

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: P841988

Luminaire Tested: **ARCH4-250-750-U-T4W-HSS**

Issue Date: 5/27/2024

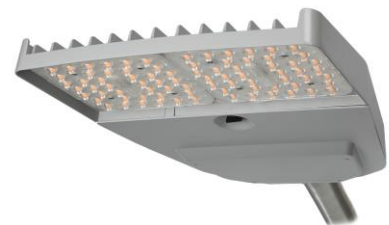
Test Information

Test Method: LM-79-08
Report Number: P841988
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: ARCH4-250-750-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 975mA 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: 26688 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

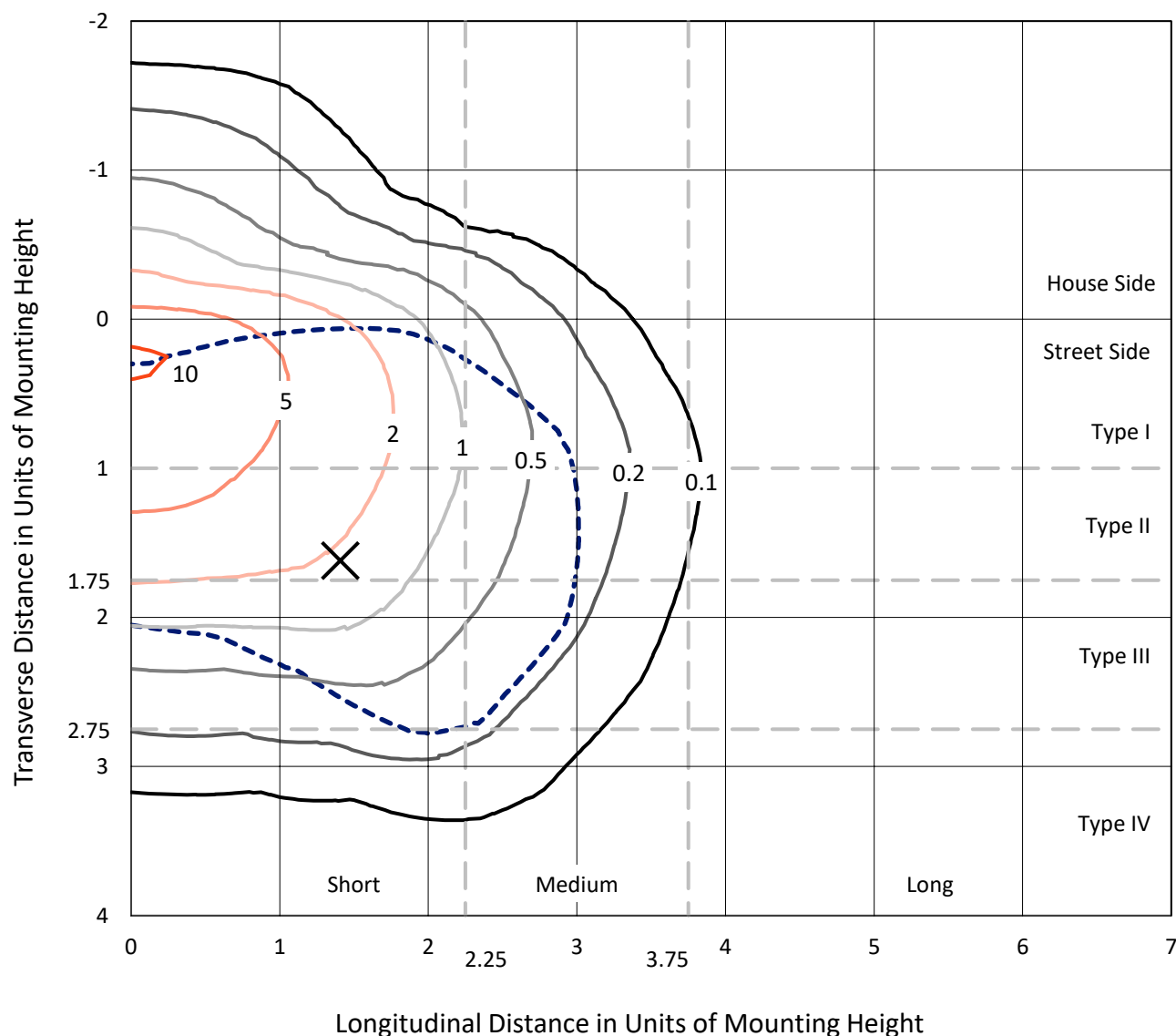
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

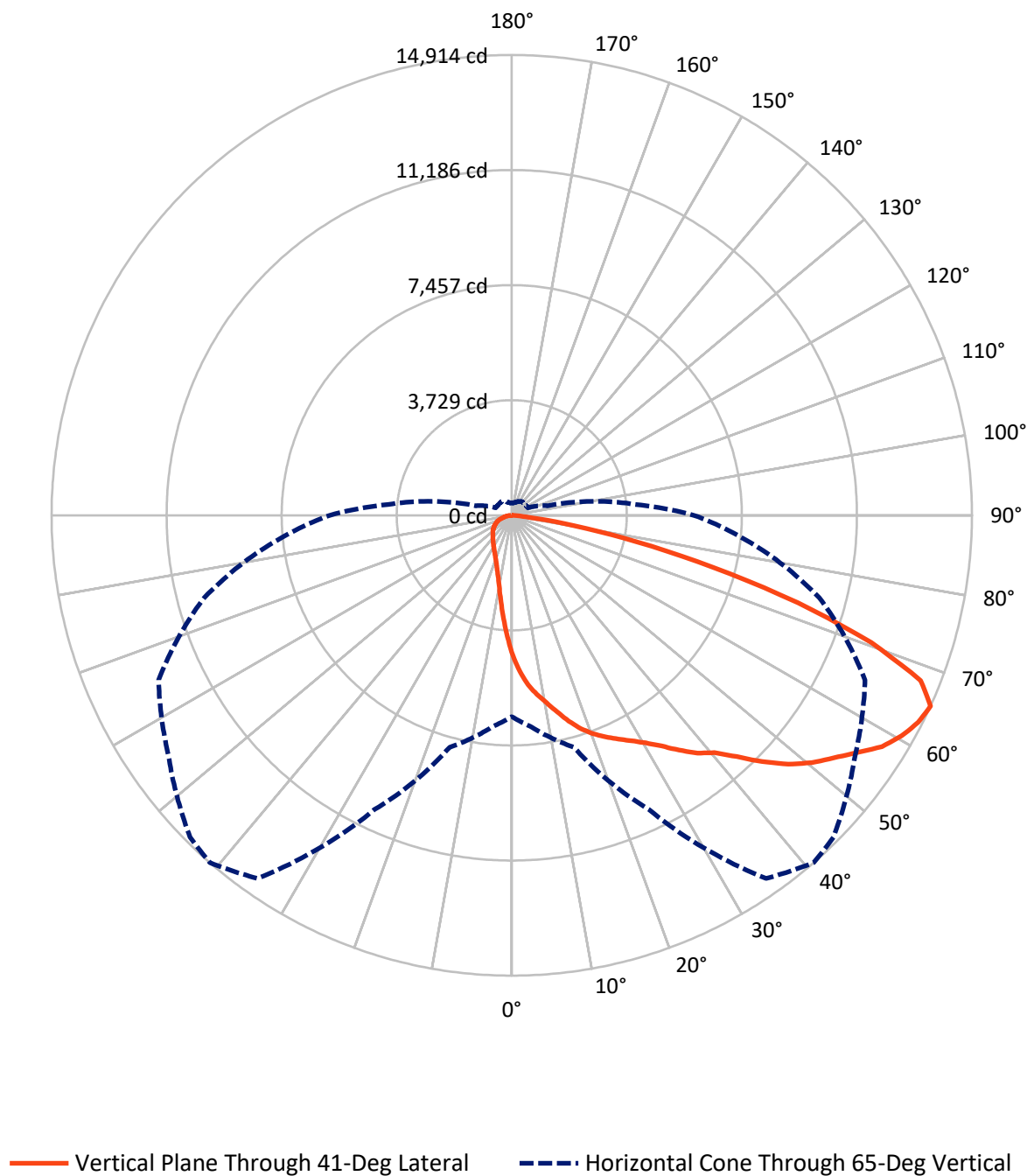
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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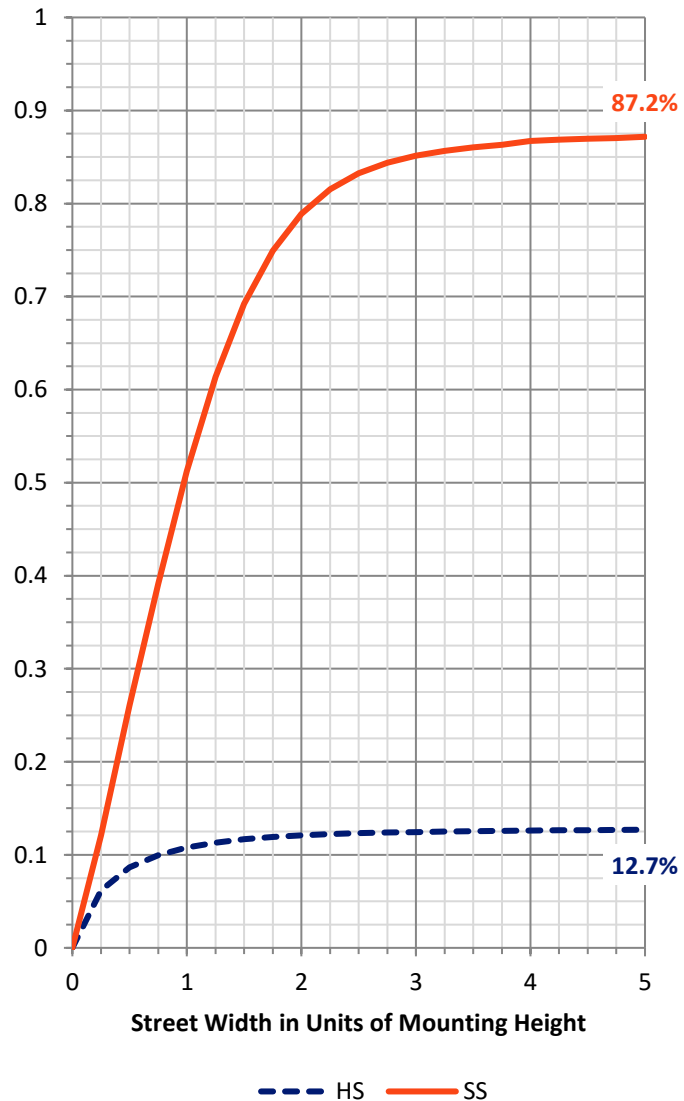
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3426.3	0.0	3426.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	23261.7	0.0	23261.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	26688.0	0.0	26688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.7	1.6
10°-20°	1270.5	4.8
20°-30°	2185.7	8.2
30°-40°	3315.0	12.4
40°-50°	4856.6	18.2
50°-60°	6132.8	23.0
60°-70°	5750.7	21.5
70°-80°	2563.1	9.6
80°-90°	189.9	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°	26688.0	100.0
0°-180°	26688.0	100.0

Coefficient of Utilization



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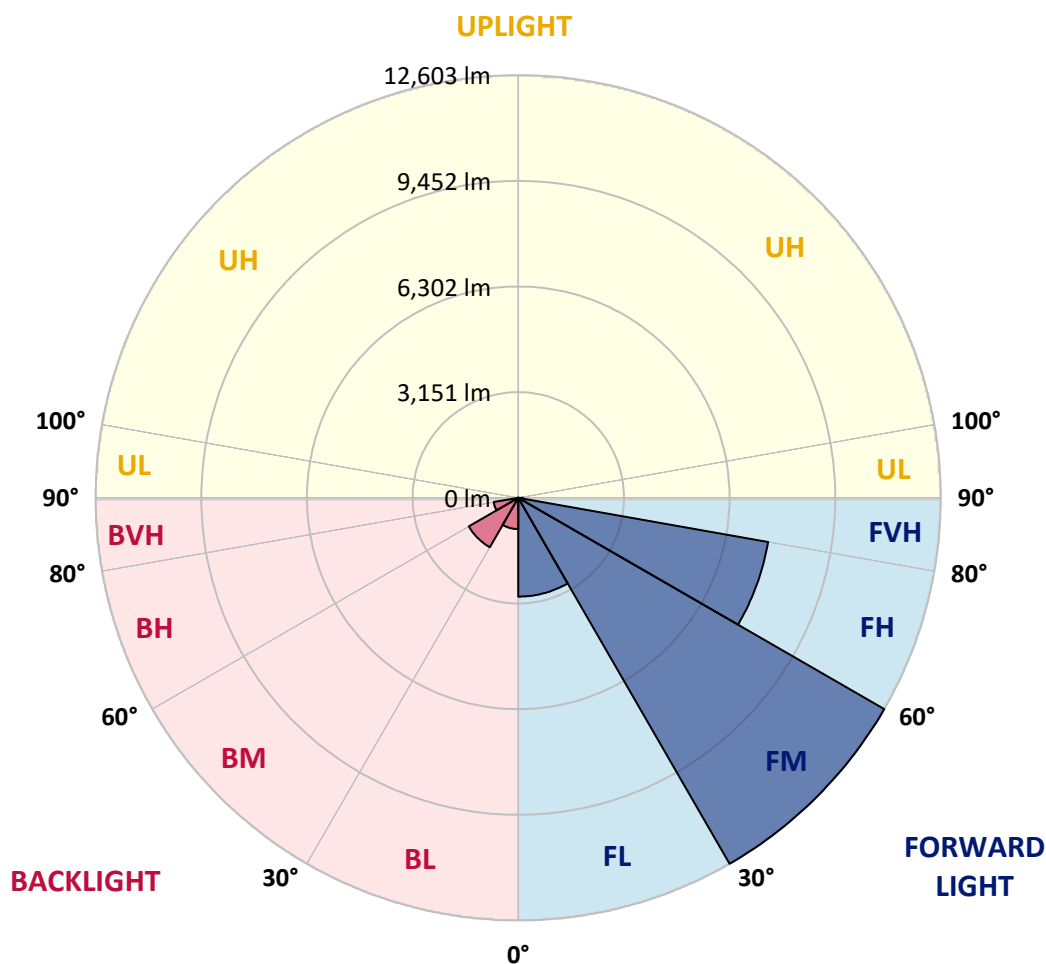
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2947.4	11.0			
FM	(30°-60°)	12603.1	47.2			
FH	(60°-80°)	7569.4	28.4			G4/12000
FVH	(80°-90°)	141.8	0.5			G2/225
BL	(0°-30°)	932.6	3.5	B2/1000		
BM	(30°-60°)	1701.4	6.4	B2/2500		
BH	(60°-80°)	744.3	2.8	B2/1000		G2/1000
BVH	(80°-90°)	48.1	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	4547.5	4547.5	4547.5	4547.5	4547.5	4547.5	4547.5	4547.5	4547.5	4547.5	4547.5
2.5°	5245.4	5228.5	5217.2	5155.3	5155.3	5070.9	5076.5	4997.7	4902.1	4750.1	4586.9
5°	5740.7	5718.1	5690.0	5628.1	5605.6	5521.2	5509.9	5397.3	5234.1	4969.6	4676.9
7.5°	6174.0	6151.5	6112.1	6022.1	5960.1	5858.8	5830.7	5684.4	5504.3	5177.8	4767.0
10°	6568.0	6551.1	6500.4	6387.9	6303.5	6179.6	6129.0	5932.0	5706.9	5346.7	4840.2
12.5°	6967.6	6945.1	6877.5	6781.8	6680.5	6534.2	6472.3	6219.0	5932.0	5532.4	4947.1
15°	7339.0	7305.3	7254.6	7153.3	7063.3	6922.5	6855.0	6556.7	6207.8	5740.7	5087.8
17.5°	7581.0	7552.9	7507.9	7451.6	7378.4	7271.5	7204.0	6911.3	6483.6	5943.3	5234.1
20°	7727.4	7716.1	7699.2	7665.5	7631.7	7558.5	7507.9	7232.1	6781.8	6140.2	5374.8
22.5°	7839.9	7828.7	7823.0	7823.0	7828.7	7800.5	7766.8	7530.4	7068.9	6348.5	5504.3
25°	8014.4	8008.8	7997.5	7986.3	8025.7	8031.3	8020.0	7856.8	7429.1	6624.3	5667.5
27.5°	8256.4	8239.5	8217.0	8205.8	8245.1	8273.3	8295.8	8183.2	7811.8	6905.7	5853.2
30°	8627.9	8577.2	8520.9	8481.5	8509.7	8554.7	8605.3	8537.8	8205.8	7254.6	6044.6
32.5°	9066.9	9004.9	8875.5	8802.3	8875.5	8909.3	8948.7	8914.9	8616.6	7631.7	6235.9
35°	9601.5	9528.4	9393.3	9286.3	9415.8	9342.6	9325.7	9292.0	9004.9	8003.1	6449.8
37.5°	10490.8	10383.8	10170.0	9933.6	9933.6	9776.0	9714.1	9612.8	9353.9	8335.2	6658.0
40°	11520.7	11380.0	11104.2	10755.3	10434.5	10108.0	10068.7	9995.5	9764.7	8717.9	6894.4
42.5°	12651.9	12381.8	11999.1	11577.0	11059.2	10687.7	10597.7	10389.5	10164.3	9106.2	7130.8
45°	13907.0	13344.2	12787.0	12573.2	11717.7	11380.0	11211.2	10834.1	10580.8	9511.5	7378.4
47.5°	14109.6	13670.6	13299.2	13265.4	12331.1	12049.7	11858.4	11318.1	11031.1	9944.8	7637.3
50°	13997.1	13732.5	13771.9	13636.9	12781.4	12595.7	12449.3	11835.9	11475.7	10361.3	7873.7
52.5°	13524.3	13670.6	13895.8	13648.1	13209.1	13057.2	12984.0	12393.1	11892.2	10744.0	8087.6
55°	12961.5	13062.8	13546.8	13850.7	13704.4	13569.3	13501.8	13040.3	12303.0	11064.8	8284.5
57.5°	12139.8	12094.8	12629.4	13817.0	14222.2	14143.4	14070.2	13676.3	12685.7	11295.6	8408.4
60°	10907.2	10811.6	11486.9	13141.6	14391.0	14514.8	14481.1	14098.4	12978.4	11289.9	8357.7
62.5°	8774.2	9010.6	9944.8	12038.5	14464.2	14779.4	14717.5	14132.1	13074.1	10963.5	8036.9
65°	6523.0	6860.6	7778.0	10518.9	14362.9	14914.4	14745.6	13580.6	12629.4	10316.3	7333.4
67.5°	4699.5	4997.7	5667.5	8656.0	13389.2	14295.3	14098.4	12680.1	11605.1	9398.9	6359.7
70°	3213.6	3427.5	3883.4	6303.5	11430.6	12359.3	12235.5	11335.0	9989.9	8307.1	5166.6
72.5°	2268.1	2358.2	2650.8	4159.2	8684.1	9697.2	9550.9	9325.7	8025.7	6905.7	4018.5
75°	1699.7	1756.0	1913.6	2690.2	5858.8	6719.9	6584.9	6714.3	5993.9	5228.5	2926.6
77.5°	641.6	697.9	1086.2	1716.6	3466.9	4125.4	3990.3	4069.1	3331.8	2639.6	1457.7
80°	174.5	185.7	360.2	816.1	1575.9	2054.3	1868.5	1604.0	1238.2	1215.7	771.0
82.5°	73.2	84.4	163.2	439.0	562.8	562.8	472.8	585.3	472.8	568.4	371.5
85°	28.1	33.8	39.4	112.6	73.2	78.8	84.4	112.6	95.7	118.2	84.4
87.5°	0.0	0.0	0.0	5.6	5.6	11.3	5.6	11.3	16.9	16.9	16.9
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°	4547.5	4547.5	4547.5	4547.5	4547.5	4547.5	4547.5	4547.5	4547.5	4547.5	4547.5
2.5°	4519.4	4457.4	4367.4	4221.1	4069.1	3984.7	3877.8	3860.9	3748.3	3737.1	3692.0
5°	4547.5	4418.0	4187.3	3905.9	3630.1	3416.2	3258.7	3174.2	3011.0	3011.0	2966.0
7.5°	4570.0	4367.4	3995.9	3579.5	3202.4	2915.3	2701.5	2611.4	2465.1	2453.8	2420.1
10°	4575.6	4305.5	3787.7	3247.4	2785.9	2493.2	2285.0	2183.7	2054.3	2043.0	2020.5
12.5°	4620.7	4271.7	3602.0	2960.4	2487.6	2172.4	1969.8	1885.4	1784.1	1772.8	1750.3
15°	4693.8	4271.7	3444.4	2718.4	2223.1	1930.4	1756.0	1677.2	1604.0	1592.7	1581.5
17.5°	4767.0	4260.5	3286.8	2493.2	2003.6	1739.1	1587.1	1525.2	1468.9	1463.3	1452.0
20°	4834.5	4254.8	3129.2	2301.9	1834.8	1581.5	1463.3	1407.0	1362.0	1362.0	1356.4
22.5°	4902.1	4243.6	2977.3	2121.8	1688.4	1463.3	1362.0	1300.1	1266.3	1266.3	1260.7
25°	5003.4	4243.6	2836.6	1969.8	1570.2	1373.3	1271.9	1226.9	1198.8	1193.2	1193.2
27.5°	5121.6	4277.3	2712.7	1834.8	1468.9	1283.2	1204.4	1159.4	1125.6	1114.4	1120.0
30°	5251.0	4305.5	2600.2	1716.6	1373.3	1215.7	1131.2	1086.2	1052.5	1041.2	1046.8
32.5°	5380.5	4339.3	2498.9	1609.6	1277.6	1153.8	1069.3	1018.7	984.9	979.3	979.3
35°	5521.2	4373.0	2397.6	1519.6	1198.8	1091.8	1013.1	956.8	934.3	923.0	928.6
37.5°	5661.9	4429.3	2301.9	1435.2	1142.5	1035.6	962.4	906.1	889.2	883.6	883.6
40°	5830.7	4513.7	2262.5	1378.9	1091.8	984.9	923.0	866.7	849.8	849.8	849.8
42.5°	5971.4	4581.3	2228.7	1317.0	1052.5	939.9	883.6	838.6	827.3	821.7	827.3
45°	6112.1	4643.2	2183.7	1260.7	1001.8	894.9	849.8	804.8	793.6	793.6	793.6
47.5°	6252.8	4676.9	2121.8	1204.4	956.8	855.5	816.1	776.7	765.4	765.4	765.4
50°	6365.4	4705.1	2031.7	1142.5	906.1	821.7	782.3	742.9	731.7	731.7	731.7
52.5°	6477.9	4710.7	1936.1	1069.3	855.5	782.3	748.5	709.1	697.9	692.3	692.3
55°	6579.2	4705.1	1823.5	984.9	799.2	737.3	709.1	675.4	652.9	630.3	641.6
57.5°	6652.4	4699.5	1694.1	900.5	742.9	692.3	681.0	636.0	590.9	534.7	545.9
60°	6624.3	4637.5	1553.4	793.6	681.0	647.2	647.2	585.3	506.5	478.4	484.0
62.5°	6444.2	4463.1	1407.0	681.0	619.1	602.2	596.6	529.0	467.1	439.0	444.6
65°	5903.9	4024.1	1193.2	579.7	557.2	551.6	551.6	489.6	433.4	399.6	405.2
67.5°	5082.2	3376.9	973.7	489.6	495.3	506.5	506.5	450.2	394.0	360.2	365.8
70°	4074.7	2639.6	776.7	422.1	427.7	444.6	455.9	405.2	354.6	320.8	320.8
72.5°	3067.3	2003.6	624.7	354.6	382.7	382.7	399.6	360.2	309.5	275.8	281.4
75°	2223.1	1435.2	495.3	298.3	332.1	326.4	326.4	303.9	264.5	242.0	242.0
77.5°	1052.5	754.2	394.0	213.9	258.9	253.3	258.9	242.0	225.1	202.6	208.2
80°	517.8	371.5	253.3	152.0	180.1	185.7	202.6	191.4	185.7	168.8	168.8
82.5°	247.6	146.3	118.2	106.9	123.8	129.4	140.7	140.7	146.3	135.1	135.1
85°	67.5	39.4	50.7	67.5	78.8	84.4	95.7	101.3	101.3	95.7	101.3
87.5°	16.9	16.9	22.5	33.8	39.4	45.0	50.7	50.7	22.5	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)