

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: P842060

Luminaire Tested: **ARCH4-260-750-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842060
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: ARCH4-260-750-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1010mA 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: 27441 lumens
Efficiency: N/A
Efficacy: 105.9 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): 259.2
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

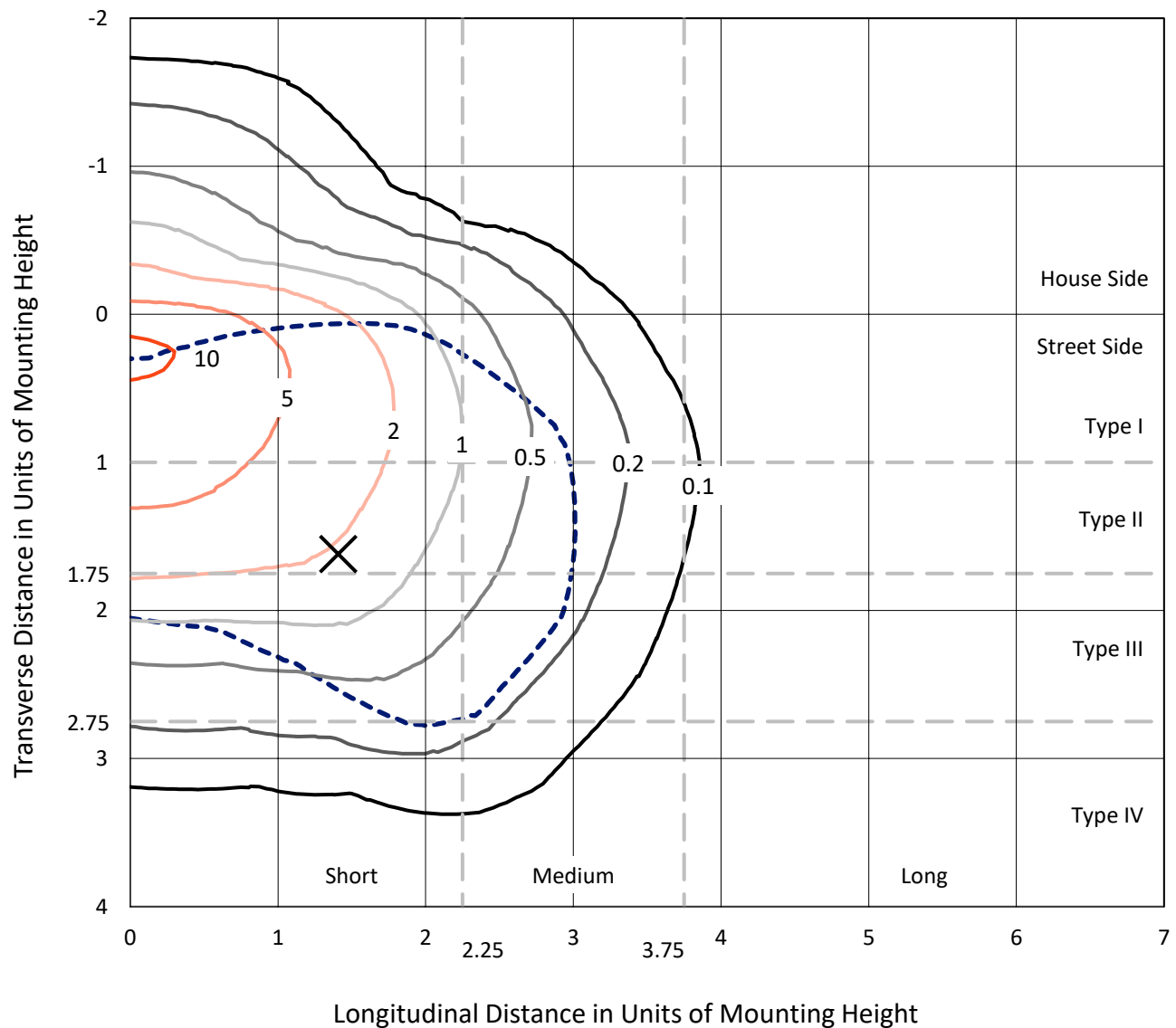


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Iso-Footcandle Lines of Horizontal Illumination

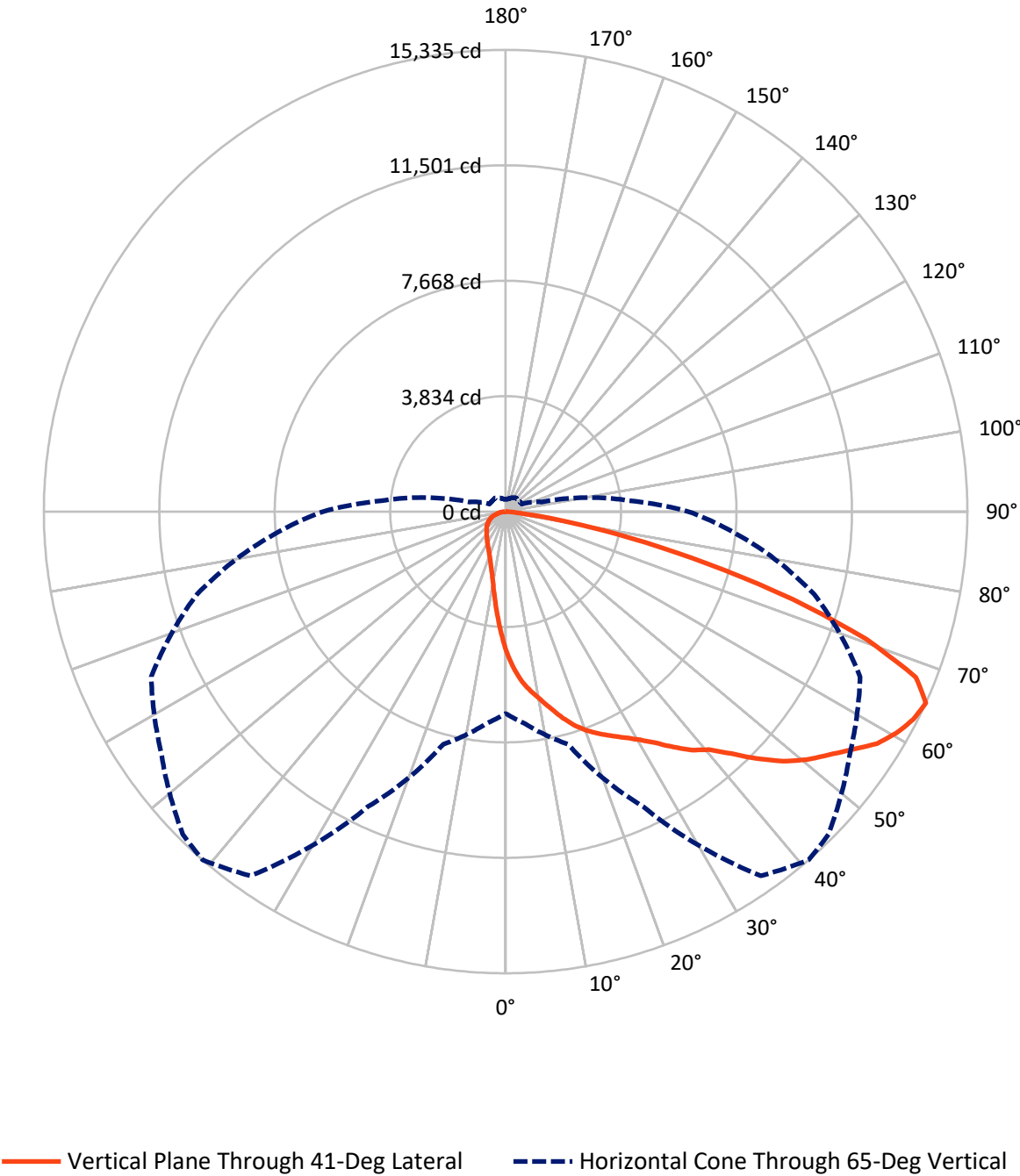
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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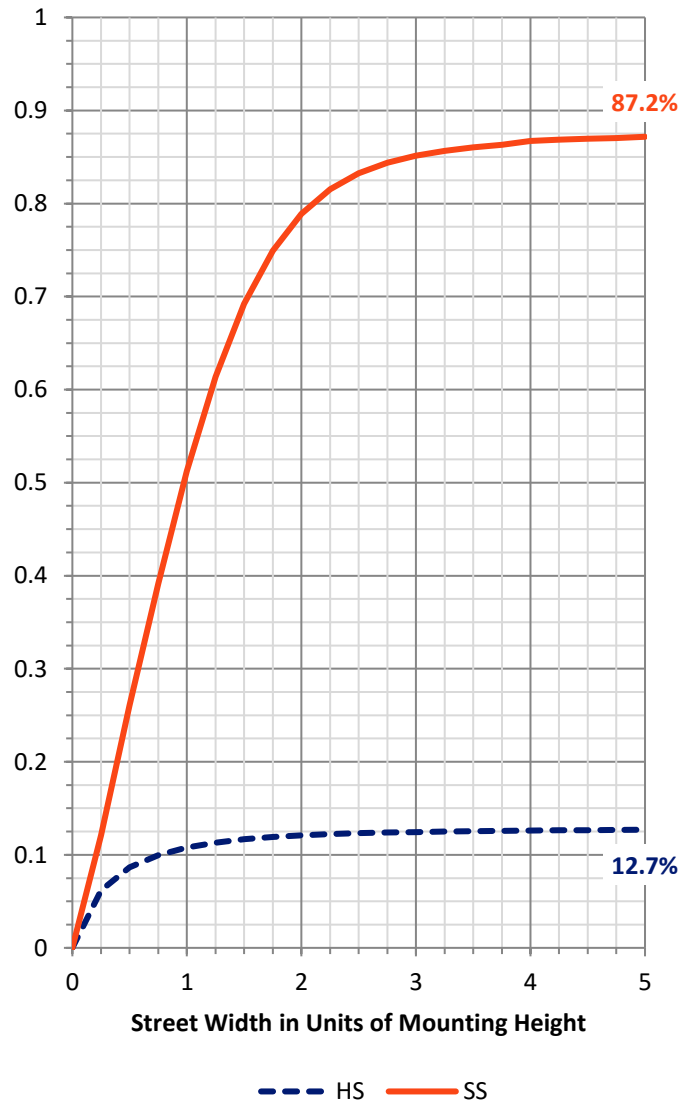
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3523.0	0.0	3523.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	23918.0	0.0	23918.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	27441.0	0.0	27441.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.7	1.6
10°-20°	1306.4	4.8
20°-30°	2247.4	8.2
30°-40°	3408.6	12.4
40°-50°	4993.6	18.2
50°-60°	6305.9	23.0
60°-70°	5912.9	21.5
70°-80°	2635.4	9.6
80°-90°	195.2	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°	27441.0	100.0
0°-180°	27441.0	100.0

Coefficient of Utilization



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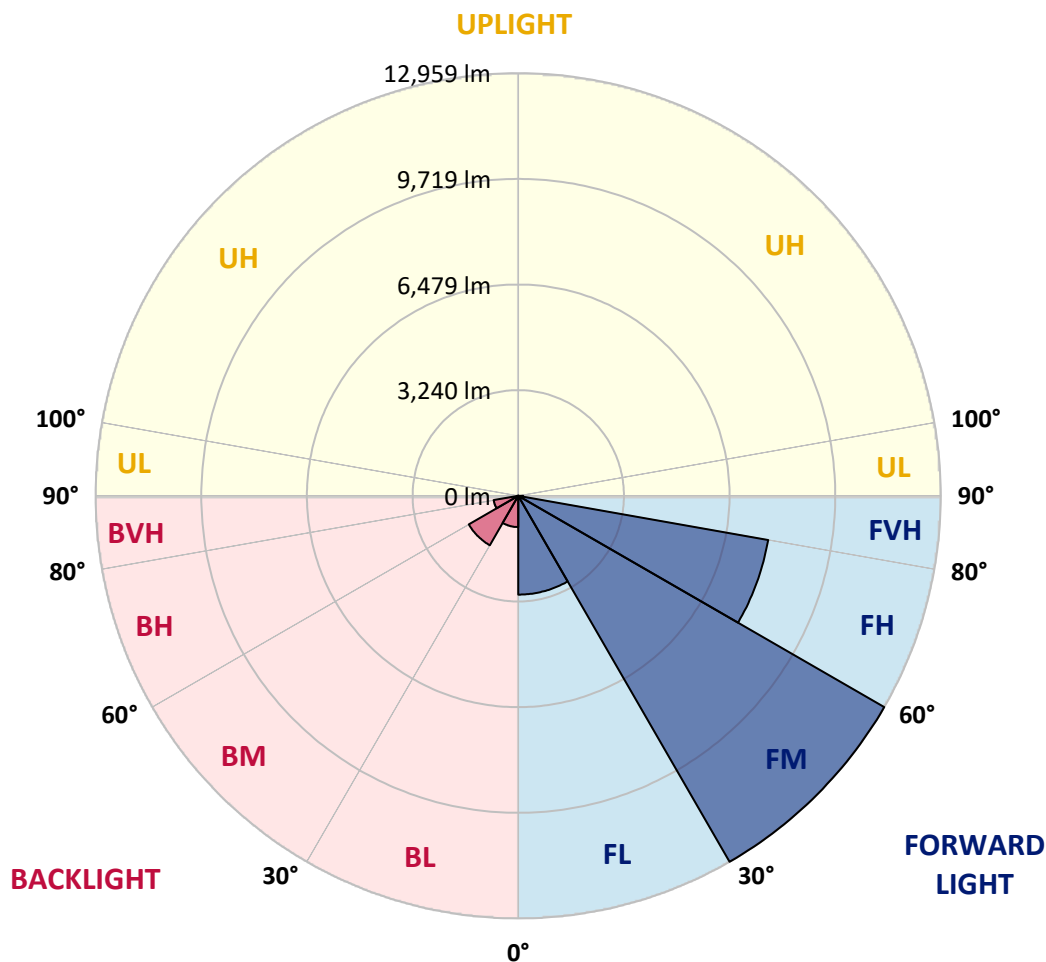
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3030.5	11.0			
FM	(30°-60°)	12958.7	47.2			
FH	(60°-80°)	7783.0	28.4			G4/12000
FVH	(80°-90°)	145.8	0.5			G2/225
BL	(0°-30°)	958.9	3.5	B2/1000		
BM	(30°-60°)	1749.4	6.4	B2/2500		
BH	(60°-80°)	765.3	2.8	B2/1000		G2/1000
BVH	(80°-90°)	49.4	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°	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8
2.5°	5393.4	5376.0	5364.4	5300.8	5300.8	5214.0	5219.8	5138.8	5040.4	4884.1	4716.3
5°	5902.6	5879.5	5850.5	5786.9	5763.7	5676.9	5665.4	5549.6	5381.8	5109.8	4808.9
7.5°	6348.2	6325.1	6284.6	6192.0	6128.3	6024.1	5995.2	5844.8	5659.6	5323.9	4901.5
10°	6753.3	6735.9	6683.9	6568.1	6481.3	6354.0	6301.9	6099.4	5867.9	5497.5	4976.7
12.5°	7164.2	7141.0	7071.6	6973.2	6869.0	6718.6	6654.9	6394.5	6099.4	5688.5	5086.7
15°	7546.1	7511.4	7459.3	7355.1	7262.5	7117.9	7048.4	6741.7	6382.9	5902.6	5231.3
17.5°	7794.9	7766.0	7719.7	7661.8	7586.6	7476.7	7407.2	7106.3	6666.5	6111.0	5381.8
20°	7945.4	7933.8	7916.5	7881.7	7847.0	7771.8	7719.7	7436.1	6973.2	6313.5	5526.5
22.5°	8061.1	8049.6	8043.8	8043.8	8049.6	8020.6	7985.9	7742.9	7268.3	6527.6	5659.6
25°	8240.5	8234.7	8223.2	8211.6	8252.1	8257.9	8246.3	8078.5	7638.7	6811.2	5827.4
27.5°	8489.4	8472.0	8448.9	8437.3	8477.8	8506.7	8529.9	8414.1	8032.2	7100.5	6018.4
30°	8871.3	8819.2	8761.3	8720.8	8749.8	8796.1	8848.1	8778.7	8437.3	7459.3	6215.1
32.5°	9322.7	9259.0	9125.9	9050.7	9125.9	9160.6	9201.1	9166.4	8859.7	7847.0	6411.9
35°	9872.4	9797.2	9658.3	9548.4	9681.5	9606.2	9588.9	9554.1	9259.0	8229.0	6631.8
37.5°	10786.8	10676.8	10456.9	10213.9	10213.9	10051.8	9988.2	9884.0	9617.8	8570.4	6845.9
40°	11845.8	11701.1	11417.5	11058.7	10728.9	10393.2	10352.7	10277.5	10040.2	8963.9	7088.9
42.5°	13008.9	12731.1	12337.6	11903.6	11371.2	10989.3	10896.7	10682.6	10451.1	9363.2	7332.0
45°	14299.4	13720.7	13147.8	12927.9	12048.3	11701.1	11527.5	11139.8	10879.3	9779.8	7586.6
47.5°	14507.7	14056.3	13674.4	13639.7	12679.1	12389.7	12193.0	11637.4	11342.3	10225.4	7852.8
50°	14392.0	14120.0	14160.5	14021.6	13142.0	12951.0	12800.6	12169.8	11799.5	10653.7	8095.9
52.5°	13905.9	14056.3	14287.8	14033.2	13581.8	13425.6	13350.3	12742.7	12227.7	11047.2	8315.8
55°	13327.2	13431.4	13929.0	14241.5	14091.1	13952.2	13882.7	13408.2	12650.1	11377.0	8518.3
57.5°	12482.3	12436.0	12985.8	14206.8	14623.5	14542.4	14467.2	14062.1	13043.6	11614.3	8645.6
60°	11215.0	11116.6	11811.0	13512.4	14797.1	14924.4	14889.7	14496.1	13344.6	11608.5	8593.5
62.5°	9021.8	9264.8	10225.4	12378.1	14872.3	15196.4	15132.7	14530.9	13442.9	11272.9	8263.7
65°	6707.0	7054.2	7997.5	10815.7	14768.1	15335.2	15161.6	13963.8	12985.8	10607.4	7540.3
67.5°	4832.0	5138.8	5827.4	8900.2	13767.0	14698.7	14496.1	13037.9	11932.6	9664.1	6539.2
70°	3304.3	3524.2	3993.0	6481.3	11753.2	12708.0	12580.7	11654.8	10271.7	8541.4	5312.4
72.5°	2332.1	2424.7	2725.6	4276.5	8929.2	9970.8	9820.3	9588.9	8252.1	7100.5	4131.8
75°	1747.6	1805.5	1967.5	2766.1	6024.1	6909.5	6770.7	6903.8	6163.0	5376.0	3009.2
77.5°	659.7	717.6	1116.9	1765.0	3564.7	4241.8	4102.9	4183.9	3425.8	2714.0	1498.8
80°	179.4	191.0	370.4	839.1	1620.3	2112.2	1921.2	1649.3	1273.1	1250.0	792.8
82.5°	75.2	86.8	167.8	451.4	578.7	578.7	486.1	601.8	486.1	584.5	381.9
85°	28.9	34.7	40.5	115.7	75.2	81.0	86.8	115.7	98.4	121.5	86.8
87.5°	0.0	0.0	0.0	5.8	5.8	11.6	5.8	11.6	17.4	17.4	17.4
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°	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8
2.5°	4646.9	4583.2	4490.6	4340.2	4183.9	4097.1	3987.2	3969.8	3854.1	3842.5	3796.2
5°	4675.8	4542.7	4305.4	4016.1	3732.5	3512.6	3350.6	3263.8	3096.0	3096.0	3049.7
7.5°	4699.0	4490.6	4108.7	3680.5	3292.7	2997.6	2777.7	2685.1	2534.7	2523.1	2488.4
10°	4704.7	4427.0	3894.6	3339.0	2864.5	2563.6	2349.5	2245.3	2112.2	2100.6	2077.5
12.5°	4751.0	4392.2	3703.6	3043.9	2557.8	2233.7	2025.4	1938.6	1834.4	1822.9	1799.7
15°	4826.3	4392.2	3541.6	2795.1	2285.8	1984.9	1805.5	1724.5	1649.3	1637.7	1626.1
17.5°	4901.5	4380.7	3379.5	2563.6	2060.1	1788.1	1631.9	1568.2	1510.4	1504.6	1493.0
20°	4970.9	4374.9	3217.5	2366.8	1886.5	1626.1	1504.6	1446.7	1400.4	1400.4	1394.6
22.5°	5040.4	4363.3	3061.3	2181.7	1736.1	1504.6	1400.4	1336.8	1302.0	1302.0	1296.3
25°	5144.5	4363.3	2916.6	2025.4	1614.5	1412.0	1307.8	1261.5	1232.6	1226.8	1226.8
27.5°	5266.1	4398.0	2789.3	1886.5	1510.4	1319.4	1238.4	1192.1	1157.4	1145.8	1151.6
30°	5399.2	4427.0	2673.5	1765.0	1412.0	1250.0	1163.2	1116.9	1082.1	1070.6	1076.4
32.5°	5532.3	4461.7	2569.4	1655.0	1313.6	1186.3	1099.5	1047.4	1012.7	1006.9	1006.9
35°	5676.9	4496.4	2465.2	1562.5	1232.6	1122.7	1041.6	983.8	960.6	949.0	954.8
37.5°	5821.6	4554.3	2366.8	1475.7	1174.7	1064.8	989.6	931.7	914.3	908.5	908.5
40°	5995.2	4641.1	2326.3	1417.8	1122.7	1012.7	949.0	891.2	873.8	873.8	873.8
42.5°	6139.9	4710.5	2291.6	1354.1	1082.1	966.4	908.5	862.2	850.7	844.9	850.7
45°	6284.6	4774.2	2245.3	1296.3	1030.1	920.1	873.8	827.5	816.0	816.0	816.0
47.5°	6429.2	4808.9	2181.7	1238.4	983.8	879.6	839.1	798.6	787.0	787.0	787.0
50°	6545.0	4837.8	2089.1	1174.7	931.7	844.9	804.4	763.9	752.3	752.3	752.3
52.5°	6660.7	4843.6	1990.7	1099.5	879.6	804.4	769.7	729.1	717.6	711.8	711.8
55°	6764.9	4837.8	1875.0	1012.7	821.7	758.1	729.1	694.4	671.3	648.1	659.7
57.5°	6840.1	4832.0	1741.9	925.9	763.9	711.8	700.2	653.9	607.6	549.8	561.3
60°	6811.2	4768.4	1597.2	816.0	700.2	665.5	665.5	601.8	520.8	491.9	497.7
62.5°	6626.0	4589.0	1446.7	700.2	636.6	619.2	613.4	544.0	480.3	451.4	457.2
65°	6070.4	4137.6	1226.8	596.0	572.9	567.1	567.1	503.5	445.6	410.9	416.7
67.5°	5225.6	3472.1	1001.1	503.5	509.2	520.8	520.8	463.0	405.1	370.4	376.1
70°	4189.7	2714.0	798.6	434.0	439.8	457.2	468.7	416.7	364.6	329.9	329.9
72.5°	3153.9	2060.1	642.3	364.6	393.5	393.5	410.9	370.4	318.3	283.6	289.3
75°	2285.8	1475.7	509.2	306.7	341.4	335.6	335.6	312.5	272.0	248.8	248.8
77.5°	1082.1	775.4	405.1	219.9	266.2	260.4	266.2	248.8	231.5	208.3	214.1
80°	532.4	381.9	260.4	156.2	185.2	191.0	208.3	196.8	191.0	173.6	173.6
82.5°	254.6	150.5	121.5	110.0	127.3	133.1	144.7	144.7	150.5	138.9	138.9
85°	69.4	40.5	52.1	69.4	81.0	86.8	98.4	104.2	104.2	98.4	104.2
87.5°	17.4	17.4	23.1	34.7	40.5	46.3	52.1	52.1	23.1	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)