

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: P836900

Luminaire Tested: **ARCH3-90-730-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10277 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93.1
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

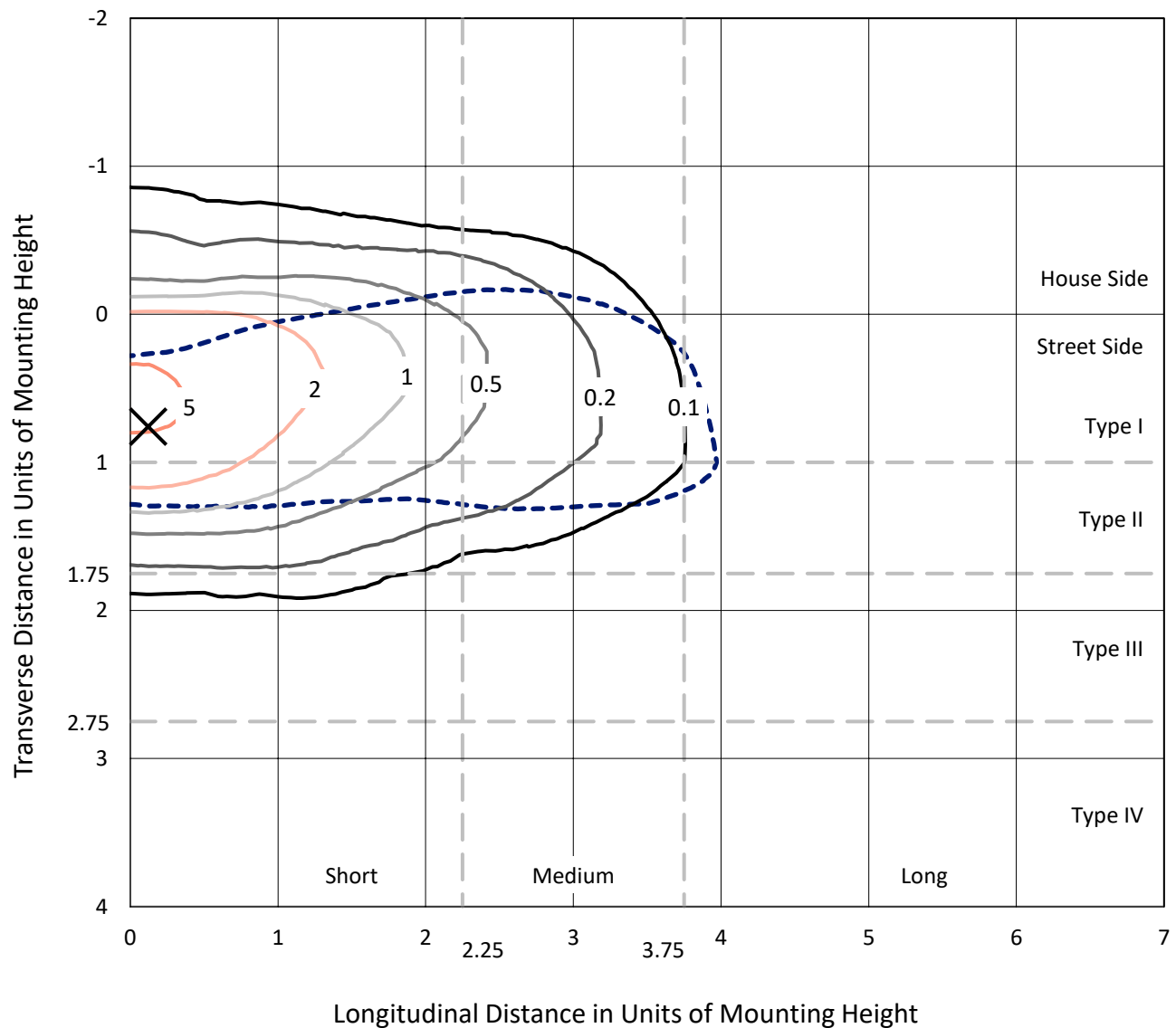


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Iso-Footcandle Lines of Horizontal Illumination

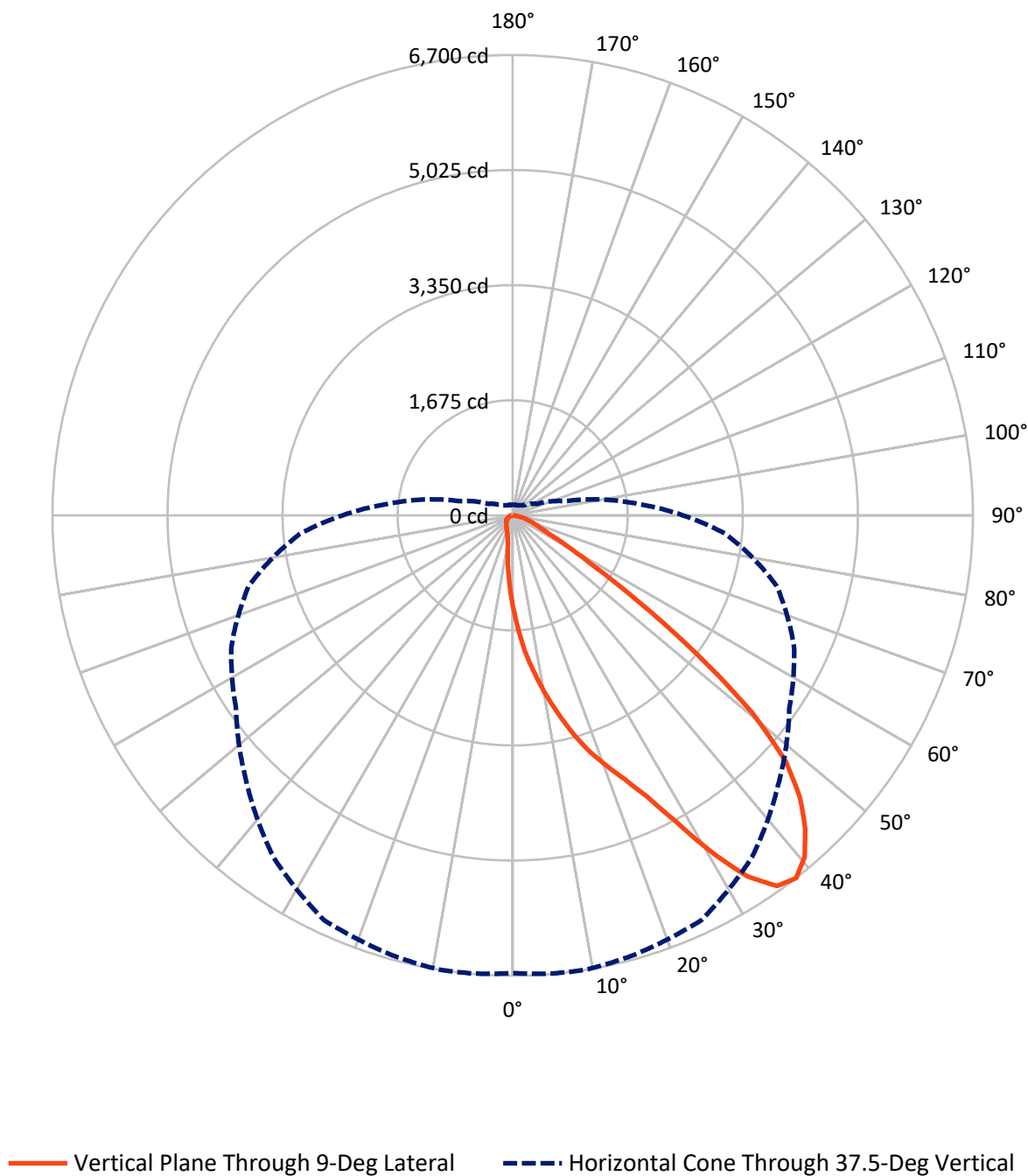
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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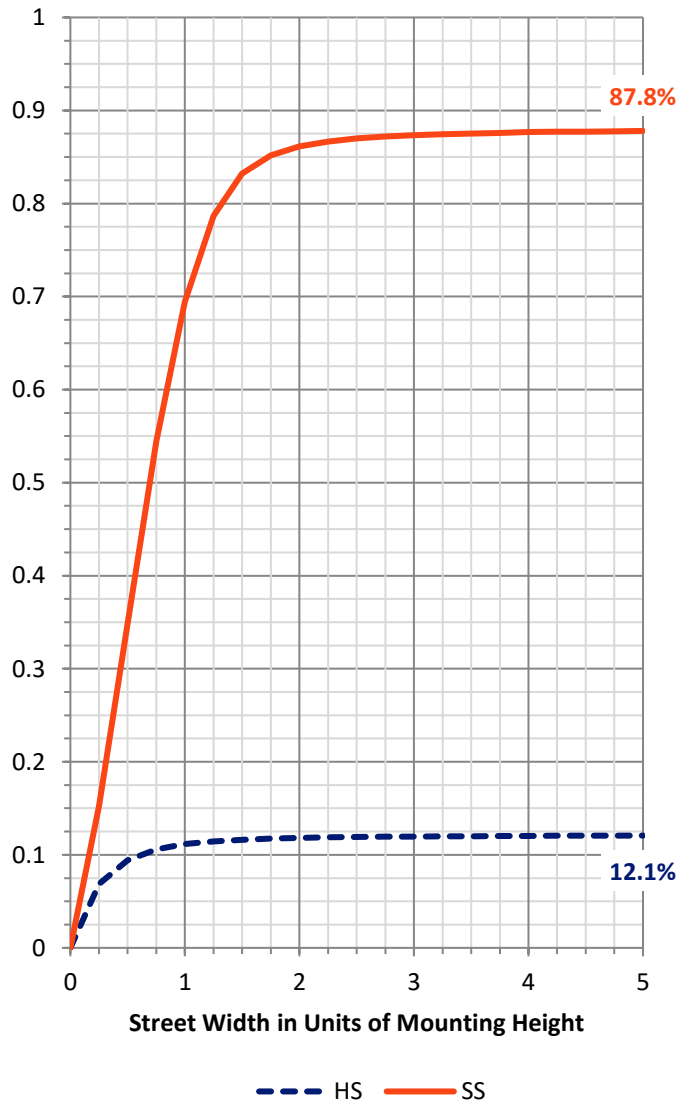
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1249.9	0.0	1249.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	9027.1	0.0	9027.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	10277.0	0.0	10277.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	1.3
10°-20°	474.6	4.6
20°-30°	975.2	9.5
30°-40°	1723.7	16.8
40°-50°	2289.8	22.3
50°-60°	2171.8	21.1
60°-70°	1656.9	16.1
70°-80°	803.2	7.8
80°-90°	45.2	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°	10277.0	100.0
0°-180°	10277.0	100.0

Coefficient of Utilization



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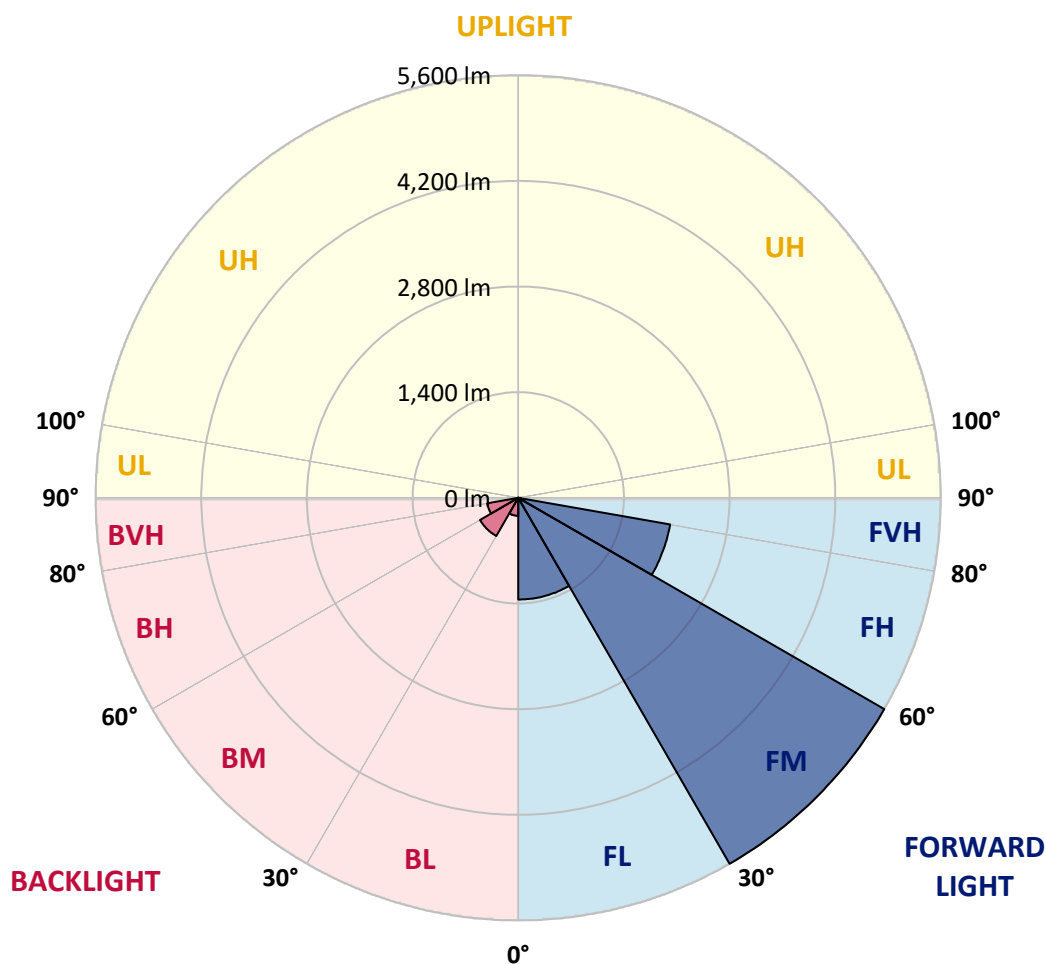
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1347.8	13.1			
FM	(30°-60°)	5600.5	54.5			
FH	(60°-80°)	2043.0	19.9			G2/5000
FVH	(80°-90°)	35.8	0.3			G1/100
BL	(0°-30°)	238.5	2.3	B1/500		
BM	(30°-60°)	584.9	5.7	B1/1000		
BH	(60°-80°)	417.1	4.1	B1/500		G1/500
BVH	(80°-90°)	9.4	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°	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5
2.5°	1683.4	1653.8	1687.6	1683.4	1653.8	1634.8	1575.8	1556.8	1487.2	1436.5	1392.2
5°	2029.3	1999.8	2029.3	2020.9	1978.7	1932.3	1835.2	1772.0	1647.5	1537.8	1438.7
7.5°	2316.2	2316.2	2328.8	2331.0	2280.3	2208.6	2088.4	1993.4	1818.4	1649.6	1491.4
10°	2626.3	2628.4	2655.8	2636.8	2569.3	2472.3	2320.4	2200.2	1989.2	1767.7	1542.0
12.5°	2957.5	2959.6	2968.0	2959.6	2879.4	2755.0	2571.4	2413.2	2170.6	1902.7	1611.6
15°	3288.7	3290.8	3301.3	3286.5	3197.9	3052.4	2843.6	2649.5	2362.6	2054.6	1696.0
17.5°	3598.7	3603.0	3611.4	3592.4	3499.6	3326.6	3113.6	2879.4	2567.2	2217.0	1790.9
20°	3877.2	3881.4	3887.7	3862.4	3769.6	3596.6	3366.7	3122.0	2776.1	2383.7	1894.3
22.5°	4157.8	4162.0	4172.5	4138.8	4035.4	3837.1	3611.4	3358.3	2997.5	2567.2	2014.5
25°	4516.4	4520.6	4529.0	4480.5	4339.2	4107.1	3868.8	3609.3	3238.0	2773.9	2162.2
27.5°	5041.6	5037.4	5037.4	4948.8	4706.2	4404.6	4128.2	3864.5	3497.5	2995.4	2324.6
30°	5691.3	5680.8	5674.5	5554.2	5208.3	4740.0	4394.0	4102.9	3746.4	3229.6	2499.7
32.5°	6273.5	6273.5	6260.9	6134.3	5767.3	5191.4	4676.7	4334.9	3986.9	3465.8	2681.1
35°	6617.4	6632.2	6625.8	6530.9	6263.0	5676.6	5058.5	4613.4	4240.0	3712.7	2898.4
37.5°	6663.8	6693.3	6699.7	6642.7	6501.4	6073.1	5482.5	4915.1	4518.5	3978.4	3109.4
40°	6476.1	6539.3	6539.3	6530.9	6480.3	6260.9	5839.0	5265.2	4805.4	4254.8	3322.4
42.5°	6187.1	6252.5	6244.0	6275.7	6263.0	6216.6	6039.4	5592.2	5092.2	4539.6	3516.5
45°	5809.5	5877.0	5860.1	5917.0	5942.4	5993.0	6018.3	5820.0	5374.9	4849.7	3733.8
47.5°	5204.0	5318.0	5343.3	5444.5	5550.0	5708.2	5828.5	5902.3	5638.6	5183.0	3970.0
50°	4309.6	4470.0	4520.6	4733.6	5022.6	5349.6	5543.7	5801.0	5824.2	5524.7	4225.3
52.5°	3086.1	3271.8	3349.8	3700.0	4294.9	4864.4	5214.6	5577.4	5896.0	5851.7	4501.6
55°	1995.6	2153.8	2229.7	2558.8	3349.8	4244.2	4826.5	5288.4	5855.9	6151.2	4818.0
57.5°	1229.8	1320.5	1371.2	1653.8	2381.6	3449.0	4318.1	5022.6	5733.5	6410.7	5147.1
60°	829.0	881.8	907.1	1040.0	1618.0	2577.8	3619.8	4744.2	5573.2	6585.7	5446.6
62.5°	550.6	567.4	592.8	675.0	1067.4	1809.9	2780.3	4246.4	5453.0	6596.3	5668.1
65°	426.1	434.5	445.1	481.0	658.2	1265.7	1955.5	3440.5	5273.7	6372.7	5737.7
67.5°	335.4	343.8	356.5	375.5	476.7	858.6	1331.1	2520.8	4906.6	6022.5	5623.8
70°	263.7	270.0	278.4	295.3	371.3	622.3	879.6	1674.9	4166.2	5689.2	5265.2
72.5°	208.8	215.2	223.6	240.5	301.7	455.6	603.3	1044.2	3212.7	5282.1	4575.4
75°	164.5	168.8	175.1	192.0	242.6	354.4	409.2	624.4	2183.3	4537.5	3565.0
77.5°	82.3	101.3	116.0	132.9	177.2	244.7	272.1	346.0	921.8	2328.8	1700.2
80°	48.5	59.1	63.3	73.8	116.0	147.7	147.7	139.2	291.1	894.4	694.0
82.5°	27.4	38.0	40.1	42.2	69.6	84.4	67.5	50.6	59.1	299.5	202.5
85°	8.4	12.7	14.8	16.9	23.2	25.3	23.2	21.1	16.9	29.5	19.0
87.5°	0.0	0.0	0.0	0.0	2.1	4.2	4.2	4.2	6.3	6.3	6.3
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°	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5
2.5°	1366.9	1339.5	1286.8	1238.3	1191.8	1158.1	1126.5	1096.9	1075.8	1059.0	1056.8
5°	1385.9	1331.1	1229.8	1134.9	1048.4	976.7	915.5	867.0	831.1	805.8	803.7
7.5°	1411.2	1326.9	1172.9	1031.5	902.9	799.5	710.9	645.5	599.1	580.1	565.3
10°	1432.3	1322.6	1115.9	928.2	759.4	628.6	523.1	457.8	424.0	411.3	405.0
12.5°	1468.2	1326.9	1067.4	833.2	634.9	481.0	400.8	364.9	350.2	339.6	337.5
15°	1520.9	1345.8	1021.0	740.4	508.4	388.1	341.7	318.5	303.8	301.7	299.5
17.5°	1573.7	1362.7	978.8	645.5	421.9	337.5	305.9	286.9	276.3	274.2	274.2
20°	1634.8	1383.8	932.4	554.8	360.7	303.8	278.4	263.7	251.0	248.9	248.9
22.5°	1706.6	1413.3	888.1	474.6	320.6	278.4	257.4	240.5	229.9	227.8	227.8
25°	1803.6	1457.6	852.2	415.6	293.2	257.4	238.4	223.6	215.2	210.9	210.9
27.5°	1911.2	1518.8	826.9	379.7	274.2	240.5	221.5	208.8	200.4	196.2	196.2
30°	2031.4	1586.3	810.0	364.9	263.7	225.7	208.8	196.2	185.6	183.5	183.5
32.5°	2164.3	1664.4	799.5	367.0	261.6	215.2	196.2	183.5	175.1	170.9	170.9
35°	2312.0	1750.9	793.2	379.7	265.8	206.7	185.6	173.0	164.5	160.3	160.3
37.5°	2476.5	1852.1	793.2	392.4	276.3	204.6	175.1	162.4	156.1	151.9	151.9
40°	2630.5	1959.7	801.6	407.1	286.9	204.6	166.6	156.1	147.7	143.4	143.4
42.5°	2750.7	2020.9	807.9	421.9	293.2	202.5	158.2	147.7	141.3	137.1	137.1
45°	2887.9	2086.3	795.3	428.2	293.2	198.3	151.9	141.3	135.0	130.8	130.8
47.5°	3039.7	2166.4	793.2	432.4	286.9	189.9	145.6	135.0	130.8	126.6	126.6
50°	3193.7	2255.0	797.4	430.3	278.4	177.2	137.1	130.8	124.5	120.2	120.2
52.5°	3368.8	2347.8	805.8	426.1	259.5	162.4	130.8	124.5	118.1	113.9	111.8
55°	3562.9	2449.1	822.7	417.7	234.2	147.7	124.5	118.1	109.7	105.5	103.4
57.5°	3786.5	2573.5	841.7	400.8	206.7	135.0	118.1	109.7	97.0	90.7	88.6
60°	3999.5	2714.9	862.8	360.7	179.3	122.3	111.8	99.1	86.5	82.3	80.2
62.5°	4199.9	2854.1	873.3	289.0	151.9	111.8	105.5	90.7	78.1	73.8	71.7
65°	4328.6	3006.0	850.1	196.2	124.5	103.4	97.0	84.4	71.7	65.4	65.4
67.5°	4337.1	3077.7	770.0	128.7	101.3	92.8	88.6	75.9	63.3	59.1	57.0
70°	4124.0	2970.1	588.5	101.3	84.4	80.2	80.2	67.5	54.8	50.6	48.5
72.5°	3634.6	2630.5	375.5	82.3	71.7	67.5	67.5	57.0	48.5	42.2	40.1
75°	2868.9	2029.3	200.4	67.5	59.1	57.0	52.7	46.4	40.1	35.9	33.8
77.5°	1318.4	894.4	92.8	48.5	44.3	44.3	40.1	33.8	31.6	27.4	27.4
80°	521.0	303.8	46.4	31.6	29.5	29.5	29.5	23.2	23.2	19.0	16.9
82.5°	143.4	63.3	23.2	19.0	19.0	19.0	16.9	14.8	14.8	12.7	12.7
85°	14.8	10.5	10.5	10.5	10.5	8.4	8.4	6.3	4.2	4.2	4.2
87.5°	6.3	6.3	6.3	6.3	6.3	4.2	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)