

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: P841844

Luminaire Tested: **ARCH4-230-750-U-T4W-HSS**

Issue Date: 5/27/2024

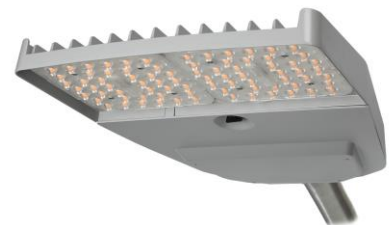
Test Information

Test Method: LM-79-08
Report Number: P841844
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: ARCH4-230-750-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 905mA 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: 25158 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

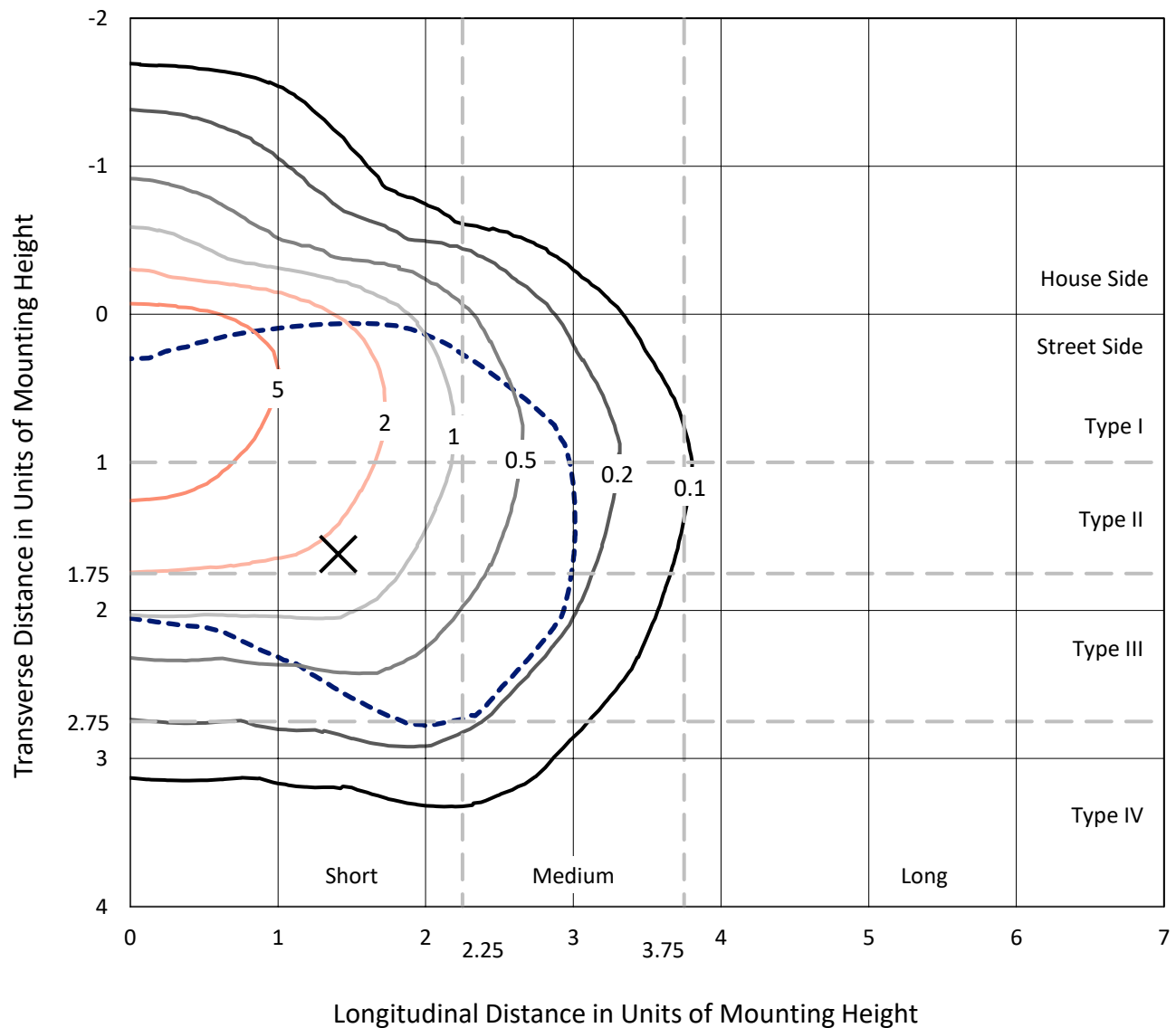


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Iso-Footcandle Lines of Horizontal Illumination

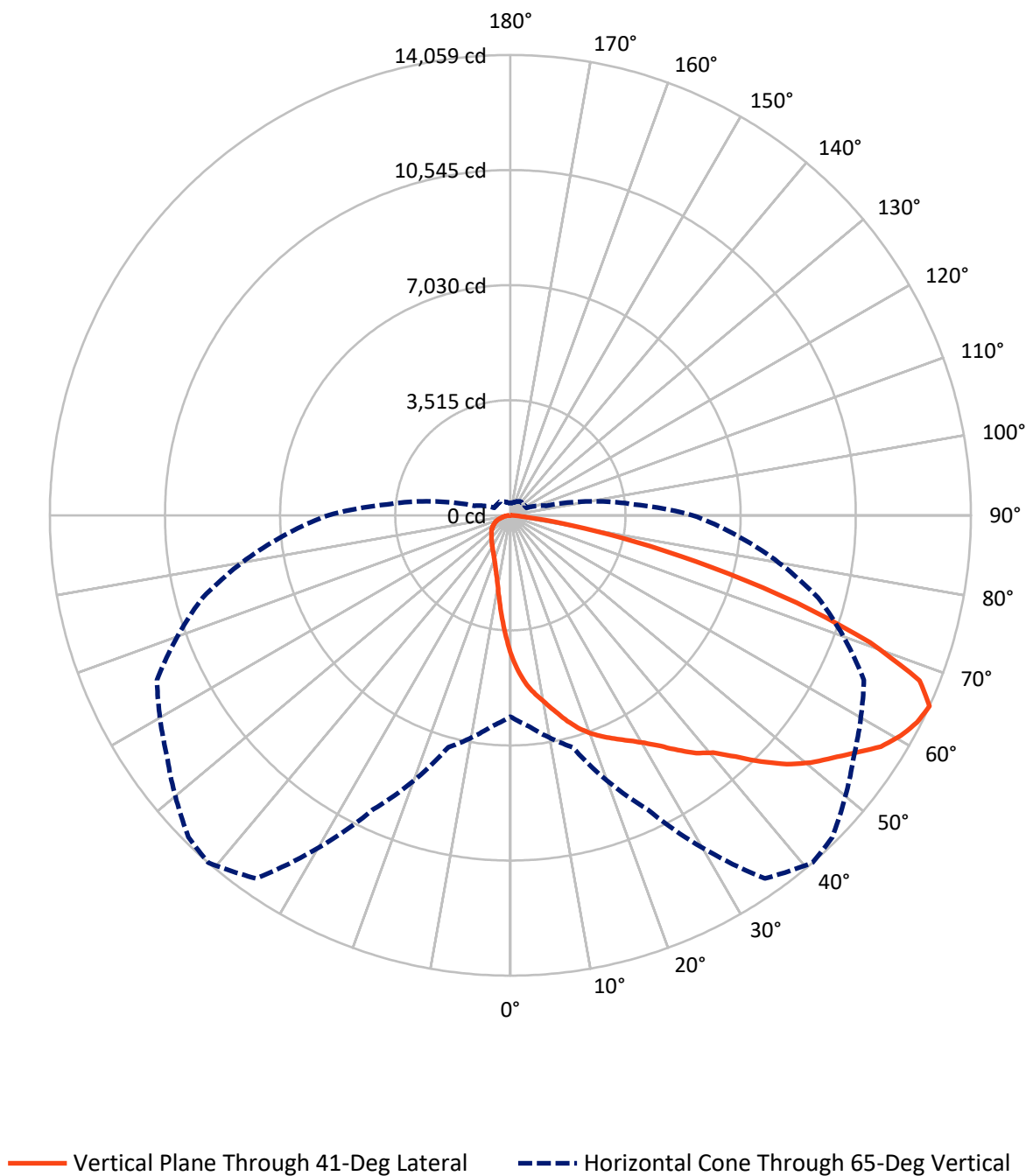
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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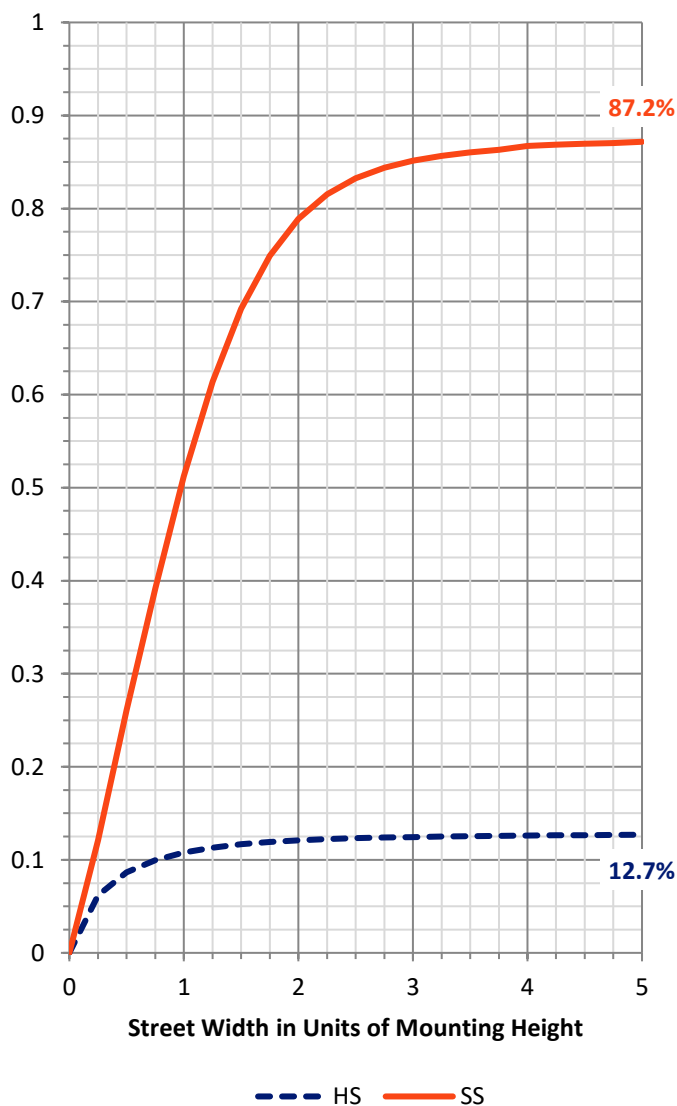
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3229.9	0.0	3229.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	21928.1	0.0	21928.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	25158.0	0.0	25158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.4	1.6
10°-20°	1197.7	4.8
20°-30°	2060.4	8.2
30°-40°	3125.0	12.4
40°-50°	4578.2	18.2
50°-60°	5781.2	23.0
60°-70°	5421.0	21.5
70°-80°	2416.1	9.6
80°-90°	179.0	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°	25158.0	100.0
0°-180°	25158.0	100.0

Coefficient of Utilization



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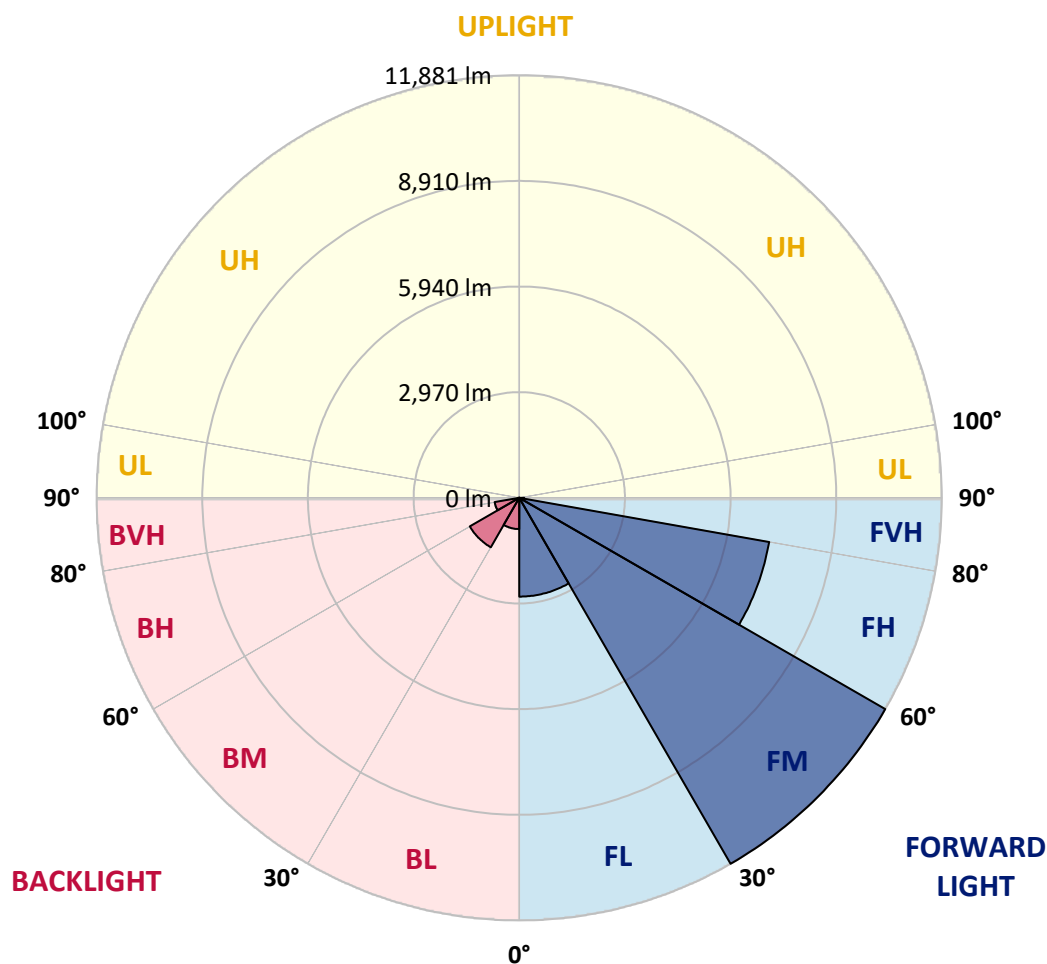
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2778.4	11.0			
FM	(30°-60°)	11880.6	47.2			
FH	(60°-80°)	7135.5	28.4			G3/7500
FVH	(80°-90°)	133.7	0.5			G2/225
BL	(0°-30°)	879.1	3.5	B2/1000		
BM	(30°-60°)	1603.8	6.4	B2/2500		
BH	(60°-80°)	701.6	2.8	B2/1000		G2/1000
BVH	(80°-90°)	45.3	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	4286.8	4286.8	4286.8	4286.8	4286.8	4286.8	4286.8	4286.8	4286.8	4286.8	4286.8
2.5°	4944.7	4928.7	4918.1	4859.8	4859.8	4780.2	4785.5	4711.2	4621.0	4477.8	4323.9
5°	5411.5	5390.3	5363.8	5305.4	5284.2	5204.6	5194.0	5087.9	4934.1	4684.7	4408.8
7.5°	5820.1	5798.8	5761.7	5676.8	5618.5	5523.0	5496.4	5358.5	5188.7	4881.0	4493.7
10°	6191.4	6175.5	6127.8	6021.7	5942.1	5825.4	5777.6	5591.9	5379.7	5040.2	4562.7
12.5°	6568.1	6546.9	6483.2	6393.0	6297.6	6159.6	6101.3	5862.5	5591.9	5215.2	4663.5
15°	6918.3	6886.5	6838.7	6743.2	6658.3	6525.7	6462.0	6180.8	5851.9	5411.5	4796.1
17.5°	7146.4	7119.9	7077.5	7024.4	6955.4	6854.6	6791.0	6515.1	6111.9	5602.5	4934.1
20°	7284.4	7273.8	7257.8	7226.0	7194.2	7125.2	7077.5	6817.5	6393.0	5788.2	5066.7
22.5°	7390.5	7379.9	7374.6	7374.6	7379.9	7353.3	7321.5	7098.7	6663.6	5984.5	5188.7
25°	7554.9	7549.6	7539.0	7528.4	7565.6	7570.9	7560.2	7406.4	7003.2	6244.5	5342.6
27.5°	7783.1	7767.2	7745.9	7735.3	7772.5	7799.0	7820.2	7714.1	7363.9	6509.8	5517.7
30°	8133.2	8085.5	8032.4	7995.3	8021.8	8064.3	8112.0	8048.3	7735.3	6838.7	5698.0
32.5°	8547.1	8488.7	8366.7	8297.7	8366.7	8398.5	8435.6	8403.8	8122.6	7194.2	5878.4
35°	9051.1	8982.1	8854.8	8754.0	8876.0	8807.0	8791.1	8759.3	8488.7	7544.3	6080.0
37.5°	9889.3	9788.5	9586.9	9364.1	9364.1	9215.5	9157.2	9061.7	8817.6	7857.3	6276.3
40°	10860.2	10727.6	10467.6	10138.7	9836.3	9528.6	9491.4	9422.5	9204.9	8218.1	6499.2
42.5°	11926.6	11672.0	11311.2	10913.3	10425.2	10075.0	9990.1	9793.8	9581.6	8584.2	6722.0
45°	13109.7	12579.2	12053.9	11852.3	11045.9	10727.6	10568.4	10213.0	9974.2	8966.2	6955.4
47.5°	13300.7	12886.9	12536.7	12504.9	11624.2	11358.9	11178.6	10669.2	10398.7	9374.7	7199.5
50°	13194.6	12945.3	12982.4	12855.1	12048.6	11873.6	11735.6	11157.3	10817.8	9767.3	7422.3
52.5°	12749.0	12886.9	13099.1	12865.7	12451.9	12308.6	12239.6	11682.6	11210.4	10128.1	7623.9
55°	12218.4	12313.9	12770.2	13056.7	12918.7	12791.4	12727.7	12292.7	11597.7	10430.5	7809.6
57.5°	11443.8	11401.4	11905.4	13024.8	13406.8	13332.6	13263.6	12892.2	11958.5	10648.0	7926.3
60°	10281.9	10191.7	10828.4	12388.2	13566.0	13682.7	13650.9	13290.1	12234.3	10642.7	7878.6
62.5°	8271.2	8494.0	9374.7	11348.3	13635.0	13932.1	13873.7	13321.9	12324.5	10335.0	7576.2
65°	6149.0	6467.3	7332.1	9915.9	13539.5	14059.4	13900.2	12802.0	11905.4	9724.9	6913.0
67.5°	4430.0	4711.2	5342.6	8159.8	12621.6	13475.8	13290.1	11953.1	10939.8	8860.1	5995.1
70°	3029.4	3231.0	3660.8	5942.1	10775.3	11650.7	11534.0	10685.1	9417.1	7830.8	4870.4
72.5°	2138.1	2223.0	2498.9	3920.7	8186.3	9141.3	9003.3	8791.1	7565.6	6509.8	3788.1
75°	1602.2	1655.3	1803.8	2536.0	5523.0	6334.7	6207.4	6329.4	5650.3	4928.7	2758.8
77.5°	604.8	657.9	1023.9	1618.2	3268.1	3888.9	3761.6	3835.8	3140.8	2488.2	1374.1
80°	164.5	175.1	339.5	769.3	1485.5	1936.5	1761.4	1512.0	1167.2	1146.0	726.8
82.5°	69.0	79.6	153.9	413.8	530.5	530.5	445.7	551.8	445.7	535.8	350.2
85°	26.5	31.8	37.1	106.1	69.0	74.3	79.6	106.1	90.2	111.4	79.6
87.5°	0.0	0.0	0.0	5.3	5.3	10.6	5.3	10.6	15.9	15.9	15.9
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°	4286.8	4286.8	4286.8	4286.8	4286.8	4286.8	4286.8	4286.8	4286.8	4286.8	4286.8
2.5°	4260.3	4201.9	4117.0	3979.1	3835.8	3756.2	3655.4	3639.5	3533.4	3522.8	3480.4
5°	4286.8	4164.8	3947.2	3682.0	3422.0	3220.4	3071.8	2992.3	2838.4	2838.4	2796.0
7.5°	4308.0	4117.0	3766.9	3374.3	3018.8	2748.2	2546.6	2461.7	2323.8	2313.2	2281.3
10°	4313.3	4058.7	3570.6	3061.2	2626.2	2350.3	2154.0	2058.5	1936.5	1925.9	1904.7
12.5°	4355.8	4026.8	3395.5	2790.7	2345.0	2047.9	1856.9	1777.3	1681.8	1671.2	1650.0
15°	4424.7	4026.8	3246.9	2562.5	2095.6	1819.8	1655.3	1581.0	1512.0	1501.4	1490.8
17.5°	4493.7	4016.2	3098.4	2350.3	1888.7	1639.4	1496.1	1437.8	1384.7	1379.4	1368.8
20°	4557.4	4010.9	2949.8	2169.9	1729.6	1490.8	1379.4	1326.4	1283.9	1283.9	1278.6
22.5°	4621.0	4000.3	2806.6	2000.1	1591.6	1379.4	1283.9	1225.6	1193.7	1193.7	1188.4
25°	4716.5	4000.3	2673.9	1856.9	1480.2	1294.5	1199.0	1156.6	1130.1	1124.8	1124.8
27.5°	4827.9	4032.1	2557.2	1729.6	1384.7	1209.6	1135.4	1092.9	1061.1	1050.5	1055.8
30°	4950.0	4058.7	2451.1	1618.2	1294.5	1146.0	1066.4	1023.9	992.1	981.5	986.8
32.5°	5072.0	4090.5	2355.6	1517.4	1204.3	1087.6	1008.0	960.3	928.5	923.1	923.1
35°	5204.6	4122.3	2260.1	1432.5	1130.1	1029.3	955.0	901.9	880.7	870.1	875.4
37.5°	5337.3	4175.4	2169.9	1352.9	1077.0	976.2	907.2	854.2	838.3	833.0	833.0
40°	5496.4	4255.0	2132.8	1299.8	1029.3	928.5	870.1	817.0	801.1	801.1	801.1
42.5°	5629.1	4318.6	2101.0	1241.5	992.1	886.0	833.0	790.5	779.9	774.6	779.9
45°	5761.7	4377.0	2058.5	1188.4	944.4	843.6	801.1	758.7	748.1	748.1	748.1
47.5°	5894.3	4408.8	2000.1	1135.4	901.9	806.4	769.3	732.2	721.5	721.5	721.5
50°	6000.4	4435.3	1915.3	1077.0	854.2	774.6	737.5	700.3	689.7	689.7	689.7
52.5°	6106.6	4440.6	1825.1	1008.0	806.4	737.5	705.6	668.5	657.9	652.6	652.6
55°	6202.1	4435.3	1719.0	928.5	753.4	695.0	668.5	636.7	615.4	594.2	604.8
57.5°	6271.0	4430.0	1596.9	848.9	700.3	652.6	642.0	599.5	557.1	504.0	514.6
60°	6244.5	4371.7	1464.3	748.1	642.0	610.1	610.1	551.8	477.5	451.0	456.3
62.5°	6074.7	4207.2	1326.4	642.0	583.6	567.7	562.4	498.7	440.4	413.8	419.1
65°	5565.4	3793.4	1124.8	546.5	525.2	519.9	519.9	461.6	408.5	376.7	382.0
67.5°	4790.8	3183.3	917.8	461.6	466.9	477.5	477.5	424.4	371.4	339.5	344.9
70°	3841.1	2488.2	732.2	397.9	403.2	419.1	429.7	382.0	334.2	302.4	302.4
72.5°	2891.5	1888.7	588.9	334.2	360.8	360.8	376.7	339.5	291.8	260.0	265.3
75°	2095.6	1352.9	466.9	281.2	313.0	307.7	307.7	286.5	249.4	228.1	228.1
77.5°	992.1	710.9	371.4	201.6	244.1	238.7	244.1	228.1	212.2	191.0	196.3
80°	488.1	350.2	238.7	143.2	169.8	175.1	191.0	180.4	175.1	159.2	159.2
82.5°	233.4	137.9	111.4	100.8	116.7	122.0	132.6	132.6	137.9	127.3	127.3
85°	63.7	37.1	47.7	63.7	74.3	79.6	90.2	95.5	95.5	90.2	95.5
87.5°	15.9	15.9	21.2	31.8	37.1	42.4	47.7	47.7	21.2	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)