

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: P841956

Luminaire Tested: **ARCH4-250-730-U-T2R**

Issue Date: 5/27/2024

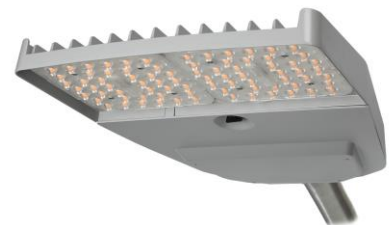
Test Information

Test Method: LM-79-08
Report Number: P841956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-250-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36886 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - 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



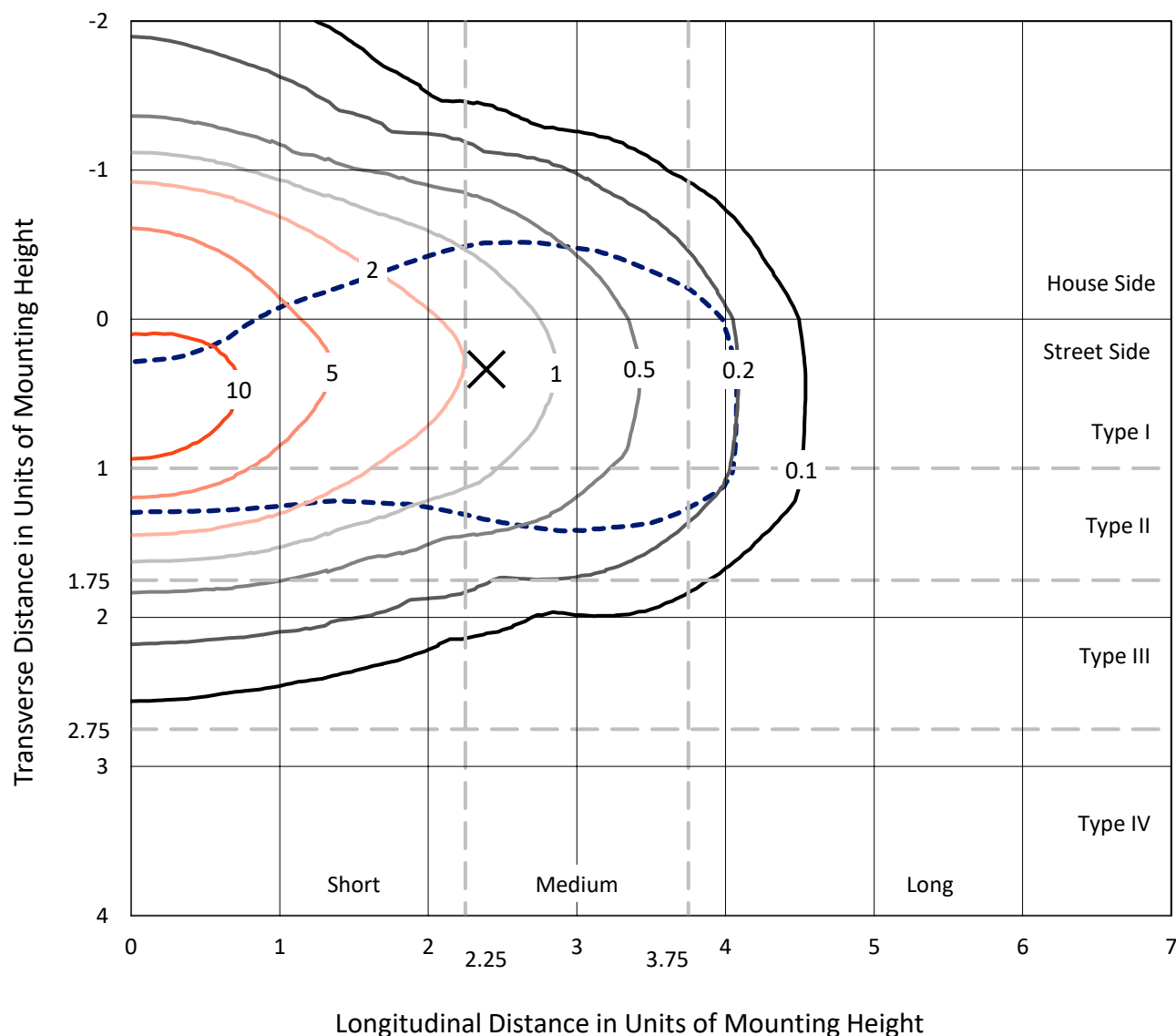
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

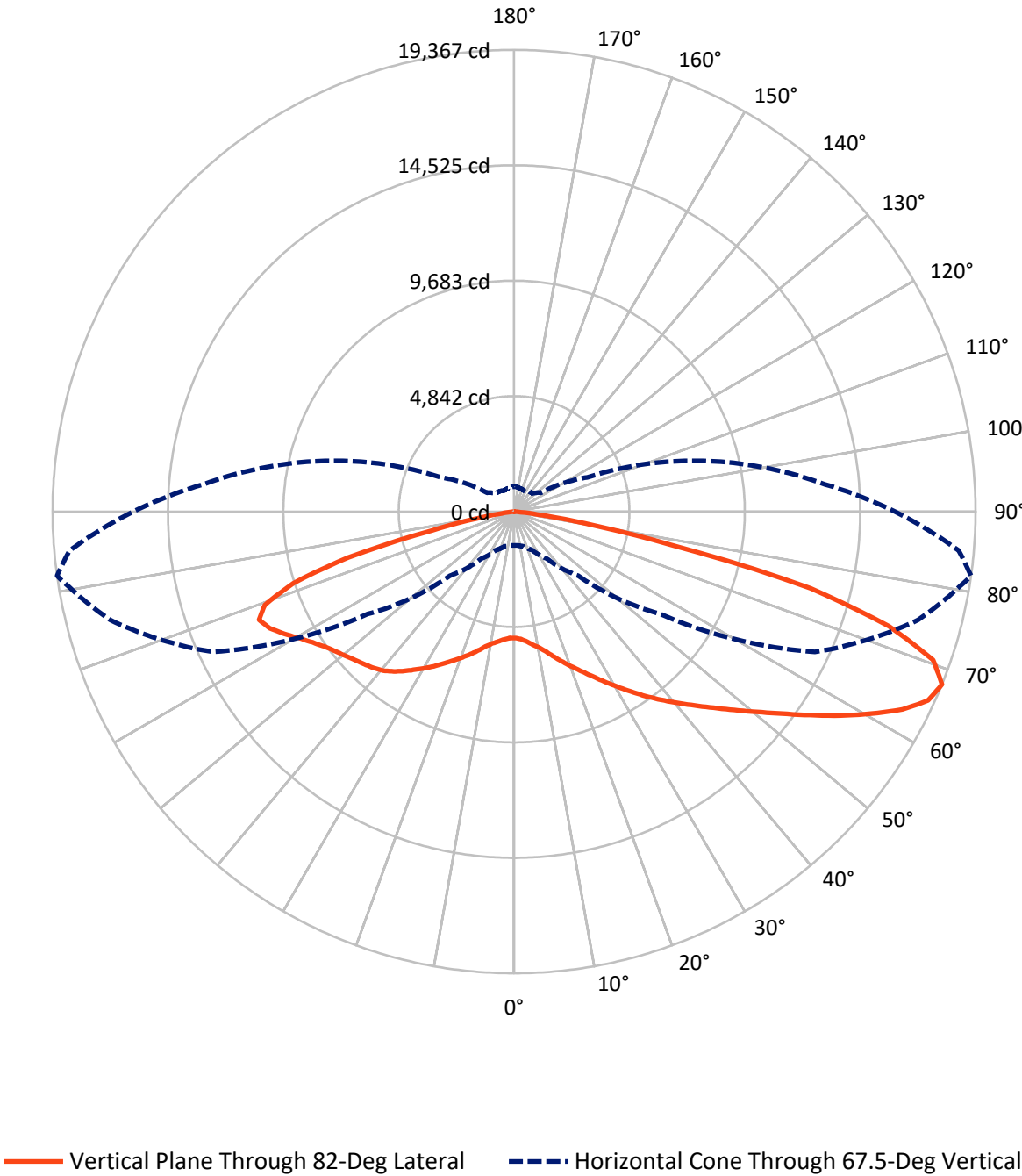
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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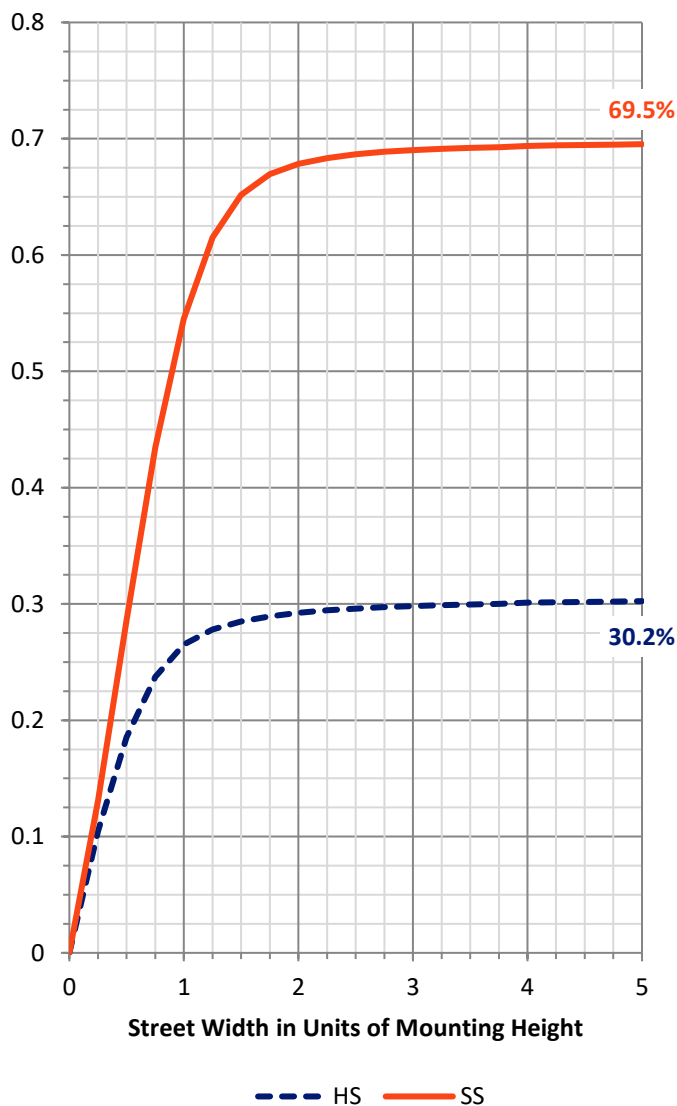
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11233.3	0.0	11233.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	25652.7	0.0	25652.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	36886.0	0.0	36886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.0	1.5
10°-20°	1973.8	5.4
20°-30°	3966.9	10.8
30°-40°	6231.5	16.9
40°-50°	7591.2	20.6
50°-60°	7172.7	19.4
60°-70°	5923.0	16.1
70°-80°	3225.3	8.7
80°-90°	253.6	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°	36886.0	100.0
0°-180°	36886.0	100.0

Coefficient of Utilization



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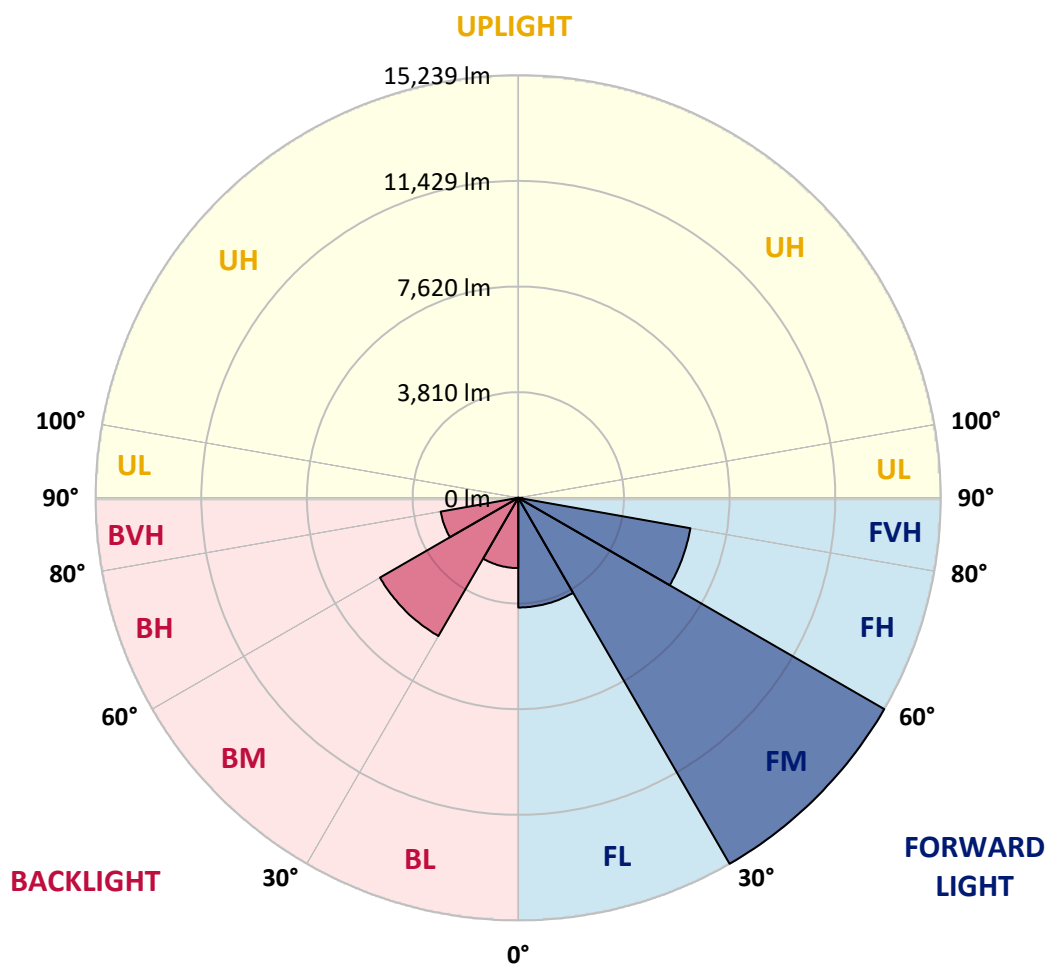
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3955.5	10.7			
FM	(30°-60°)	15239.2	41.3			
FH	(60°-80°)	6305.2	17.1			G3/7500
FVH	(80°-90°)	152.9	0.4			G2/225
BL	(0°-30°)	2533.2	6.9	B4/5000		
BM	(30°-60°)	5756.2	15.6	B4/8500		
BH	(60°-80°)	2843.2	7.7	B4/5000		G4/5000
BVH	(80°-90°)	100.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5302.3	5302.3	5302.3	5302.3	5302.3	5302.3	5302.3	5302.3	5302.3	5302.3	5302.3
2.5°	5543.4	5543.4	5586.2	5586.2	5548.7	5489.8	5473.7	5409.5	5350.5	5350.5	5355.9
5°	6073.6	6068.2	6100.4	6057.5	5966.5	5848.6	5768.3	5629.1	5511.2	5473.7	5468.4
7.5°	6721.7	6716.3	6732.4	6662.7	6491.4	6298.5	6137.9	5912.9	5720.1	5639.8	5618.3
10°	7444.7	7439.3	7423.3	7305.5	7075.1	6775.2	6534.2	6223.6	5934.3	5805.8	5779.0
12.5°	8274.9	8264.2	8226.7	8055.3	7739.3	7353.7	7005.5	6603.8	6218.2	6041.5	5982.5
15°	9201.4	9185.4	9115.7	8906.9	8483.7	7996.4	7546.5	7032.3	6561.0	6330.7	6250.3
17.5°	10176.2	10176.2	10069.1	9758.5	9287.1	8681.9	8124.9	7471.5	6919.8	6636.0	6539.6
20°	11167.1	11161.7	11027.8	10652.9	10095.9	9399.6	8692.6	7974.9	7289.4	6946.6	6828.8
22.5°	12211.5	12200.7	12034.7	11606.2	10942.1	10154.8	9330.0	8473.0	7696.4	7284.0	7134.1
25°	13411.2	13395.1	13191.6	12666.7	11879.4	10990.3	10047.7	9056.8	8162.4	7658.9	7482.2
27.5°	14685.9	14664.5	14423.4	13812.9	12950.6	11879.4	10840.3	9731.7	8676.6	8076.7	7878.5
30°	15821.3	15805.3	15542.8	14916.2	13925.3	12763.1	11595.5	10406.5	9217.5	8521.2	8274.9
32.5°	16678.3	16678.3	16442.6	15826.7	14798.4	13609.3	12356.1	11043.9	9779.9	8997.9	8708.7
35°	17197.8	17213.9	17010.3	16517.6	15548.2	14407.4	13143.4	11793.7	10379.7	9506.7	9196.1
37.5°	17272.8	17326.3	17208.5	16876.4	16067.7	15071.5	13914.6	12516.7	11001.0	10020.9	9672.8
40°	16924.7	16962.1	16967.5	16839.0	16281.9	15548.2	14594.8	13282.6	11659.8	10561.8	10160.1
42.5°	16228.4	16255.2	16303.4	16340.9	16126.6	15757.1	15114.4	13995.0	12361.4	11113.5	10642.2
45°	15328.6	15323.2	15403.6	15564.3	15553.5	15639.2	15403.6	14643.0	13089.8	11740.1	11177.8
47.5°	13984.3	13957.5	14241.3	14605.5	14787.6	15189.3	15408.9	15151.8	13882.5	12431.0	11788.3
50°	11879.4	11852.6	12473.9	13330.8	13866.4	14477.0	15114.4	15457.1	14712.7	13207.7	12452.5
52.5°	9319.3	9292.5	10079.8	11579.5	12747.0	13636.1	14519.9	15526.8	15500.0	14075.3	13202.3
55°	6930.5	6909.1	7675.0	9297.8	11188.5	12661.4	13791.4	15344.7	16239.1	15071.5	14112.8
57.5°	4884.6	4873.9	5538.0	6882.3	9185.4	11472.3	13089.8	14991.2	16919.3	16153.4	15141.1
60°	3427.8	3411.7	3893.7	4932.8	6946.6	9678.1	12393.6	14519.9	17428.1	17219.2	16233.7
62.5°	2308.4	2297.7	2640.5	3508.1	4932.8	7450.1	11338.4	14203.9	17717.3	18290.4	17337.1
65°	1751.4	1746.0	1901.3	2378.0	3492.0	5350.5	9662.0	14166.4	17754.8	19093.8	18274.3
67.5°	1414.0	1419.3	1505.0	1778.2	2415.5	3802.7	7492.9	13930.7	17556.6	19366.9	18729.6
70°	1156.9	1156.9	1194.4	1376.5	1783.5	2565.5	5232.7	12859.5	17005.0	18654.6	18188.6
72.5°	883.7	889.1	1006.9	1114.0	1344.3	1799.6	3352.8	10642.2	15703.5	16448.0	16094.5
75°	701.6	696.3	765.9	915.9	1044.4	1285.4	2056.7	7632.2	13363.0	12854.2	12629.2
77.5°	503.5	498.1	551.7	680.2	792.7	910.5	1226.5	3850.9	7268.0	6678.8	6512.8
80°	342.8	332.1	380.3	471.3	524.9	535.6	599.9	1478.2	3170.7	2988.6	2951.1
82.5°	176.7	176.7	203.5	267.8	273.2	278.5	267.8	476.7	1049.8	980.1	937.3
85°	69.6	69.6	75.0	91.1	91.1	96.4	96.4	123.2	112.5	107.1	101.8
87.5°	5.4	5.4	10.7	10.7	16.1	16.1	16.1	21.4	26.8	26.8	26.8
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°	5302.3	5302.3	5302.3	5302.3	5302.3	5302.3	5302.3	5302.3	5302.3	5302.3	5302.3
2.5°	5345.2	5323.8	5254.1	5238.1	5227.4	5211.3	5216.6	5179.2	5163.1	5168.4	5147.0
5°	5441.6	5404.1	5318.4	5280.9	5270.2	5254.1	5270.2	5243.4	5216.6	5227.4	5216.6
7.5°	5575.5	5521.9	5414.8	5377.3	5372.0	5355.9	5377.3	5355.9	5334.5	5345.2	5323.8
10°	5714.7	5645.1	5527.3	5489.8	5489.8	5484.4	5505.9	5473.7	5452.3	5457.7	5447.0
12.5°	5918.3	5827.2	5698.7	5666.5	5650.5	5666.5	5671.9	5629.1	5591.6	5596.9	5580.9
15°	6164.6	6062.9	5923.6	5875.4	5864.7	5859.4	5837.9	5784.4	5736.2	5730.8	5714.7
17.5°	6432.4	6303.9	6137.9	6089.7	6041.5	6025.4	5971.8	5902.2	5827.2	5827.2	5805.8
20°	6689.5	6544.9	6346.7	6277.1	6207.5	6143.2	6052.2	5939.7	5843.3	5827.2	5805.8
22.5°	6968.0	6796.6	6566.3	6464.6	6341.4	6212.8	6057.5	5907.6	5784.4	5757.6	5741.5
25°	7278.7	7064.4	6791.3	6641.3	6443.2	6245.0	6014.7	5821.9	5677.3	5634.4	5623.7
27.5°	7621.4	7364.4	7032.3	6812.7	6523.5	6212.8	5918.3	5688.0	5511.2	5457.7	5441.6
30°	7969.6	7664.3	7251.9	6930.5	6523.5	6111.1	5741.5	5473.7	5270.2	5195.2	5184.5
32.5°	8317.7	7974.9	7450.1	6994.8	6459.2	5939.7	5511.2	5195.2	4964.9	4873.9	4895.3
35°	8735.5	8317.7	7632.2	7021.6	6352.1	5730.8	5248.8	4879.2	4643.6	4563.2	4579.3
37.5°	9169.3	8660.5	7776.8	7000.2	6202.1	5495.2	4954.2	4595.4	4300.8	4161.5	4177.6
40°	9544.2	8971.1	7878.5	6925.2	6009.3	5227.4	4665.0	4193.7	3786.6	3652.7	3636.7
42.5°	9897.7	9201.4	7932.1	6812.7	5789.7	4916.7	4252.6	3647.4	3240.3	3074.3	3079.6
45°	10267.3	9426.4	7910.7	6662.7	5516.6	4552.5	3722.4	3111.8	2752.9	2603.0	2608.3
47.5°	10690.4	9667.4	7889.2	6502.1	5184.5	4081.2	3213.5	2640.5	2329.8	2222.7	2212.0
50°	11140.3	9935.2	7862.5	6303.9	4815.0	3556.3	2710.1	2201.3	1938.8	1869.2	1853.1
52.5°	11649.1	10224.4	7846.4	6068.2	4370.4	2999.3	2260.2	1815.7	1638.9	1590.7	1585.3
55°	12259.7	10561.8	7867.8	5784.4	3834.8	2474.4	1879.9	1563.9	1446.1	1419.3	1414.0
57.5°	13004.1	10995.7	7932.1	5452.3	3272.5	2019.2	1601.4	1408.6	1333.6	1312.2	1312.2
60°	13812.9	11488.4	8049.9	5077.4	2710.1	1665.7	1419.3	1285.4	1253.3	1280.1	1280.1
62.5°	14685.9	12066.8	8258.8	4622.1	2185.2	1408.6	1274.7	1183.7	1162.2	1215.8	1221.1
65°	15494.6	12629.2	8392.7	4075.8	1735.3	1221.1	1162.2	1081.9	1092.6	1146.2	1140.8
67.5°	15992.7	13095.2	8205.2	3390.3	1376.5	1081.9	1044.4	974.8	1001.6	1044.4	1049.8
70°	15687.4	12832.7	7278.7	2560.1	1076.5	942.6	915.9	873.0	894.4	948.0	969.4
72.5°	14193.1	11493.8	5661.2	1730.0	867.7	792.7	803.4	782.0	808.7	856.9	905.1
75°	11520.5	8687.3	3797.3	1108.7	685.6	674.8	690.9	674.8	685.6	733.8	760.5
77.5°	6014.7	4236.5	1890.6	690.9	508.8	524.9	551.7	557.0	589.1	599.9	610.6
80°	2806.5	1906.7	787.3	385.6	337.4	369.6	423.1	428.5	439.2	455.3	460.6
82.5°	915.9	573.1	364.2	208.9	192.8	208.9	273.2	326.7	332.1	364.2	364.2
85°	96.4	58.9	80.3	85.7	75.0	91.1	123.2	117.8	53.6	32.1	32.1
87.5°	26.8	21.4	26.8	26.8	21.4	21.4	16.1	5.4	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)