

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: P841601

Luminaire Tested: **ARCH4-200-730-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841601
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: ARCH4-200-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

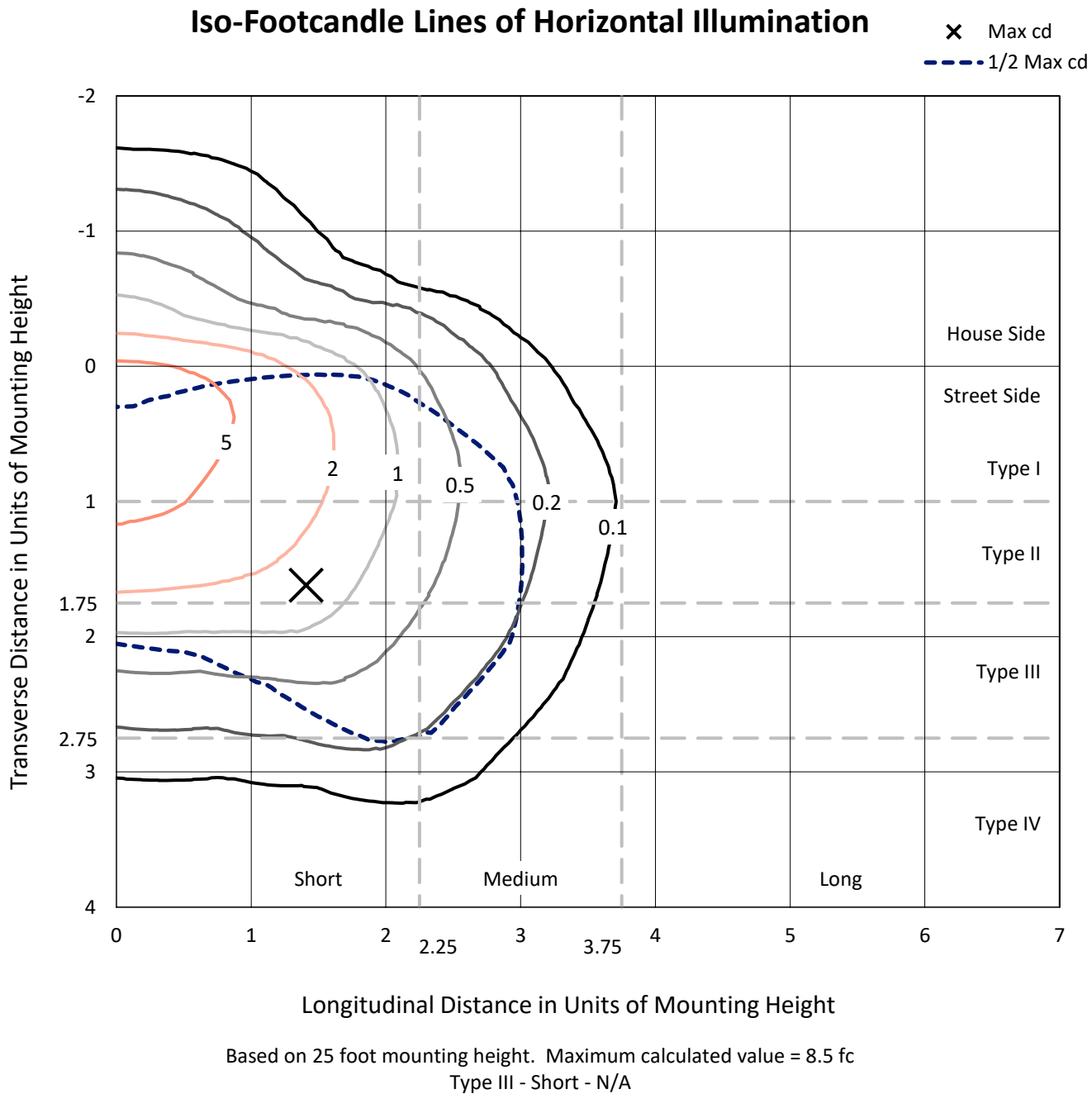
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21609 lumens
Efficiency: N/A
Efficacy: 106.1 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): 203.7
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

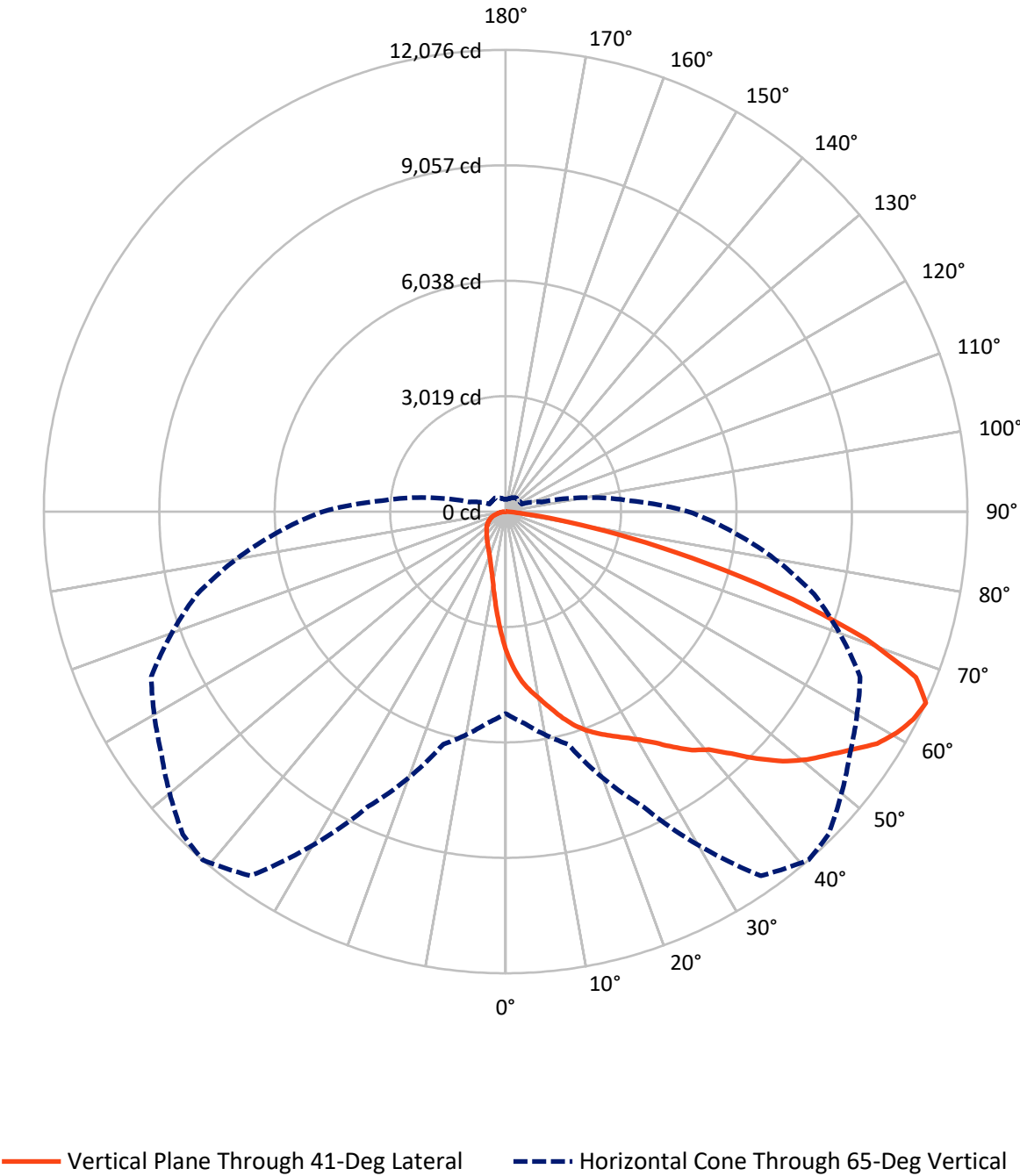


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Luminous Intensity Polar Plot



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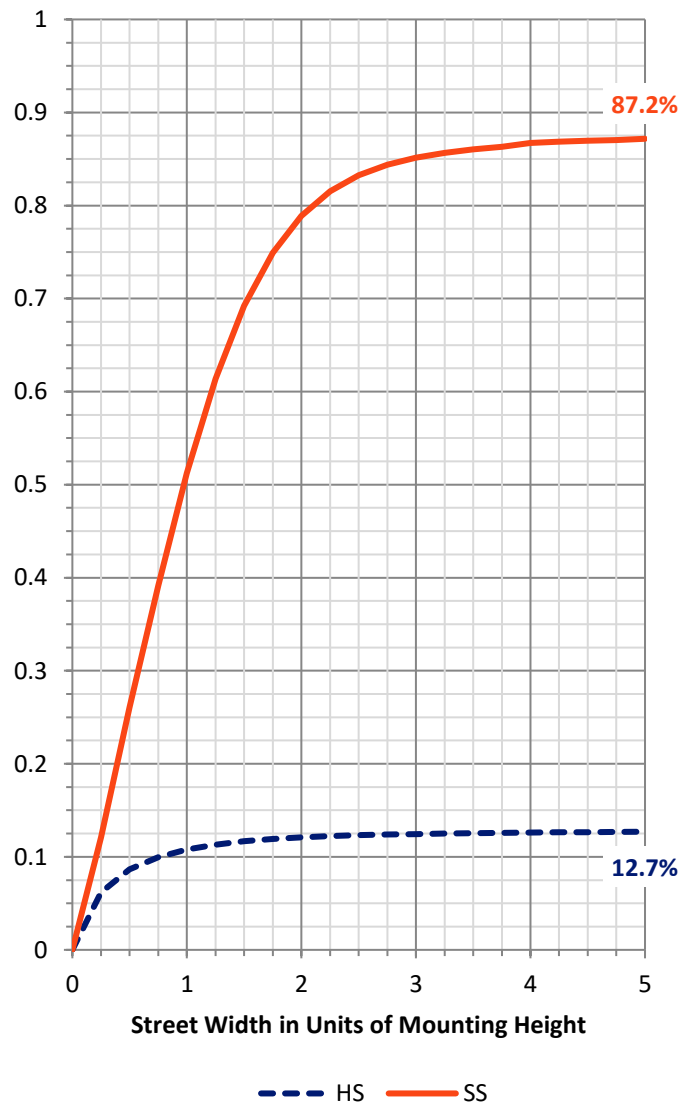
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2774.3	0.0	2774.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	18834.7	0.0	18834.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	21609.0	0.0	21609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.1	1.6
10°-20°	1028.7	4.8
20°-30°	1769.8	8.2
30°-40°	2684.1	12.4
40°-50°	3932.3	18.2
50°-60°	4965.7	23.0
60°-70°	4656.2	21.5
70°-80°	2075.3	9.6
80°-90°	153.7	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°	21609.0	100.0
0°-180°	21609.0	100.0

Coefficient of Utilization



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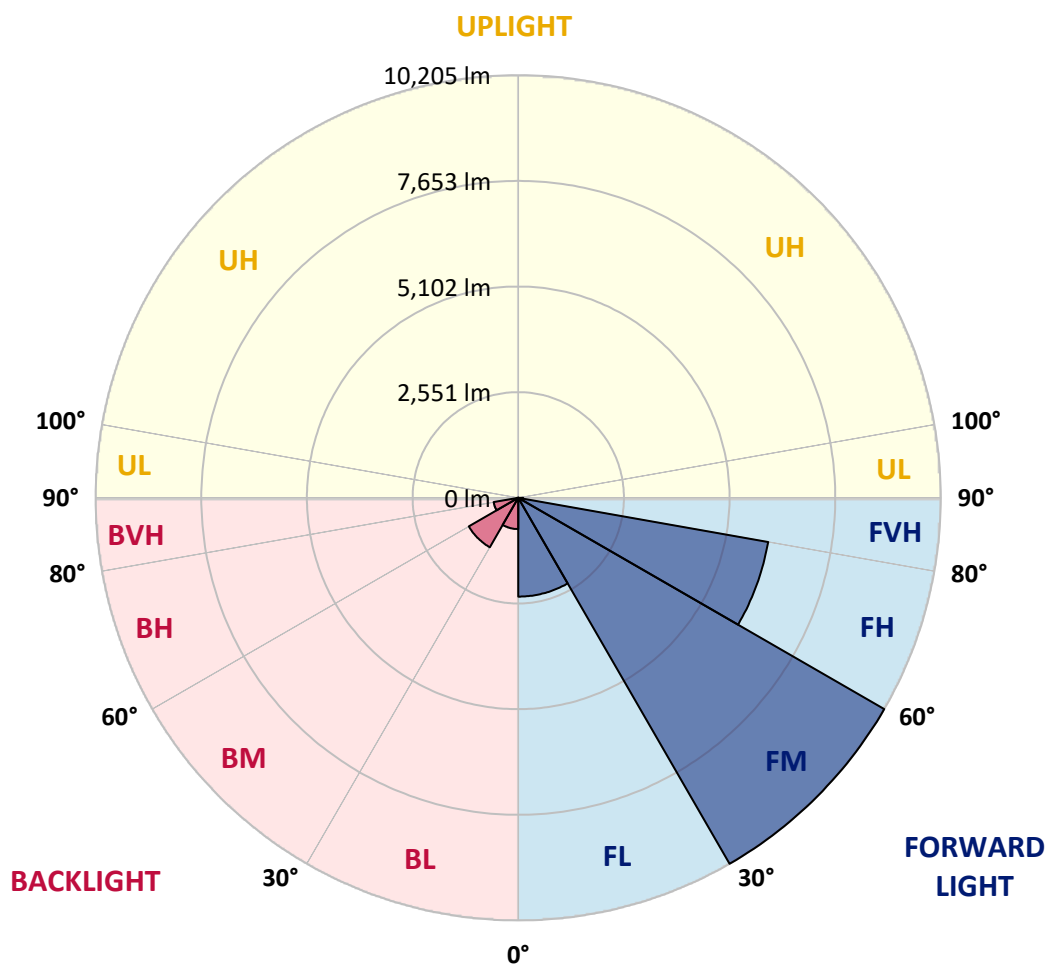
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2386.4	11.0			
FM	(30°-60°)	10204.6	47.2			
FH	(60°-80°)	6128.9	28.4			G3/7500
FVH	(80°-90°)	114.8	0.5			G2/225
BL	(0°-30°)	755.1	3.5	B2/1000		
BM	(30°-60°)	1377.6	6.4	B2/2500		
BH	(60°-80°)	602.7	2.8	B2/1000		G2/1000
BVH	(80°-90°)	38.9	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3682.1	3682.1	3682.1	3682.1	3682.1	3682.1	3682.1	3682.1	3682.1	3682.1	3682.1
2.5°	4247.1	4233.5	4224.3	4174.2	4174.2	4105.9	4110.4	4046.6	3969.2	3846.1	3714.0
5°	4648.1	4629.9	4607.1	4557.0	4538.8	4470.4	4461.3	4370.2	4238.0	4023.8	3786.9
7.5°	4999.0	4980.8	4948.9	4876.0	4825.9	4743.8	4721.1	4602.6	4456.8	4192.4	3859.8
10°	5318.0	5304.4	5263.3	5172.2	5103.8	5003.6	4962.6	4803.1	4620.8	4329.2	3919.0
12.5°	5641.6	5623.3	5568.7	5491.2	5409.2	5290.7	5240.6	5035.5	4803.1	4479.5	4005.6
15°	5942.3	5915.0	5874.0	5792.0	5719.0	5605.1	5550.4	5308.9	5026.4	4648.1	4119.5
17.5°	6138.3	6115.5	6079.0	6033.5	5974.2	5887.7	5833.0	5596.0	5249.7	4812.2	4238.0
20°	6256.8	6247.7	6234.0	6206.6	6179.3	6120.1	6079.0	5855.8	5491.2	4971.7	4351.9
22.5°	6347.9	6338.8	6334.2	6334.2	6338.8	6316.0	6288.7	6097.3	5723.6	5140.3	4456.8
25°	6489.2	6484.6	6475.5	6466.4	6498.3	6502.8	6493.7	6361.6	6015.2	5363.6	4588.9
27.5°	6685.1	6671.5	6653.2	6644.1	6676.0	6698.8	6717.0	6625.9	6325.1	5591.4	4739.3
30°	6985.9	6944.9	6899.3	6867.4	6890.2	6926.6	6967.7	6913.0	6644.1	5874.0	4894.2
32.5°	7341.3	7291.2	7186.4	7127.2	7186.4	7213.7	7245.6	7218.3	6976.8	6179.3	5049.2
35°	7774.3	7715.0	7605.6	7519.1	7623.9	7564.6	7551.0	7523.6	7291.2	6480.1	5222.3
37.5°	8494.3	8407.7	8234.5	8043.1	8043.1	7915.5	7865.4	7783.4	7573.7	6748.9	5390.9
40°	9328.2	9214.3	8991.0	8708.4	8448.7	8184.4	8152.5	8093.2	7906.4	7058.8	5582.3
42.5°	10244.1	10025.4	9715.5	9373.8	8954.5	8653.8	8580.8	8412.2	8230.0	7373.2	5773.7
45°	11260.4	10804.7	10353.5	10180.4	9487.7	9214.3	9077.6	8772.2	8567.2	7701.3	5974.2
47.5°	11424.4	11069.0	10768.2	10740.9	9984.4	9756.5	9601.6	9164.1	8931.7	8052.2	6183.9
50°	11333.3	11119.1	11151.0	11041.6	10349.0	10198.6	10080.1	9583.4	9291.7	8389.4	6375.3
52.5°	10950.5	11069.0	11251.2	11050.7	10695.3	10572.3	10513.0	10034.5	9629.0	8699.3	6548.4
55°	10494.8	10576.8	10968.7	11214.8	11096.3	10986.9	10932.3	10558.6	9961.6	8959.1	6707.9
57.5°	9829.5	9793.0	10225.9	11187.4	11515.6	11451.8	11392.5	11073.5	10271.5	9145.9	6808.2
60°	8831.5	8754.0	9300.8	10640.6	11652.3	11752.5	11725.2	11415.3	10508.5	9141.4	6767.2
62.5°	7104.4	7295.8	8052.2	9747.4	11711.5	11966.7	11916.6	11442.6	10585.9	8877.0	6507.4
65°	5281.6	5555.0	6297.8	8517.0	11629.5	12076.1	11939.4	10996.1	10225.9	8353.0	5937.8
67.5°	3805.1	4046.6	4588.9	7008.7	10841.1	11574.8	11415.3	10266.9	9396.5	7610.2	5149.4
70°	2602.1	2775.2	3144.3	5103.8	9255.3	10007.2	9906.9	9177.8	8088.7	6726.1	4183.3
72.5°	1836.5	1909.4	2146.3	3367.6	7031.5	7851.7	7733.2	7551.0	6498.3	5591.4	3253.7
75°	1376.2	1421.8	1549.4	2178.2	4743.8	5441.1	5331.7	5436.5	4853.2	4233.5	2369.6
77.5°	519.5	565.1	879.5	1389.9	2807.1	3340.3	3230.9	3294.7	2697.7	2137.2	1180.3
80°	141.3	150.4	291.6	660.8	1276.0	1663.3	1512.9	1298.7	1002.5	984.3	624.3
82.5°	59.2	68.4	132.2	355.4	455.7	455.7	382.8	473.9	382.8	460.3	300.8
85°	22.8	27.3	31.9	91.1	59.2	63.8	68.4	91.1	77.5	95.7	68.4
87.5°	0.0	0.0	0.0	4.6	4.6	9.1	4.6	9.1	13.7	13.7	13.7
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°	3682.1	3682.1	3682.1	3682.1	3682.1	3682.1	3682.1	3682.1	3682.1	3682.1	3682.1
2.5°	3659.3	3609.1	3536.2	3417.8	3294.7	3226.4	3139.8	3126.1	3035.0	3025.9	2989.4
5°	3682.1	3577.2	3390.4	3162.6	2939.3	2766.1	2638.5	2570.2	2438.0	2438.0	2401.5
7.5°	3700.3	3536.2	3235.5	2898.3	2592.9	2360.5	2187.4	2114.5	1996.0	1986.9	1959.5
10°	3704.8	3486.1	3066.9	2629.4	2255.7	2018.8	1850.1	1768.1	1663.3	1654.2	1636.0
12.5°	3741.3	3458.8	2916.5	2397.0	2014.2	1759.0	1595.0	1526.6	1444.6	1435.5	1417.2
15°	3800.5	3458.8	2788.9	2201.0	1800.0	1563.1	1421.8	1358.0	1298.7	1289.6	1280.5
17.5°	3859.8	3449.7	2661.3	2018.8	1622.3	1408.1	1285.1	1234.9	1189.4	1184.8	1175.7
20°	3914.5	3445.1	2533.7	1863.8	1485.6	1280.5	1184.8	1139.3	1102.8	1102.8	1098.2
22.5°	3969.2	3436.0	2410.7	1718.0	1367.1	1184.8	1102.8	1052.7	1025.3	1025.3	1020.8
25°	4051.2	3436.0	2296.7	1595.0	1271.4	1111.9	1029.9	993.4	970.6	966.1	966.1
27.5°	4146.9	3463.3	2196.5	1485.6	1189.4	1039.0	975.2	938.7	911.4	902.3	906.8
30°	4251.7	3486.1	2105.3	1389.9	1111.9	984.3	916.0	879.5	852.2	843.0	847.6
32.5°	4356.5	3513.5	2023.3	1303.3	1034.4	934.2	865.8	824.8	797.5	792.9	792.9
35°	4470.4	3540.8	1941.3	1230.4	970.6	884.1	820.3	774.7	756.5	747.3	751.9
37.5°	4584.3	3586.4	1863.8	1162.0	925.1	838.5	779.2	733.7	720.0	715.4	715.4
40°	4721.1	3654.7	1831.9	1116.5	884.1	797.5	747.3	701.8	688.1	688.1	688.1
42.5°	4835.0	3709.4	1804.6	1066.3	852.2	761.0	715.4	679.0	669.9	665.3	669.9
45°	4948.9	3759.5	1768.1	1020.8	811.1	724.6	688.1	651.7	642.5	642.5	642.5
47.5°	5062.8	3786.9	1718.0	975.2	774.7	692.7	660.8	628.9	619.8	619.8	619.8
50°	5154.0	3809.7	1645.1	925.1	733.7	665.3	633.4	601.5	592.4	592.4	592.4
52.5°	5245.1	3814.2	1567.6	865.8	692.7	633.4	606.1	574.2	565.1	560.5	560.5
55°	5327.1	3809.7	1476.5	797.5	647.1	597.0	574.2	546.8	528.6	510.4	519.5
57.5°	5386.4	3805.1	1371.7	729.1	601.5	560.5	551.4	514.9	478.5	432.9	442.0
60°	5363.6	3755.0	1257.7	642.5	551.4	524.1	524.1	473.9	410.1	387.3	391.9
62.5°	5217.8	3613.7	1139.3	551.4	501.3	487.6	483.0	428.4	378.2	355.4	360.0
65°	4780.3	3258.3	966.1	469.4	451.1	446.6	446.6	396.5	350.9	323.5	328.1
67.5°	4115.0	2734.2	788.4	396.5	401.0	410.1	410.1	364.6	319.0	291.6	296.2
70°	3299.3	2137.2	628.9	341.8	346.3	360.0	369.1	328.1	287.1	259.7	259.7
72.5°	2483.6	1622.3	505.8	287.1	309.9	309.9	323.5	291.6	250.6	223.3	227.9
75°	1800.0	1162.0	401.0	241.5	268.9	264.3	264.3	246.1	214.2	196.0	196.0
77.5°	852.2	610.6	319.0	173.2	209.6	205.1	209.6	196.0	182.3	164.1	168.6
80°	419.2	300.8	205.1	123.0	145.8	150.4	164.1	154.9	150.4	136.7	136.7
82.5°	200.5	118.5	95.7	86.6	100.3	104.8	113.9	113.9	118.5	109.4	109.4
85°	54.7	31.9	41.0	54.7	63.8	68.4	77.5	82.0	82.0	77.5	82.0
87.5°	13.7	13.7	18.2	27.3	31.9	36.5	41.0	41.0	18.2	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)