

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: P842675

Luminaire Tested: **ARCH4-80-730-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10038 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 83.4
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



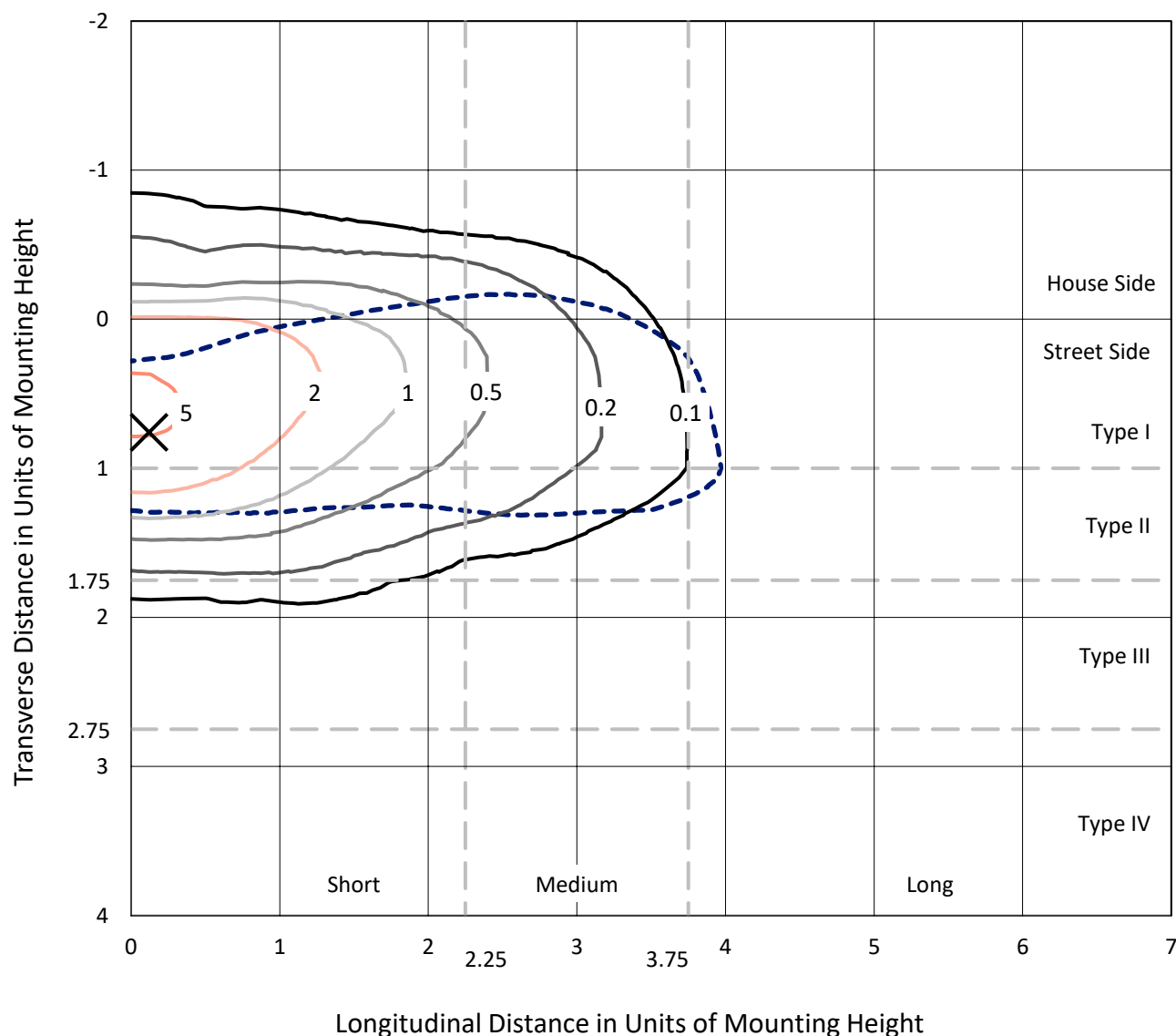
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

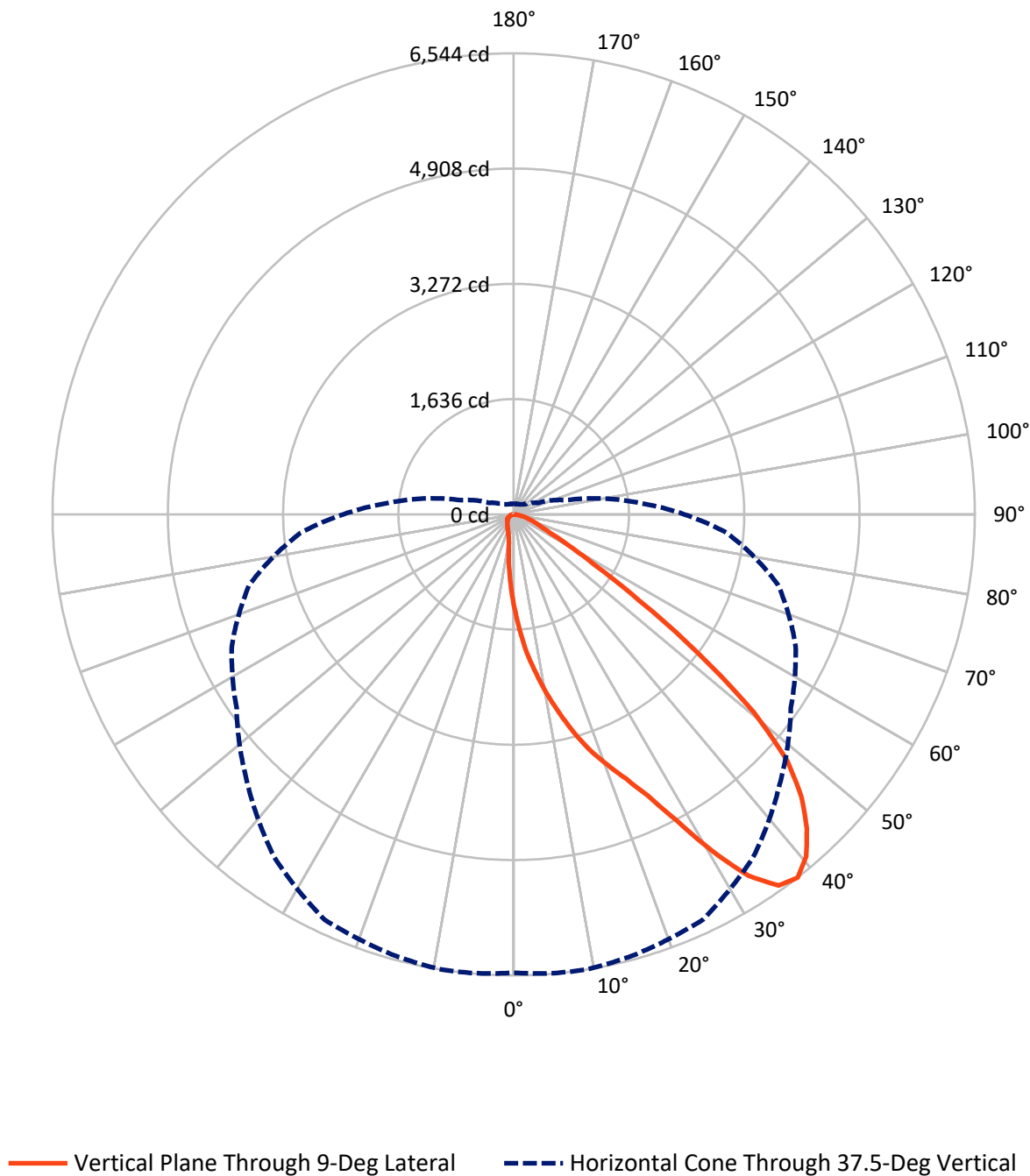


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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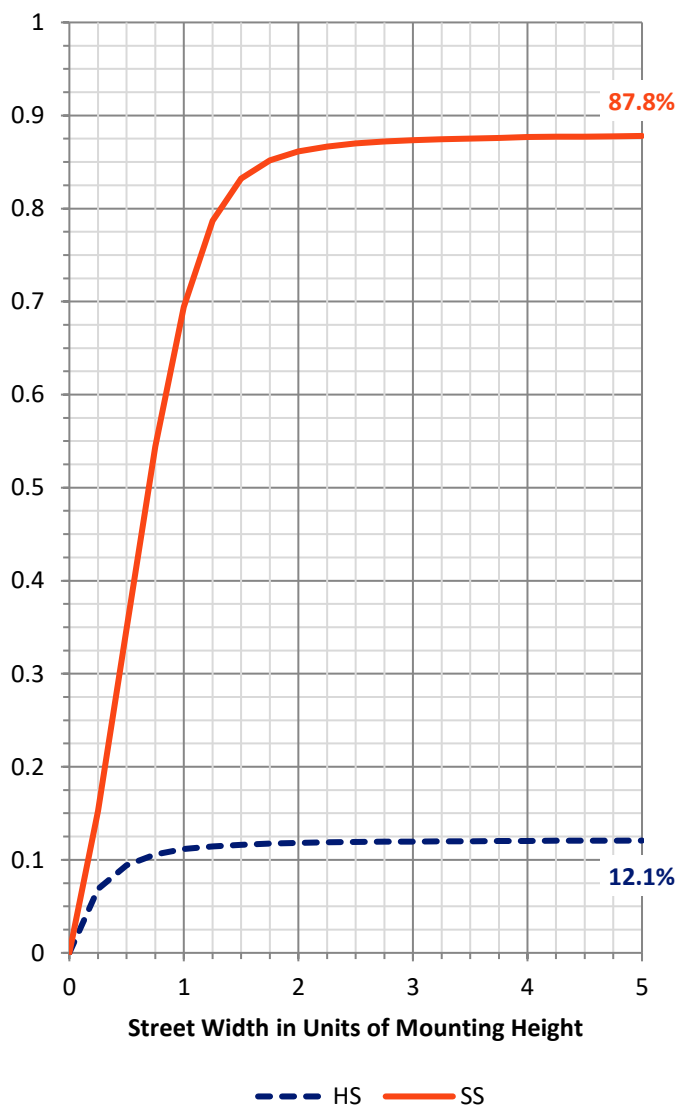
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1220.8	0.0	1220.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	8817.2	0.0	8817.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	10038.0	0.0	10038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	1.3
10°-20°	463.6	4.6
20°-30°	952.5	9.5
30°-40°	1683.6	16.8
40°-50°	2236.6	22.3
50°-60°	2121.3	21.1
60°-70°	1618.3	16.1
70°-80°	784.6	7.8
80°-90°	44.2	0.4
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°	10038.0	100.0
0°-180°	10038.0	100.0

Coefficient of Utilization



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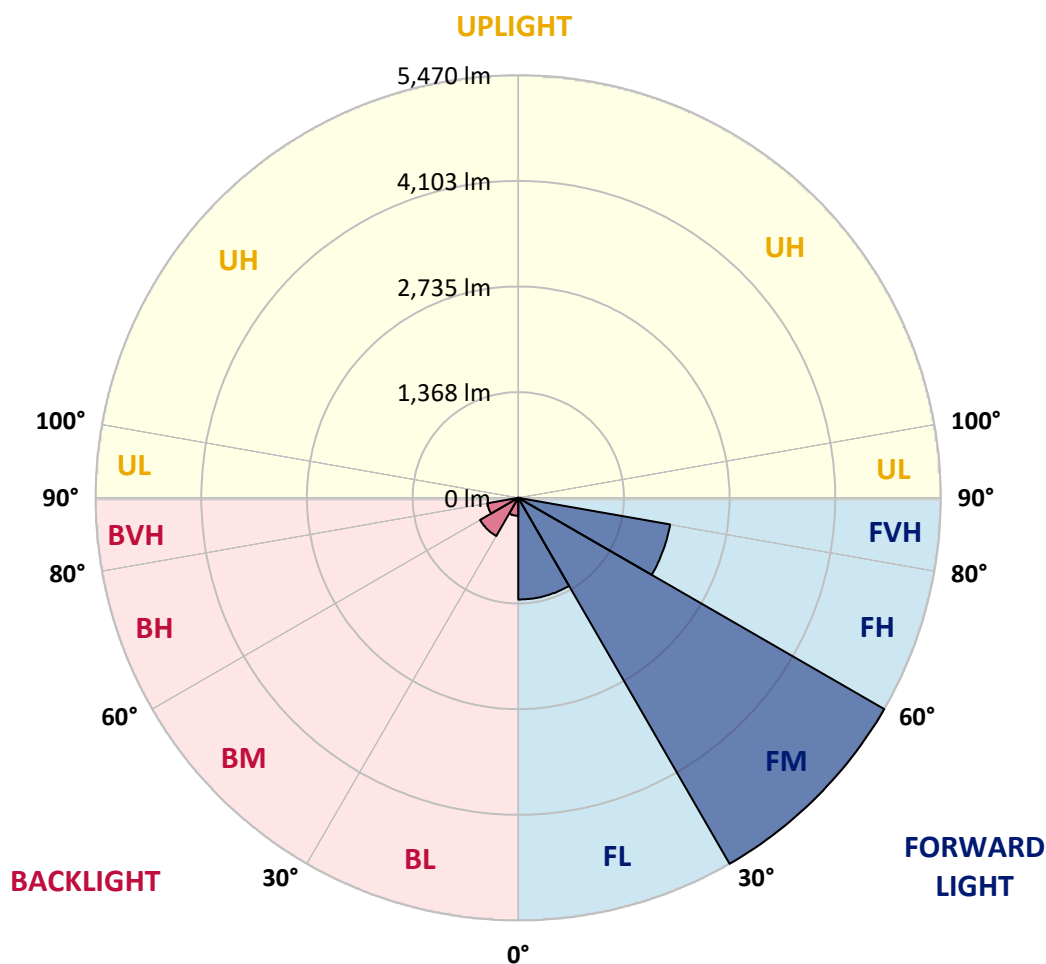
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1316.5	13.1			
FM	(30°-60°)	5470.2	54.5			
FH	(60°-80°)	1995.5	19.9			G2/5000
FVH	(80°-90°)	35.0	0.3			G1/100
BL	(0°-30°)	233.0	2.3	B1/500		
BM	(30°-60°)	571.3	5.7	B1/1000		
BH	(60°-80°)	407.4	4.1	B1/500		G1/500
BVH	(80°-90°)	9.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9
2.5°	1644.2	1615.4	1648.3	1644.2	1615.4	1596.8	1539.1	1520.6	1452.6	1403.1	1359.9
5°	1982.1	1953.3	1982.1	1973.9	1932.7	1887.3	1792.6	1730.7	1609.2	1502.0	1405.2
7.5°	2262.3	2262.3	2274.7	2276.7	2227.3	2157.2	2039.8	1947.1	1776.1	1611.2	1456.7
10°	2565.2	2567.3	2594.1	2575.5	2509.6	2414.8	2266.4	2149.0	1943.0	1726.6	1506.2
12.5°	2888.7	2890.8	2899.0	2890.8	2812.5	2690.9	2511.6	2357.1	2120.2	1858.5	1574.2
15°	3212.2	3214.2	3224.5	3210.1	3123.6	2981.4	2777.4	2587.9	2307.7	2006.8	1656.6
17.5°	3515.1	3519.2	3527.4	3508.9	3418.2	3249.3	3041.2	2812.5	2507.5	2165.5	1749.3
20°	3787.0	3791.1	3797.3	3772.6	3681.9	3513.0	3288.4	3049.4	2711.5	2328.3	1850.2
22.5°	4061.1	4065.2	4075.5	4042.5	3941.6	3747.9	3527.4	3280.2	2927.8	2507.5	1967.7
25°	4411.3	4415.5	4423.7	4376.3	4238.3	4011.6	3778.8	3525.4	3162.7	2709.4	2111.9
27.5°	4924.4	4920.3	4920.3	4833.7	4596.8	4302.1	4032.2	3774.7	3416.2	2925.8	2270.6
30°	5559.0	5548.7	5542.5	5425.1	5087.1	4629.7	4291.8	4007.5	3659.3	3154.5	2441.6
32.5°	6127.7	6127.7	6115.3	5991.7	5633.2	5070.7	4567.9	4234.1	3894.2	3385.2	2618.8
35°	6463.5	6477.9	6471.7	6379.0	6117.3	5544.6	4940.9	4506.1	4141.4	3626.3	2831.0
37.5°	6508.8	6537.7	6543.9	6488.2	6350.2	5931.9	5355.0	4800.7	4413.4	3885.9	3037.0
40°	6325.4	6387.3	6387.3	6379.0	6329.6	6115.3	5703.2	5142.8	4693.6	4155.8	3245.1
42.5°	6043.2	6107.0	6098.8	6129.7	6117.3	6072.0	5898.9	5462.1	4973.8	4434.0	3434.7
45°	5674.4	5740.3	5723.8	5779.4	5804.2	5853.6	5878.3	5684.7	5249.9	4736.9	3646.9
47.5°	5083.0	5194.3	5219.0	5317.9	5420.9	5575.5	5692.9	5765.0	5507.5	5062.4	3877.7
50°	4209.4	4366.0	4415.5	4623.6	4905.8	5225.2	5414.7	5666.1	5688.8	5396.2	4127.0
52.5°	3014.4	3195.7	3271.9	3614.0	4195.0	4751.3	5093.3	5447.7	5758.8	5715.6	4396.9
55°	1949.1	2103.7	2177.9	2499.3	3271.9	4145.5	4714.2	5165.4	5719.7	6008.1	4706.0
57.5°	1201.2	1289.8	1339.3	1615.4	2326.2	3368.8	4217.7	4905.8	5600.2	6261.6	5027.4
60°	809.7	861.3	886.0	1015.8	1580.3	2517.8	3535.7	4633.9	5443.6	6432.6	5320.0
62.5°	537.8	554.2	579.0	659.3	1042.6	1767.8	2715.6	4147.6	5326.2	6442.9	5536.3
65°	416.2	424.4	434.7	469.8	642.8	1236.2	1910.0	3360.5	5151.0	6224.5	5604.3
67.5°	327.6	335.8	348.2	366.8	465.7	838.6	1300.1	2462.2	4792.5	5882.5	5493.0
70°	257.6	263.7	272.0	288.5	362.6	607.8	859.2	1636.0	4069.3	5556.9	5142.8
72.5°	204.0	210.2	218.4	234.9	294.6	445.0	589.3	1019.9	3138.0	5159.3	4469.0
75°	160.7	164.8	171.0	187.5	236.9	346.1	399.7	609.9	2132.5	4431.9	3482.1
77.5°	80.4	98.9	113.3	129.8	173.1	239.0	265.8	337.9	900.4	2274.7	1660.7
80°	47.4	57.7	61.8	72.1	113.3	144.2	144.2	136.0	284.3	873.6	677.9
82.5°	26.8	37.1	39.1	41.2	68.0	82.4	65.9	49.4	57.7	292.6	197.8
85°	8.2	12.4	14.4	16.5	22.7	24.7	22.7	20.6	16.5	28.8	18.5
87.5°	0.0	0.0	0.0	0.0	2.1	4.1	4.1	4.1	6.2	6.2	6.2
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°	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9
2.5°	1335.1	1308.4	1256.8	1209.5	1164.1	1131.2	1100.3	1071.4	1050.8	1034.3	1032.3
5°	1353.7	1300.1	1201.2	1108.5	1024.0	954.0	894.2	846.8	811.8	787.1	785.0
7.5°	1378.4	1296.0	1145.6	1007.5	881.9	780.9	694.4	630.5	585.2	566.6	552.2
10°	1399.0	1291.9	1090.0	906.6	741.7	614.0	511.0	447.1	414.1	401.8	395.6
12.5°	1434.0	1296.0	1042.6	813.9	620.2	469.8	391.5	356.5	342.0	331.7	329.7
15°	1485.6	1314.5	997.2	723.2	496.6	379.1	333.8	311.1	296.7	294.6	292.6
17.5°	1537.1	1331.0	956.0	630.5	412.1	329.7	298.8	280.2	269.9	267.9	267.9
20°	1596.8	1351.6	910.7	541.9	352.3	296.7	272.0	257.6	245.2	243.1	243.1
22.5°	1666.9	1380.5	867.4	463.6	313.2	272.0	251.4	234.9	224.6	222.5	222.5
25°	1761.6	1423.7	832.4	405.9	286.4	251.4	232.8	218.4	210.2	206.0	206.0
27.5°	1866.7	1483.5	807.7	370.9	267.9	234.9	216.3	204.0	195.7	191.6	191.6
30°	1984.2	1549.4	791.2	356.5	257.6	220.5	204.0	191.6	181.3	179.3	179.3
32.5°	2114.0	1625.7	780.9	358.5	255.5	210.2	191.6	179.3	171.0	166.9	166.9
35°	2258.2	1710.1	774.7	370.9	259.6	201.9	181.3	169.0	160.7	156.6	156.6
37.5°	2418.9	1809.0	774.7	383.2	269.9	199.9	171.0	158.7	152.5	148.3	148.3
40°	2569.3	1914.1	783.0	397.7	280.2	199.9	162.8	152.5	144.2	140.1	140.1
42.5°	2686.8	1973.9	789.1	412.1	286.4	197.8	154.5	144.2	138.0	133.9	133.9
45°	2820.7	2037.7	776.8	418.3	286.4	193.7	148.3	138.0	131.9	127.7	127.7
47.5°	2969.0	2116.0	774.7	422.4	280.2	185.4	142.2	131.9	127.7	123.6	123.6
50°	3119.5	2202.6	778.8	420.3	272.0	173.1	133.9	127.7	121.6	117.4	117.4
52.5°	3290.5	2293.2	787.1	416.2	253.4	158.7	127.7	121.6	115.4	111.3	109.2
55°	3480.0	2392.1	803.6	408.0	228.7	144.2	121.6	115.4	107.1	103.0	101.0
57.5°	3698.4	2513.7	822.1	391.5	201.9	131.9	115.4	107.1	94.8	88.6	86.5
60°	3906.5	2651.7	842.7	352.3	175.1	119.5	109.2	96.8	84.5	80.4	78.3
62.5°	4102.3	2787.7	853.0	282.3	148.3	109.2	103.0	88.6	76.2	72.1	70.1
65°	4228.0	2936.1	830.3	191.6	121.6	101.0	94.8	82.4	70.1	63.9	63.9
67.5°	4236.2	3006.1	752.0	125.7	98.9	90.7	86.5	74.2	61.8	57.7	55.6
70°	4028.1	2901.1	574.9	98.9	82.4	78.3	78.3	65.9	53.6	49.4	47.4
72.5°	3550.1	2569.3	366.8	80.4	70.1	65.9	65.9	55.6	47.4	41.2	39.1
75°	2802.2	1982.1	195.7	65.9	57.7	55.6	51.5	45.3	39.1	35.0	33.0
77.5°	1287.8	873.6	90.7	47.4	43.3	43.3	39.1	33.0	30.9	26.8	26.8
80°	508.9	296.7	45.3	30.9	28.8	28.8	28.8	22.7	22.7	18.5	16.5
82.5°	140.1	61.8	22.7	18.5	18.5	18.5	16.5	14.4	14.4	12.4	12.4
85°	14.4	10.3	10.3	10.3	10.3	8.2	8.2	6.2	4.1	4.1	4.1
87.5°	6.2	6.2	6.2	6.2	6.2	4.1	2.1	0.0	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)