

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: P836895

Luminaire Tested: **ARCH3-90-727-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9712 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - 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

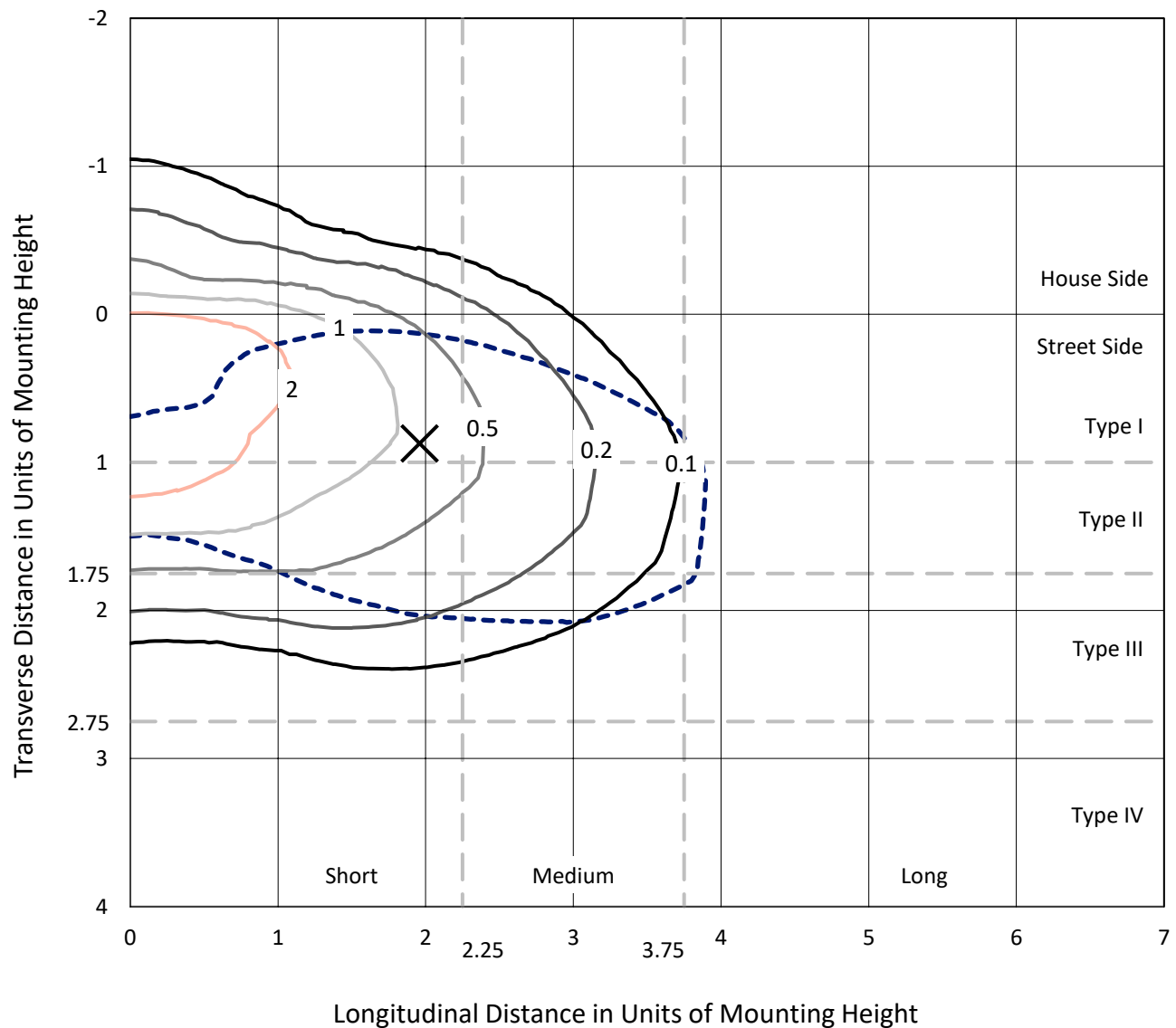


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

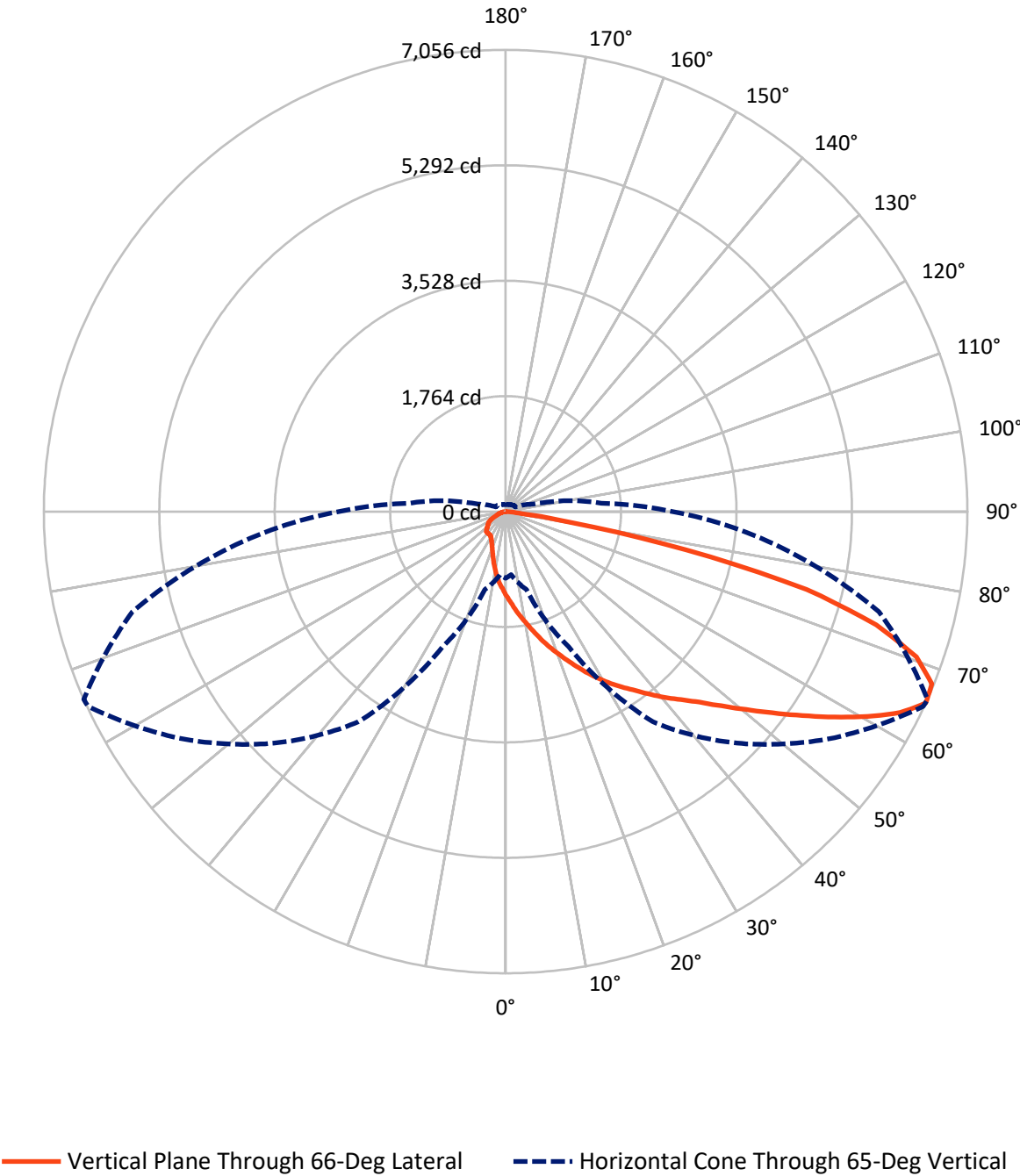


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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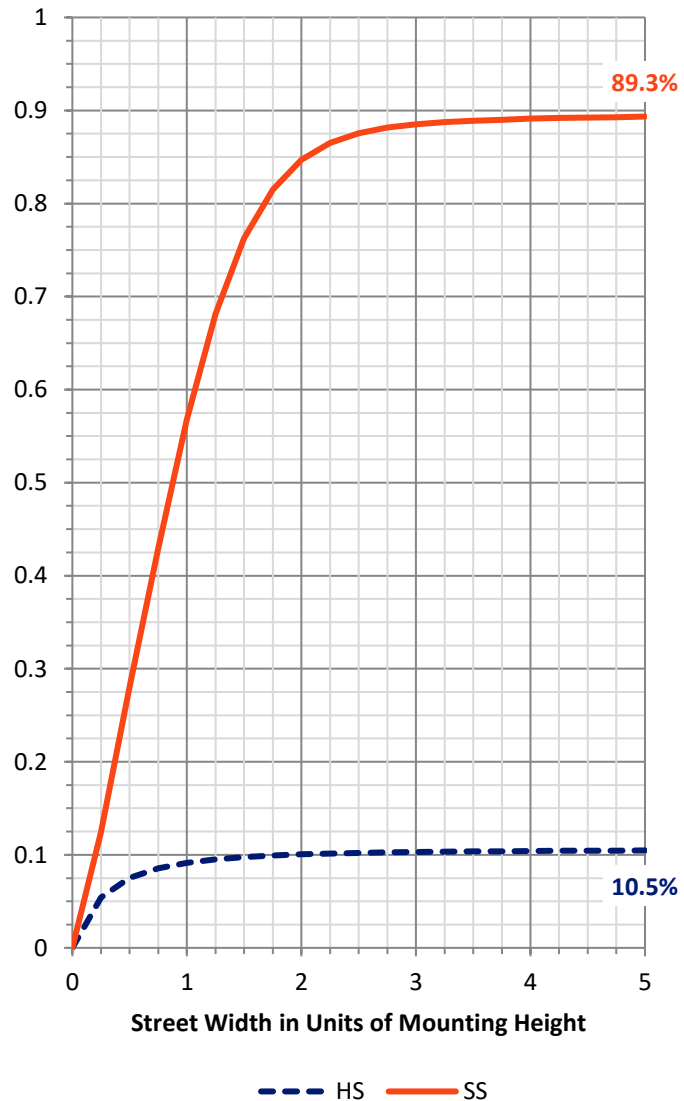
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1027.3	0.0	1027.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	8684.7	0.0	8684.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	9712.0	0.0	9712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	1.3
10°-20°	413.5	4.3
20°-30°	748.1	7.7
30°-40°	1169.9	12.0
40°-50°	1774.7	18.3
50°-60°	2254.8	23.2
60°-70°	2106.8	21.7
70°-80°	1047.1	10.8
80°-90°	70.3	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°	9712.0	100.0
0°-180°	9712.0	100.0

Coefficient of Utilization



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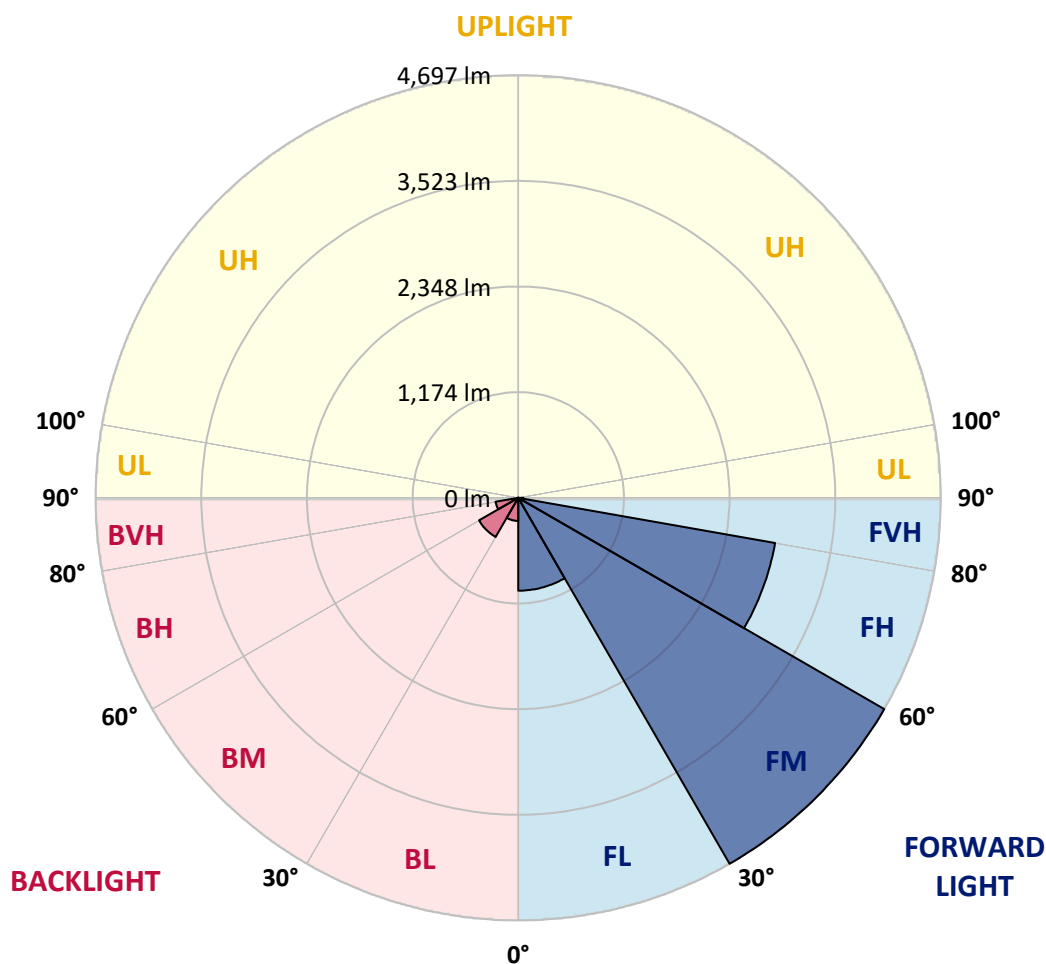
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1031.9	10.6			
FM	(30°-60°)	4696.8	48.4			
FH	(60°-80°)	2898.1	29.8			G2/5000
FVH	(80°-90°)	57.9	0.6			G1/100
BL	(0°-30°)	256.6	2.6	B1/500		
BM	(30°-60°)	502.4	5.2	B1/1000		
BH	(60°-80°)	255.8	2.6	B1/500		G1/500
BVH	(80°-90°)	12.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3
2.5°	1501.2	1513.5	1519.6	1521.6	1474.8	1454.4	1434.0	1387.2	1377.0	1350.5	1315.9
5°	1766.1	1782.4	1778.3	1770.1	1713.1	1647.9	1594.9	1507.4	1493.1	1430.0	1352.6
7.5°	2026.8	2041.0	2037.0	2006.4	1943.3	1851.6	1764.0	1635.7	1615.3	1513.5	1389.2
10°	2244.7	2257.0	2254.9	2224.4	2149.0	2037.0	1931.1	1759.9	1735.5	1590.9	1419.8
12.5°	2424.0	2440.3	2438.3	2417.9	2350.7	2228.4	2108.3	1902.5	1872.0	1684.6	1462.5
15°	2564.5	2584.9	2584.9	2576.8	2529.9	2428.1	2291.6	2059.4	2022.7	1792.5	1515.5
17.5°	2650.1	2666.4	2680.7	2694.9	2662.3	2584.9	2460.7	2216.2	2177.5	1898.5	1570.5
20°	2694.9	2711.2	2721.4	2752.0	2758.1	2719.4	2621.6	2371.0	2330.3	2018.6	1633.7
22.5°	2768.2	2782.5	2784.5	2811.0	2823.2	2833.4	2772.3	2523.8	2491.2	2151.0	1704.9
25°	2890.5	2906.8	2900.6	2912.9	2914.9	2927.1	2921.0	2699.0	2666.4	2301.8	1790.5
27.5°	3047.3	3067.7	3063.6	3051.4	3033.1	3022.9	3049.3	2876.2	2845.7	2452.5	1878.1
30°	3216.4	3240.8	3234.7	3210.3	3161.4	3118.6	3155.3	3043.2	3014.7	2607.3	1975.9
32.5°	3387.5	3416.0	3414.0	3373.2	3289.7	3216.4	3271.4	3200.1	3179.7	2774.4	2081.8
35°	3499.5	3536.2	3532.1	3507.7	3399.7	3336.6	3403.8	3361.0	3346.7	2978.1	2234.6
37.5°	3680.8	3719.5	3684.9	3623.8	3499.5	3466.9	3548.4	3542.3	3532.1	3194.0	2395.5
40°	4120.8	4177.8	4086.2	3835.6	3631.9	3603.4	3719.5	3744.0	3733.8	3407.9	2540.1
42.5°	4581.2	4666.7	4524.1	4177.8	3872.3	3768.4	3906.9	3941.5	3929.3	3591.2	2670.5
45°	4860.2	4896.9	4754.3	4485.4	4298.0	3968.0	4106.5	4163.6	4153.4	3811.2	2837.5
47.5°	5088.4	5074.1	4911.1	4729.9	4764.5	4249.1	4332.6	4444.7	4436.5	4053.6	3020.8
50°	5137.2	5104.7	5039.5	4925.4	5017.1	4534.3	4571.0	4764.5	4756.3	4322.5	3206.2
52.5°	4793.0	4750.2	4927.4	5023.2	4992.6	4742.1	4833.7	5114.8	5110.8	4613.7	3383.4
55°	3933.4	3898.8	4375.4	4870.4	4966.1	4888.7	5125.0	5479.5	5501.9	4923.4	3544.3
57.5°	3094.2	3057.5	3526.0	4487.5	4868.4	5023.2	5465.2	5897.0	5925.6	5259.5	3697.1
60°	2466.8	2411.8	2770.3	3884.5	4685.0	5127.1	5793.2	6355.4	6359.4	5567.0	3790.8
62.5°	1676.4	1615.3	2012.5	3120.6	4377.5	5143.4	6045.7	6750.5	6766.8	5797.2	3807.1
65°	1018.5	967.6	1236.4	2279.4	3923.2	5004.8	6049.8	7041.8	7056.1	5903.1	3709.3
67.5°	590.7	570.4	706.8	1419.8	3169.5	4632.1	5795.2	6997.0	7023.5	5858.3	3487.3
70°	344.2	342.2	393.1	702.8	2236.6	3892.7	5226.9	6620.2	6658.9	5624.1	3147.1
72.5°	252.6	256.7	277.0	376.8	1295.5	2802.9	4426.3	5862.4	5921.5	5165.8	2662.3
75°	199.6	201.7	220.0	256.7	680.3	1584.8	3316.2	4705.4	4752.3	4348.9	2079.7
77.5°	148.7	152.8	167.0	181.3	315.7	727.2	1865.9	2898.6	2821.2	2387.3	1004.2
80°	108.0	118.1	124.3	130.4	167.0	281.1	560.2	1010.3	1002.2	1042.9	474.6
82.5°	69.3	77.4	83.5	87.6	99.8	134.4	167.0	226.1	244.4	405.4	189.4
85°	30.6	34.6	38.7	46.9	42.8	46.9	69.3	44.8	38.7	61.1	34.6
87.5°	0.0	0.0	6.1	10.2	8.1	4.1	12.2	8.1	6.1	6.1	6.1
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°	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3
2.5°	1297.6	1275.1	1228.3	1183.5	1157.0	1122.4	1091.8	1063.3	1061.3	1053.1	1038.9
5°	1313.8	1271.1	1183.5	1100.0	1036.8	969.6	912.6	867.8	851.5	839.2	822.9
7.5°	1330.1	1262.9	1132.6	1010.3	910.5	816.8	749.6	688.5	670.2	653.9	643.7
10°	1336.3	1248.7	1073.5	910.5	780.2	680.3	609.1	564.2	547.9	539.8	533.7
12.5°	1354.6	1240.5	1018.5	816.8	666.1	574.4	523.5	497.0	490.9	484.8	478.7
15°	1379.0	1240.5	963.5	725.2	576.5	503.1	472.6	454.2	450.2	448.1	444.1
17.5°	1405.5	1240.5	910.5	647.8	511.3	456.3	433.9	423.7	421.7	419.6	417.6
20°	1442.2	1242.6	853.5	580.5	464.4	421.7	403.3	391.1	389.1	387.0	387.0
22.5°	1478.8	1246.6	798.5	529.6	433.9	395.2	372.8	360.5	356.5	356.5	356.5
25°	1525.7	1258.8	747.6	486.8	407.4	370.7	342.2	332.0	330.0	330.0	328.0
27.5°	1580.7	1273.1	702.8	454.2	380.9	342.2	313.7	303.5	299.4	299.4	297.4
30°	1639.8	1287.4	666.1	429.8	354.4	313.7	287.2	275.0	270.9	273.0	270.9
32.5°	1704.9	1307.7	637.6	413.5	330.0	289.3	264.8	250.5	248.5	248.5	246.5
35°	1814.9	1364.8	633.5	405.4	309.6	270.9	246.5	232.2	230.2	230.2	228.1
37.5°	1933.1	1430.0	651.8	401.3	293.3	254.6	232.2	218.0	215.9	215.9	215.9
40°	2032.9	1478.8	672.2	401.3	283.1	240.4	220.0	207.8	207.8	207.8	207.8
42.5°	2100.1	1482.9	668.1	401.3	275.0	230.2	211.8	199.6	199.6	201.7	199.6
45°	2199.9	1503.3	651.8	395.2	268.9	222.0	203.7	193.5	191.5	193.5	193.5
47.5°	2318.1	1540.0	635.5	370.7	266.8	213.9	197.6	185.4	183.3	185.4	183.3
50°	2430.1	1572.5	627.4	338.1	262.8	205.7	189.4	177.2	175.2	177.2	175.2
52.5°	2523.8	1586.8	613.1	315.7	252.6	197.6	181.3	169.1	165.0	167.0	167.0
55°	2599.2	1582.7	592.8	297.4	234.3	189.4	171.1	160.9	154.8	154.8	152.8
57.5°	2668.4	1584.8	574.4	279.1	213.9	177.2	163.0	150.7	142.6	140.6	138.5
60°	2694.9	1574.6	541.8	254.6	193.5	167.0	152.8	138.5	130.4	128.3	126.3
62.5°	2658.2	1537.9	499.1	211.8	175.2	154.8	142.6	128.3	120.2	118.1	116.1
65°	2554.4	1468.7	433.9	167.0	158.9	140.6	130.4	120.2	110.0	105.9	103.9
67.5°	2377.1	1368.8	352.4	134.4	140.6	128.3	122.2	110.0	97.8	93.7	91.7
70°	2124.6	1236.4	264.8	114.1	124.3	114.1	110.0	97.8	87.6	83.5	81.5
72.5°	1770.1	1022.6	185.4	97.8	108.0	99.8	95.7	87.6	77.4	71.3	71.3
75°	1338.3	733.3	122.2	83.5	89.6	85.6	79.4	73.3	67.2	63.1	61.1
77.5°	576.5	285.2	75.4	63.1	73.3	71.3	63.1	59.1	57.0	53.0	53.0
80°	248.5	116.1	46.9	46.9	53.0	50.9	48.9	44.8	44.8	42.8	40.7
82.5°	91.7	46.9	28.5	34.6	38.7	34.6	34.6	34.6	34.6	32.6	32.6
85°	22.4	14.3	14.3	20.4	22.4	20.4	22.4	20.4	20.4	20.4	18.3
87.5°	6.1	6.1	8.1	8.1	8.1	8.1	8.1	6.1	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)