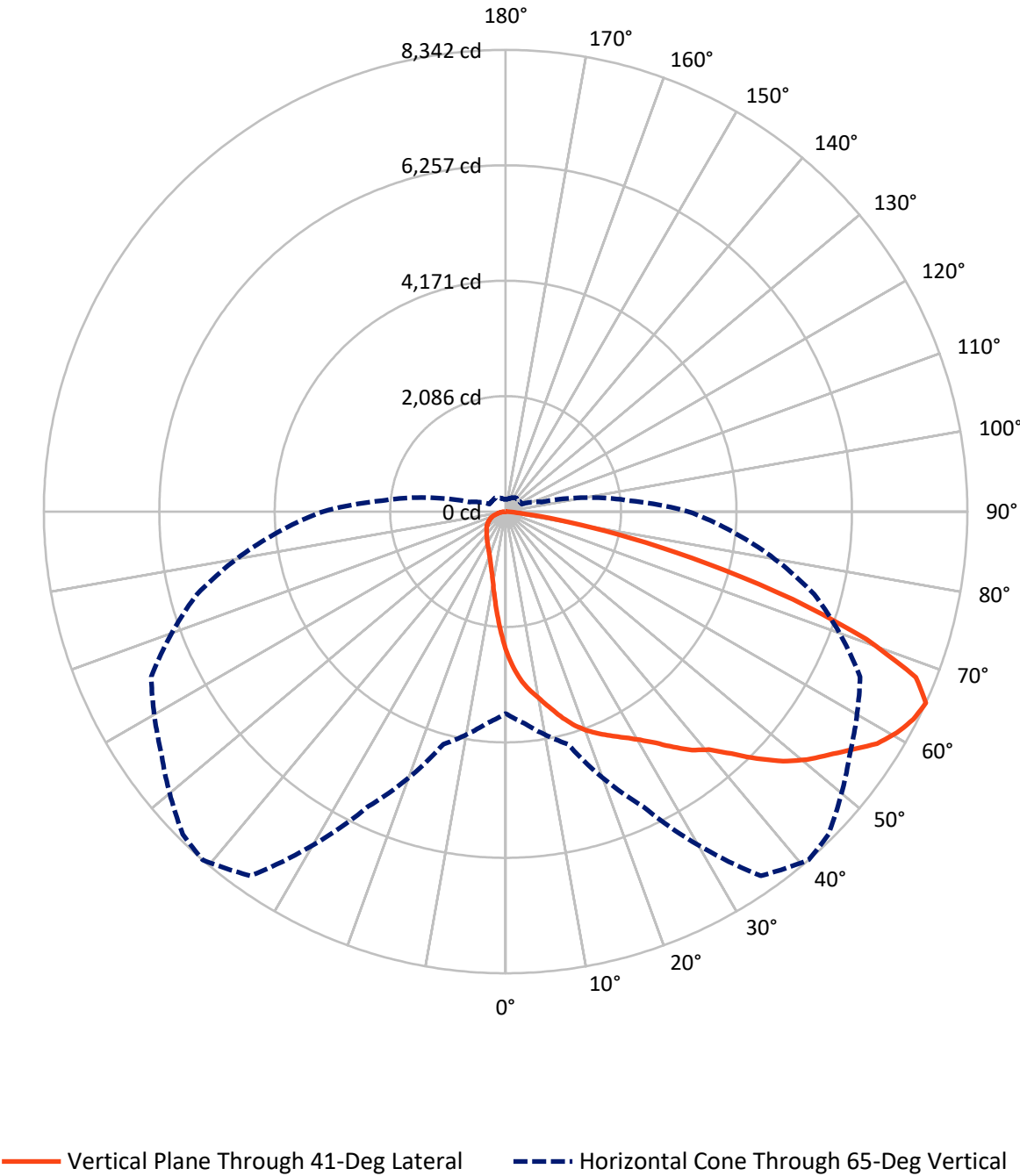
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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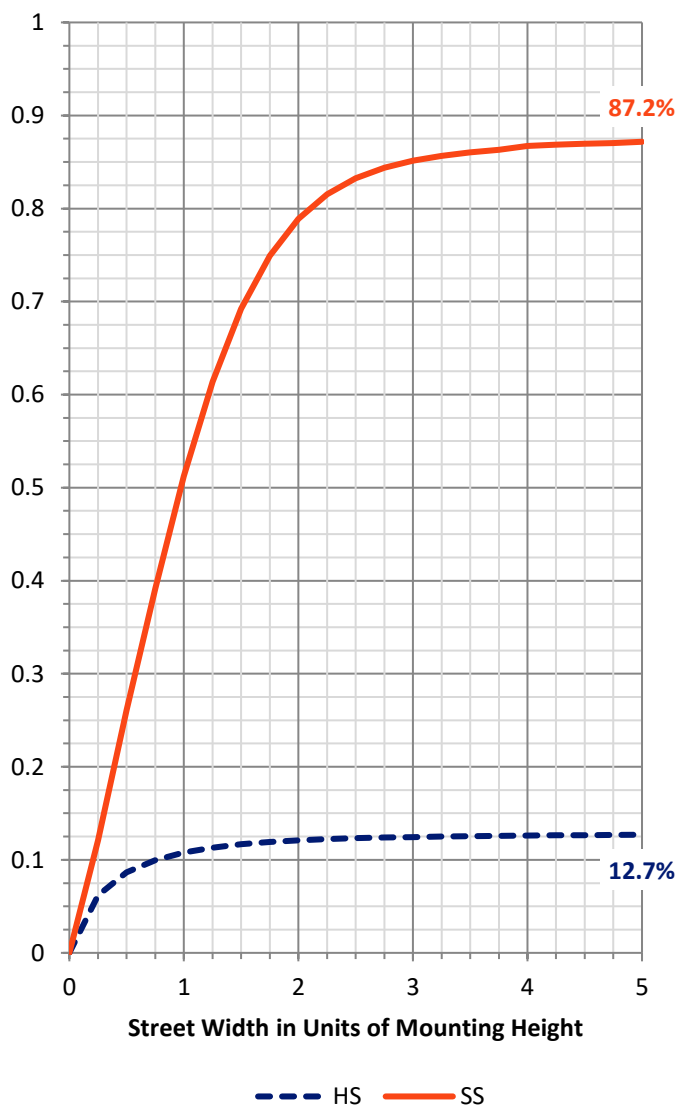
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1916.5	0.0	1916.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	13011.5	0.0	13011.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	14928.0	0.0	14928.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	1.6
10°-20°	710.7	4.8
20°-30°	1222.6	8.2
30°-40°	1854.3	12.4
40°-50°	2716.6	18.2
50°-60°	3430.4	23.0
60°-70°	3216.6	21.5
70°-80°	1433.7	9.6
80°-90°	106.2	0.7
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°	14928.0	100.0
0°-180°	14928.0	100.0

Coefficient of Utilization



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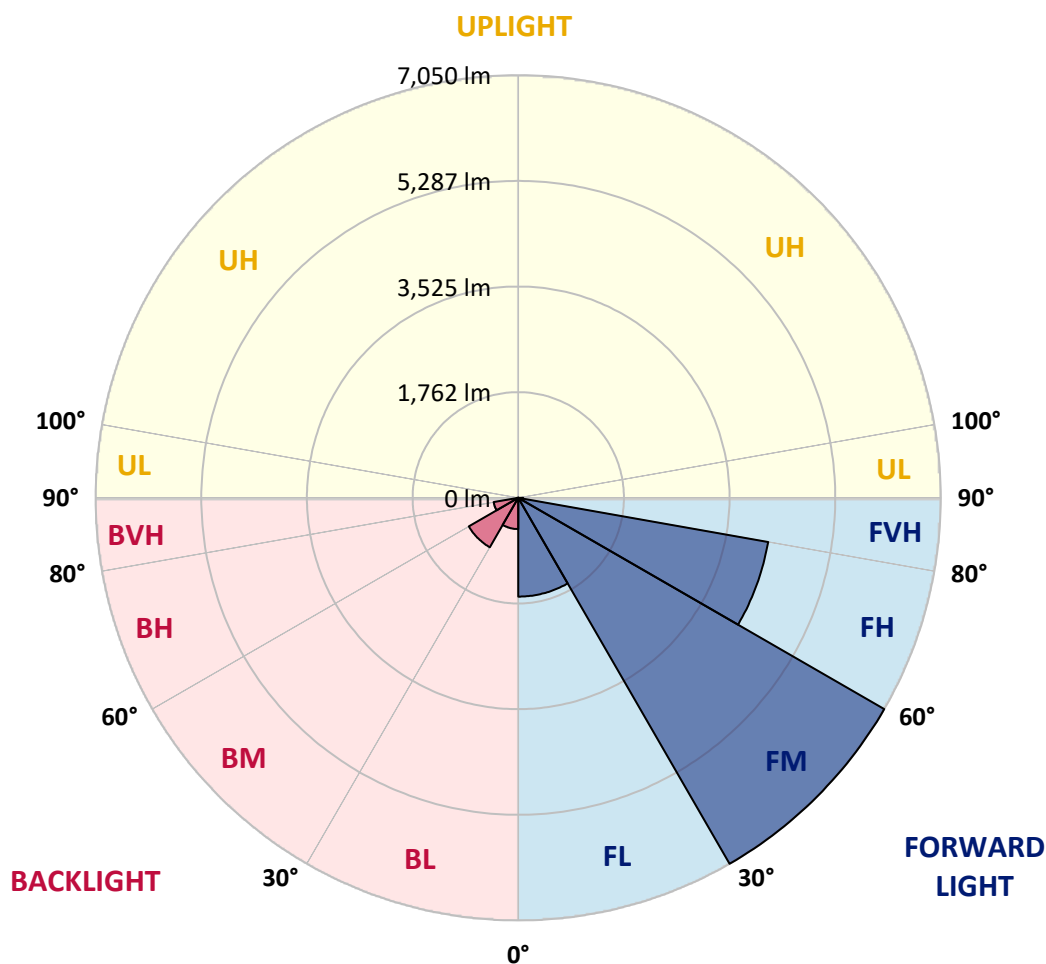
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1648.6	11.0			
FM	(30°-60°)	7049.6	47.2			
FH	(60°-80°)	4234.0	28.4			G2/5000
FVH	(80°-90°)	79.3	0.5			G1/100
BL	(0°-30°)	521.7	3.5	B2/1000		
BM	(30°-60°)	951.7	6.4	B1/1000		
BH	(60°-80°)	416.3	2.8	B1/500		G1/500
BVH	(80°-90°)	26.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7
2.5°	2934.0	2924.6	2918.3	2883.6	2883.6	2836.4	2839.6	2795.5	2742.0	2657.0	2565.7
5°	3211.0	3198.5	3182.7	3148.1	3135.5	3088.3	3082.0	3019.0	2927.7	2779.8	2616.1
7.5°	3453.4	3440.9	3418.8	3368.5	3333.8	3277.2	3261.4	3179.6	3078.8	2896.2	2666.4
10°	3673.8	3664.4	3636.0	3573.1	3525.9	3456.6	3428.3	3318.1	3192.2	2990.7	2707.4
12.5°	3897.3	3884.7	3847.0	3793.4	3736.8	3654.9	3620.3	3478.6	3318.1	3094.6	2767.2
15°	4105.1	4086.2	4057.9	4001.2	3950.8	3872.1	3834.4	3667.5	3472.3	3211.0	2845.9
17.5°	4240.5	4224.7	4199.5	4168.1	4127.1	4067.3	4029.5	3865.8	3626.6	3324.4	2927.7
20°	4322.3	4316.0	4306.6	4287.7	4268.8	4227.9	4199.5	4045.3	3793.4	3434.6	3006.4
22.5°	4385.3	4379.0	4375.8	4375.8	4379.0	4363.2	4344.4	4212.1	3954.0	3551.0	3078.8
25°	4482.9	4479.7	4473.4	4467.1	4489.2	4492.3	4486.0	4394.7	4155.5	3705.3	3170.1
27.5°	4618.2	4608.8	4596.2	4589.9	4611.9	4627.7	4640.3	4577.3	4369.5	3862.7	3274.0
30°	4826.0	4797.7	4766.2	4744.2	4759.9	4785.1	4813.4	4775.6	4589.9	4057.9	3381.0
32.5°	5071.6	5036.9	4964.5	4923.6	4964.5	4983.4	5005.5	4986.6	4819.7	4268.8	3488.1
35°	5370.6	5329.7	5254.2	5194.3	5266.7	5225.8	5216.4	5197.5	5036.9	4476.6	3607.7
37.5°	5868.0	5808.2	5688.6	5556.4	5556.4	5468.2	5433.6	5376.9	5232.1	4662.3	3724.2
40°	6444.1	6365.4	6211.2	6016.0	5836.6	5654.0	5631.9	5591.0	5461.9	4876.4	3856.4
42.5°	7076.9	6925.8	6711.7	6475.6	6186.0	5978.2	5927.8	5811.4	5685.4	5093.6	3988.6
45°	7778.9	7464.1	7152.5	7032.8	6554.3	6365.4	6271.0	6060.1	5918.4	5320.3	4127.1
47.5°	7892.3	7646.7	7438.9	7420.0	6897.5	6740.1	6633.0	6330.8	6170.2	5562.7	4272.0
50°	7829.3	7681.3	7703.4	7627.8	7149.3	7045.4	6963.6	6620.4	6418.9	5795.6	4404.2
52.5°	7564.8	7646.7	7772.6	7634.1	7388.6	7303.6	7262.6	6932.1	6651.9	6009.7	4523.8
55°	7250.0	7306.7	7577.4	7747.4	7665.6	7590.0	7552.3	7294.1	6881.7	6189.1	4634.0
57.5°	6790.4	6765.2	7064.3	7728.6	7955.2	7911.1	7870.2	7649.8	7095.8	6318.2	4703.2
60°	6101.0	6047.5	6425.2	7350.8	8049.7	8118.9	8100.0	7886.0	7259.5	6315.1	4674.9
62.5°	4907.9	5040.1	5562.7	6733.8	8090.6	8266.9	8232.2	7904.8	7313.0	6132.5	4495.5
65°	3648.6	3837.5	4350.7	5883.8	8033.9	8342.4	8248.0	7596.3	7064.3	5770.4	4102.0
67.5°	2628.7	2795.5	3170.1	4841.8	7489.3	7996.1	7886.0	7092.6	6491.4	5257.3	3557.3
70°	1797.6	1917.2	2172.2	3525.9	6393.8	6913.2	6843.9	6340.2	5587.9	4646.6	2889.9
72.5°	1268.7	1319.0	1482.7	2326.4	4857.5	5424.2	5342.3	5216.4	4489.2	3862.7	2247.7
75°	950.7	982.2	1070.3	1504.8	3277.2	3758.8	3683.3	3755.7	3352.7	2924.6	1637.0
77.5°	358.9	390.4	607.6	960.2	1939.2	2307.5	2232.0	2276.1	1863.7	1476.5	815.4
80°	97.6	103.9	201.5	456.5	881.5	1149.1	1045.2	897.2	692.6	680.0	431.3
82.5°	40.9	47.2	91.3	245.6	314.8	314.8	264.4	327.4	264.4	318.0	207.8
85°	15.7	18.9	22.0	63.0	40.9	44.1	47.2	63.0	53.5	66.1	47.2
87.5°	0.0	0.0	0.0	3.1	3.1	6.3	3.1	6.3	9.4	9.4	9.4
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°	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7
2.5°	2527.9	2493.3	2442.9	2361.1	2276.1	2228.8	2169.0	2159.6	2096.6	2090.3	2065.1
5°	2543.7	2471.2	2342.2	2184.8	2030.5	1910.9	1822.7	1775.5	1684.2	1684.2	1659.0
7.5°	2556.2	2442.9	2235.1	2002.2	1791.3	1630.7	1511.1	1460.7	1378.9	1372.6	1353.7
10°	2559.4	2408.3	2118.7	1816.4	1558.3	1394.6	1278.1	1221.5	1149.1	1142.8	1130.2
12.5°	2584.6	2389.4	2014.8	1655.9	1391.5	1215.2	1101.8	1054.6	997.9	991.6	979.1
15°	2625.5	2389.4	1926.6	1520.5	1243.5	1079.8	982.2	938.1	897.2	890.9	884.6
17.5°	2666.4	2383.1	1838.5	1394.6	1120.7	972.8	887.8	853.1	821.7	818.5	812.2
20°	2704.2	2380.0	1750.3	1287.6	1026.3	884.6	818.5	787.0	761.8	761.8	758.7
22.5°	2742.0	2373.7	1665.3	1186.8	944.4	818.5	761.8	727.2	708.3	708.3	705.2
25°	2798.6	2373.7	1586.6	1101.8	878.3	768.1	711.5	686.3	670.5	667.4	667.4
27.5°	2864.8	2392.5	1517.4	1026.3	821.7	717.8	673.7	648.5	629.6	623.3	626.5
30°	2937.2	2408.3	1454.4	960.2	768.1	680.0	632.8	607.6	588.7	582.4	585.5
32.5°	3009.6	2427.2	1397.8	900.4	714.6	645.4	598.1	569.8	550.9	547.8	547.8
35°	3088.3	2446.1	1341.1	850.0	670.5	610.7	566.7	535.2	522.6	516.3	519.4
37.5°	3167.0	2477.5	1287.6	802.8	639.1	579.2	538.3	506.8	497.4	494.2	494.2
40°	3261.4	2524.8	1265.5	771.3	610.7	550.9	516.3	484.8	475.4	475.4	475.4
42.5°	3340.1	2562.5	1246.6	736.7	588.7	525.7	494.2	469.1	462.8	459.6	462.8
45°	3418.8	2597.2	1221.5	705.2	560.4	500.5	475.4	450.2	443.9	443.9	443.9
47.5°	3497.5	2616.1	1186.8	673.7	535.2	478.5	456.5	434.4	428.1	428.1	428.1
50°	3560.5	2631.8	1136.5	639.1	506.8	459.6	437.6	415.5	409.3	409.3	409.3
52.5°	3623.4	2634.9	1082.9	598.1	478.5	437.6	418.7	396.7	390.4	387.2	387.2
55°	3680.1	2631.8	1020.0	550.9	447.0	412.4	396.7	377.8	365.2	352.6	358.9
57.5°	3721.0	2628.7	947.6	503.7	415.5	387.2	380.9	355.7	330.5	299.1	305.4
60°	3705.3	2594.0	868.9	443.9	380.9	362.0	362.0	327.4	283.3	267.6	270.7
62.5°	3604.6	2496.4	787.0	380.9	346.3	336.8	333.7	295.9	261.3	245.6	248.7
65°	3302.3	2250.9	667.4	324.3	311.7	308.5	308.5	273.9	242.4	223.5	226.7
67.5°	2842.7	1888.9	544.6	273.9	277.0	283.3	283.3	251.8	220.4	201.5	204.6
70°	2279.2	1476.5	434.4	236.1	239.3	248.7	255.0	226.7	198.3	179.4	179.4
72.5°	1715.7	1120.7	349.4	198.3	214.1	214.1	223.5	201.5	173.1	154.3	157.4
75°	1243.5	802.8	277.0	166.8	185.7	182.6	182.6	170.0	148.0	135.4	135.4
77.5°	588.7	421.8	220.4	119.6	144.8	141.7	144.8	135.4	125.9	113.3	116.5
80°	289.6	207.8	141.7	85.0	100.7	103.9	113.3	107.0	103.9	94.4	94.4
82.5°	138.5	81.9	66.1	59.8	69.3	72.4	78.7	78.7	81.9	75.6	75.6
85°	37.8	22.0	28.3	37.8	44.1	47.2	53.5	56.7	56.7	53.5	56.7
87.5°	9.4	9.4	12.6	18.9	22.0	25.2	28.3	28.3	12.6	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)