

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: P841914

Luminaire Tested: **ARCH4-240-750-U-T3-HSS**

Issue Date: 5/27/2024

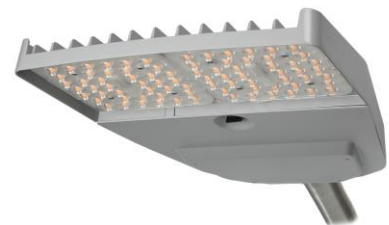
Test Information

Test Method: LM-79-08
Report Number: P841914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-240-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25425 lumens
Efficiency: N/A
Efficacy: 105.8 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): 240.2
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

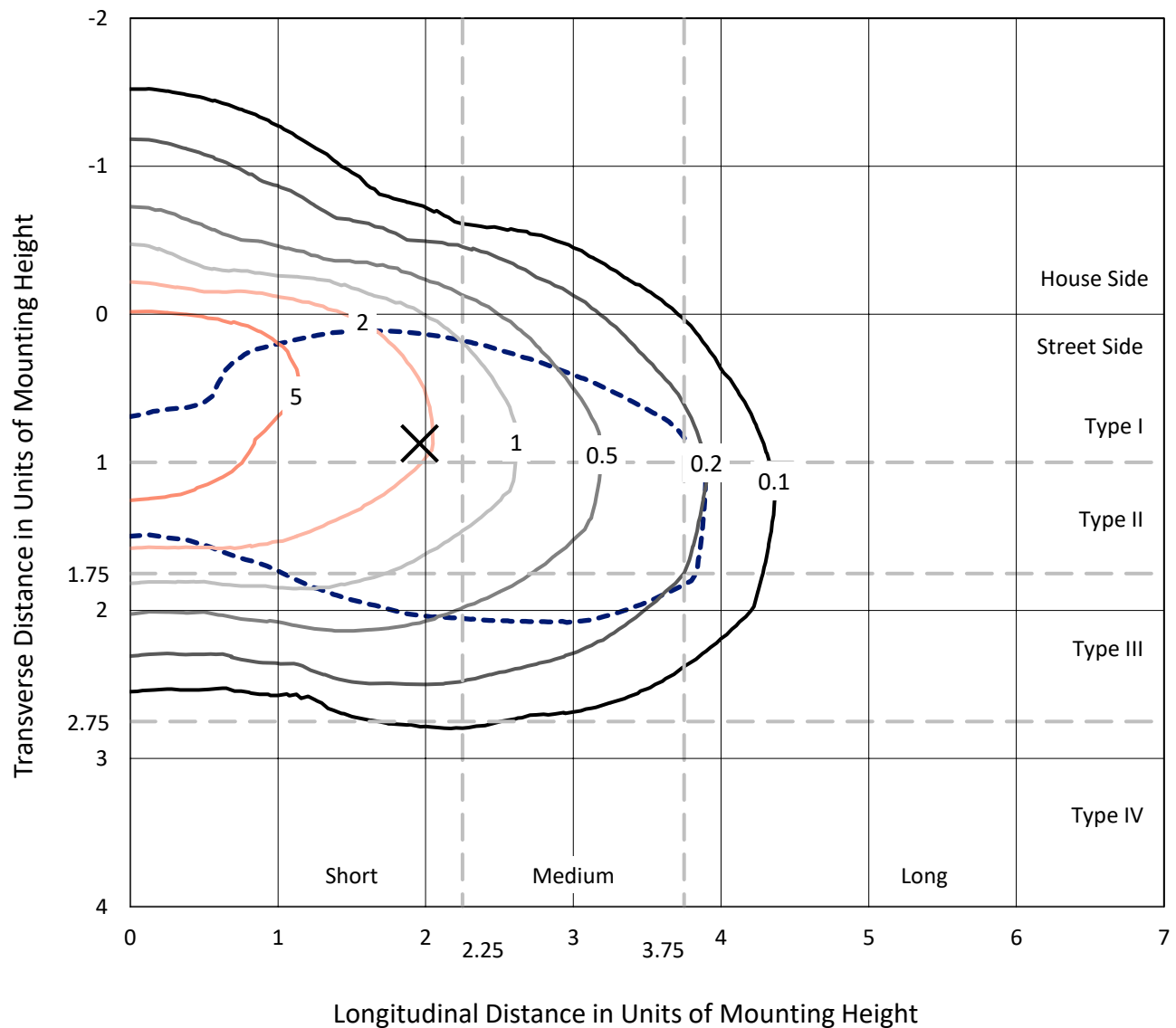


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Iso-Footcandle Lines of Horizontal Illumination

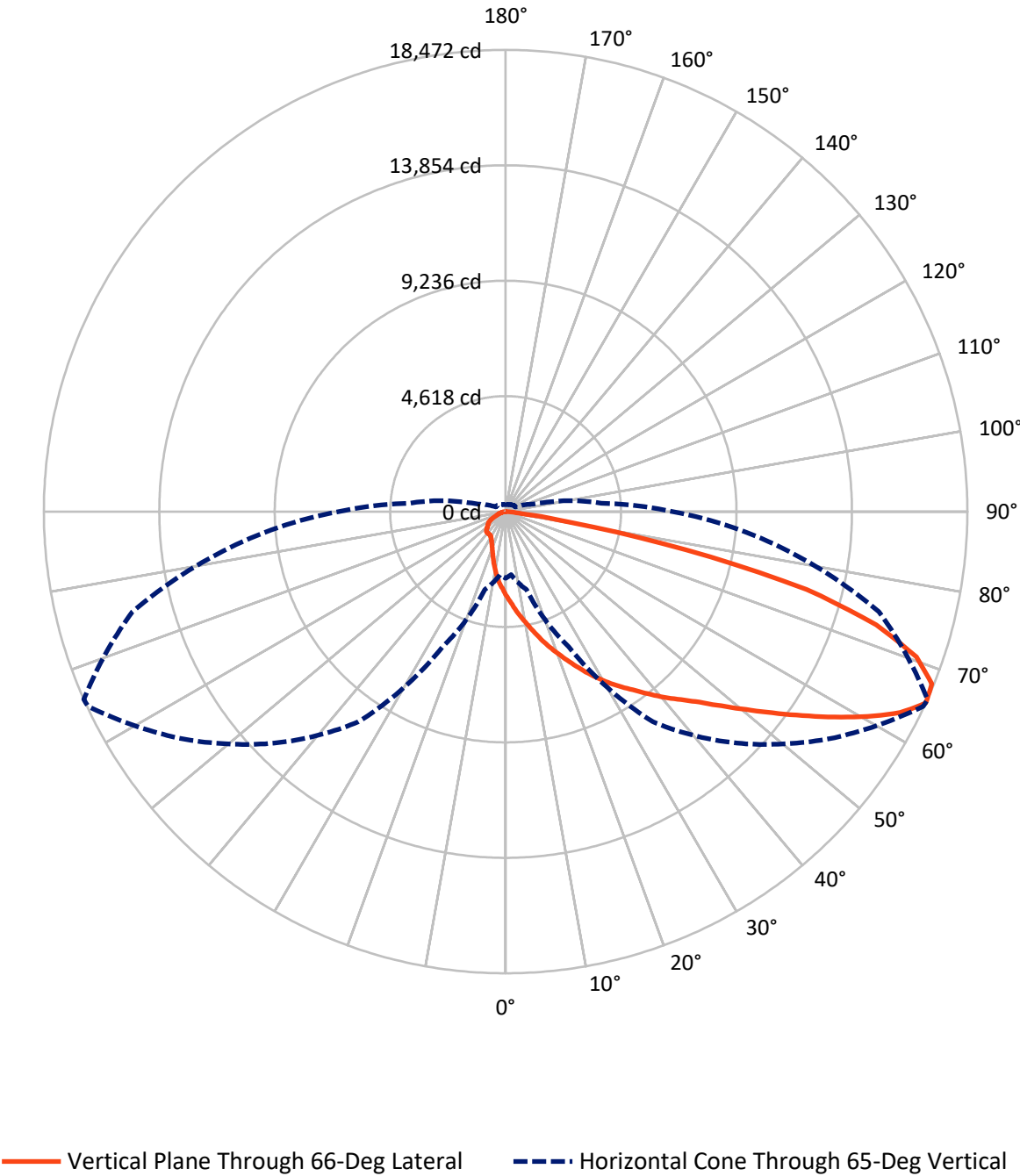
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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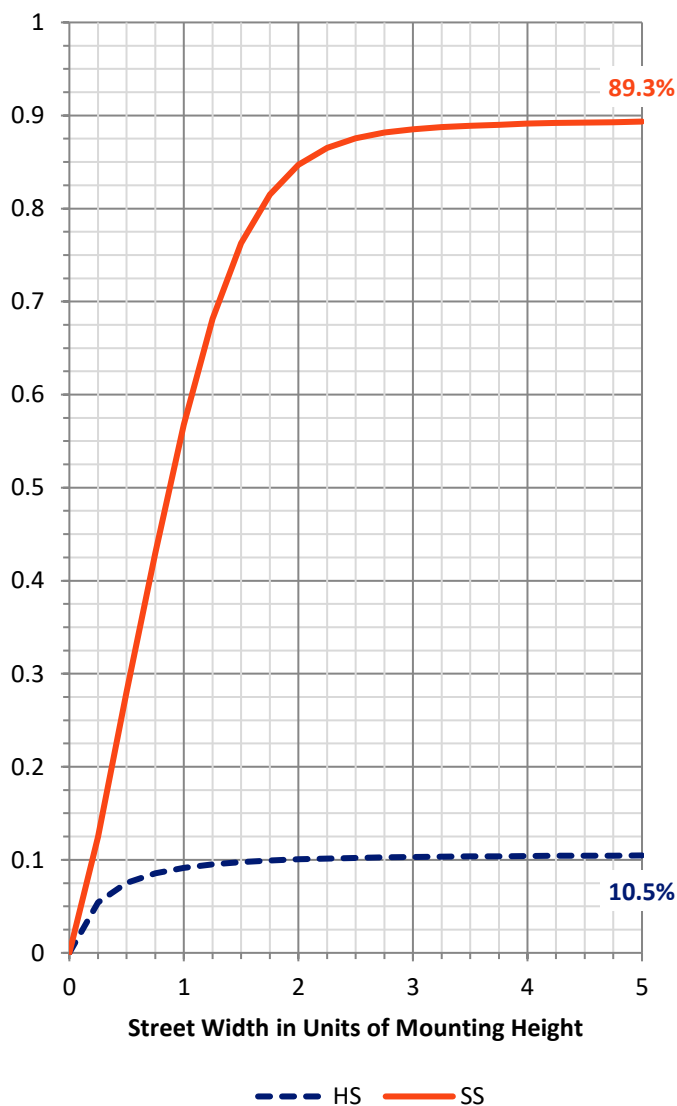
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2689.3	0.0	2689.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	22735.7	0.0	22735.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	25425.0	0.0	25425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.1	1.3
10°-20°	1082.4	4.3
20°-30°	1958.5	7.7
30°-40°	3062.5	12.0
40°-50°	4645.9	18.3
50°-60°	5902.7	23.2
60°-70°	5515.5	21.7
70°-80°	2741.2	10.8
80°-90°	184.2	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°	25425.0	100.0
0°-180°	25425.0	100.0

Coefficient of Utilization



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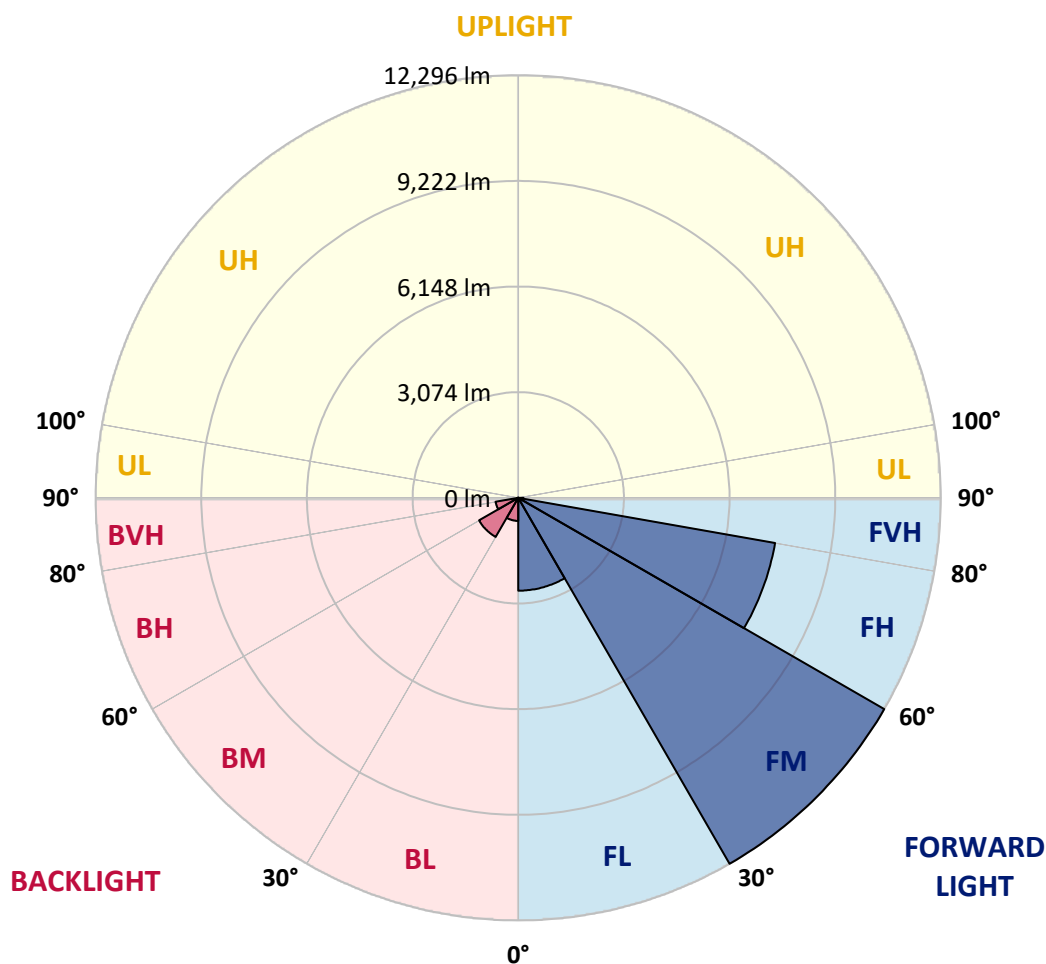
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2701.4	10.6			
FM	(30°-60°)	12295.8	48.4			
FH	(60°-80°)	7586.9	29.8			G4/12000
FVH	(80°-90°)	151.6	0.6			G2/225
BL	(0°-30°)	671.6	2.6	B2/1000		
BM	(30°-60°)	1315.3	5.2	B2/2500		
BH	(60°-80°)	669.7	2.6	B2/1000		G2/1000
BVH	(80°-90°)	32.6	0.1			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°	45°	55°	65°	66°	75°	85°
0°	3364.9	3364.9	3364.9	3364.9	3364.9	3364.9	3364.9	3364.9	3364.9	3364.9	3364.9
2.5°	3930.1	3962.1	3978.1	3983.4	3860.8	3807.5	3754.1	3631.5	3604.8	3535.5	3444.8
5°	4623.3	4666.0	4655.3	4634.0	4484.7	4314.1	4175.4	3946.1	3908.8	3743.5	3540.8
7.5°	5305.9	5343.2	5332.6	5252.6	5087.3	4847.3	4618.0	4282.1	4228.7	3962.1	3636.8
10°	5876.5	5908.5	5903.2	5823.2	5625.9	5332.6	5055.3	4607.4	4543.4	4164.7	3716.8
12.5°	6345.8	6388.4	6383.1	6329.8	6153.8	5833.8	5519.2	4980.6	4900.6	4410.0	3828.8
15°	6713.7	6767.0	6767.0	6745.7	6623.1	6356.4	5999.2	5391.2	5295.3	4692.7	3967.4
17.5°	6937.7	6980.3	7017.7	7055.0	6969.7	6767.0	6441.8	5801.8	5700.5	4970.0	4111.4
20°	7055.0	7097.7	7124.3	7204.3	7220.3	7119.0	6863.0	6207.1	6100.5	5284.6	4276.7
22.5°	7247.0	7284.3	7289.6	7359.0	7391.0	7417.6	7257.6	6607.1	6521.7	5631.2	4463.4
25°	7566.9	7609.6	7593.6	7625.6	7630.9	7662.9	7646.9	7065.7	6980.3	6025.8	4687.3
27.5°	7977.5	8030.9	8020.2	7988.2	7940.2	7913.6	7982.9	7529.6	7449.6	6420.4	4916.6
30°	8420.1	8484.1	8468.1	8404.1	8276.2	8164.2	8260.2	7966.9	7892.2	6825.7	5172.6
32.5°	8868.1	8942.7	8937.4	8830.8	8612.1	8420.1	8564.1	8377.5	8324.2	7263.0	5449.9
35°	9161.4	9257.4	9246.7	9182.7	8900.1	8734.8	8910.7	8798.8	8761.4	7796.2	5849.8
37.5°	9636.0	9737.3	9646.6	9486.7	9161.4	9076.1	9289.4	9273.4	9246.7	8361.5	6271.1
40°	10787.8	10937.1	10697.2	10041.3	9508.0	9433.3	9737.3	9801.3	9774.6	8921.4	6649.7
42.5°	11993.0	12216.9	11843.7	10937.1	10137.2	9865.3	10227.9	10318.5	10286.6	9401.3	6991.0
45°	12723.5	12819.5	12446.2	11742.3	11251.7	10387.9	10750.5	10899.8	10873.1	9977.3	7428.3
47.5°	13320.8	13283.5	12856.9	12382.3	12472.9	11123.8	11342.4	11635.7	11614.4	10611.8	7908.2
50°	13448.8	13363.5	13192.8	12894.2	13134.1	11870.3	11966.3	12472.9	12451.6	11315.7	8393.5
52.5°	12547.6	12435.6	12899.5	13150.1	13070.2	12414.3	12654.2	13390.1	13379.4	12078.3	8857.4
55°	10297.2	10206.6	11454.4	12750.2	13000.8	12798.2	13416.8	14344.6	14403.3	12888.9	9278.7
57.5°	8100.2	8004.2	9230.7	11747.7	12744.9	13150.1	14307.3	15437.8	15512.5	13768.7	9678.6
60°	6457.8	6313.8	7252.3	10169.2	12264.9	13422.1	15165.9	16637.7	16648.3	14573.9	9923.9
62.5°	4388.7	4228.7	5268.6	8169.5	11459.7	13464.8	15827.1	17672.2	17714.8	15176.5	9966.6
65°	2666.3	2533.0	3236.9	5967.2	10270.6	13102.2	15837.8	18434.7	18472.1	15453.8	9710.6
67.5°	1546.4	1493.1	1850.4	3716.8	8297.5	12126.3	15171.2	18317.4	18386.7	15336.5	9129.4
70°	901.2	895.9	1029.2	1839.7	5855.2	10190.6	13683.4	17330.9	17432.2	14723.3	8238.8
72.5°	661.2	671.9	725.2	986.5	3391.5	7337.6	11587.7	15347.2	15501.8	13523.4	6969.7
75°	522.6	527.9	575.9	671.9	1781.1	4148.7	8681.4	12318.3	12440.9	11385.1	5444.6
77.5°	389.3	399.9	437.3	474.6	826.6	1903.7	4884.6	7588.3	7385.6	6249.8	2629.0
80°	282.6	309.3	325.3	341.3	437.3	735.9	1466.5	2645.0	2623.6	2730.3	1242.5
82.5°	181.3	202.6	218.6	229.3	261.3	352.0	437.3	591.9	639.9	1061.2	495.9
85°	80.0	90.7	101.3	122.6	112.0	122.6	181.3	117.3	101.3	160.0	90.7
87.5°	0.0	0.0	16.0	26.7	21.3	10.7	32.0	21.3	16.0	16.0	16.0
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°	3364.9	3364.9	3364.9	3364.9	3364.9	3364.9	3364.9	3364.9	3364.9	3364.9	3364.9
2.5°	3396.9	3338.2	3215.5	3098.2	3028.9	2938.3	2858.3	2783.6	2778.3	2756.9	2719.6
5°	3439.5	3327.5	3098.2	2879.6	2714.3	2538.3	2389.0	2271.7	2229.0	2197.0	2154.4
7.5°	3482.2	3306.2	2964.9	2645.0	2383.7	2138.4	1962.4	1802.4	1754.4	1711.8	1685.1
10°	3498.2	3268.9	2810.3	2383.7	2042.4	1781.1	1594.4	1477.1	1434.5	1413.1	1397.1
12.5°	3546.2	3247.5	2666.3	2138.4	1743.8	1503.8	1370.5	1301.2	1285.2	1269.2	1253.2
15°	3610.2	3247.5	2522.3	1898.4	1509.1	1317.1	1237.2	1189.2	1178.5	1173.2	1162.5
17.5°	3679.5	3247.5	2383.7	1695.8	1338.5	1194.5	1135.8	1109.2	1103.8	1098.5	1093.2
20°	3775.5	3252.9	2234.4	1519.8	1215.8	1103.8	1055.9	1023.9	1018.5	1013.2	1013.2
22.5°	3871.5	3263.5	2090.4	1386.5	1135.8	1034.5	975.9	943.9	933.2	933.2	933.2
25°	3994.1	3295.5	1957.1	1274.5	1066.5	970.5	895.9	869.2	863.9	863.9	858.5
27.5°	4138.1	3332.9	1839.7	1189.2	997.2	895.9	821.2	794.6	783.9	783.9	778.6
30°	4292.7	3370.2	1743.8	1125.2	927.9	821.2	751.9	719.9	709.2	714.6	709.2
32.5°	4463.4	3423.5	1669.1	1082.5	863.9	757.2	693.2	655.9	650.6	650.6	645.2
35°	4751.3	3572.8	1658.4	1061.2	810.6	709.2	645.2	607.9	602.6	602.6	597.2
37.5°	5060.6	3743.5	1706.4	1050.5	767.9	666.6	607.9	570.6	565.3	565.3	565.3
40°	5321.9	3871.5	1759.8	1050.5	741.2	629.2	575.9	543.9	543.9	543.9	543.9
42.5°	5497.9	3882.1	1749.1	1050.5	719.9	602.6	554.6	522.6	522.6	527.9	522.6
45°	5759.2	3935.4	1706.4	1034.5	703.9	581.3	533.3	506.6	501.3	506.6	506.6
47.5°	6068.5	4031.4	1663.8	970.5	698.6	559.9	517.3	485.3	479.9	485.3	479.9
50°	6361.8	4116.8	1642.4	885.2	687.9	538.6	495.9	463.9	458.6	463.9	458.6
52.5°	6607.1	4154.1	1605.1	826.6	661.2	517.3	474.6	442.6	431.9	437.3	437.3
55°	6804.4	4143.4	1551.8	778.6	613.2	495.9	447.9	421.3	405.3	405.3	399.9
57.5°	6985.7	4148.7	1503.8	730.6	559.9	463.9	426.6	394.6	373.3	367.9	362.6
60°	7055.0	4122.1	1418.5	666.6	506.6	437.3	399.9	362.6	341.3	336.0	330.6
62.5°	6959.0	4026.1	1306.5	554.6	458.6	405.3	373.3	336.0	314.6	309.3	304.0
65°	6687.1	3844.8	1135.8	437.3	415.9	367.9	341.3	314.6	288.0	277.3	272.0
67.5°	6223.1	3583.5	922.5	352.0	367.9	336.0	320.0	288.0	256.0	245.3	240.0
70°	5561.9	3236.9	693.2	298.6	325.3	298.6	288.0	256.0	229.3	218.6	213.3
72.5°	4634.0	2677.0	485.3	256.0	282.6	261.3	250.6	229.3	202.6	186.6	186.6
75°	3503.5	1919.7	320.0	218.6	234.6	224.0	208.0	192.0	176.0	165.3	160.0
77.5°	1509.1	746.6	197.3	165.3	192.0	186.6	165.3	154.6	149.3	138.6	138.6
80°	650.6	304.0	122.6	122.6	138.6	133.3	128.0	117.3	117.3	112.0	106.7
82.5°	240.0	122.6	74.7	90.7	101.3	90.7	90.7	90.7	90.7	85.3	85.3
85°	58.7	37.3	37.3	53.3	58.7	53.3	58.7	53.3	53.3	53.3	48.0
87.5°	16.0	16.0	21.3	21.3	21.3	21.3	21.3	16.0	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)