

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: P842733

Luminaire Tested: **ARCH4-90-722-U-T3-HSS**

Issue Date: 5/27/2024

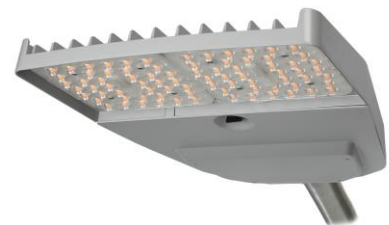
Test Information

Test Method: LM-79-08
Report Number: P842733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-90-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9496 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' 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

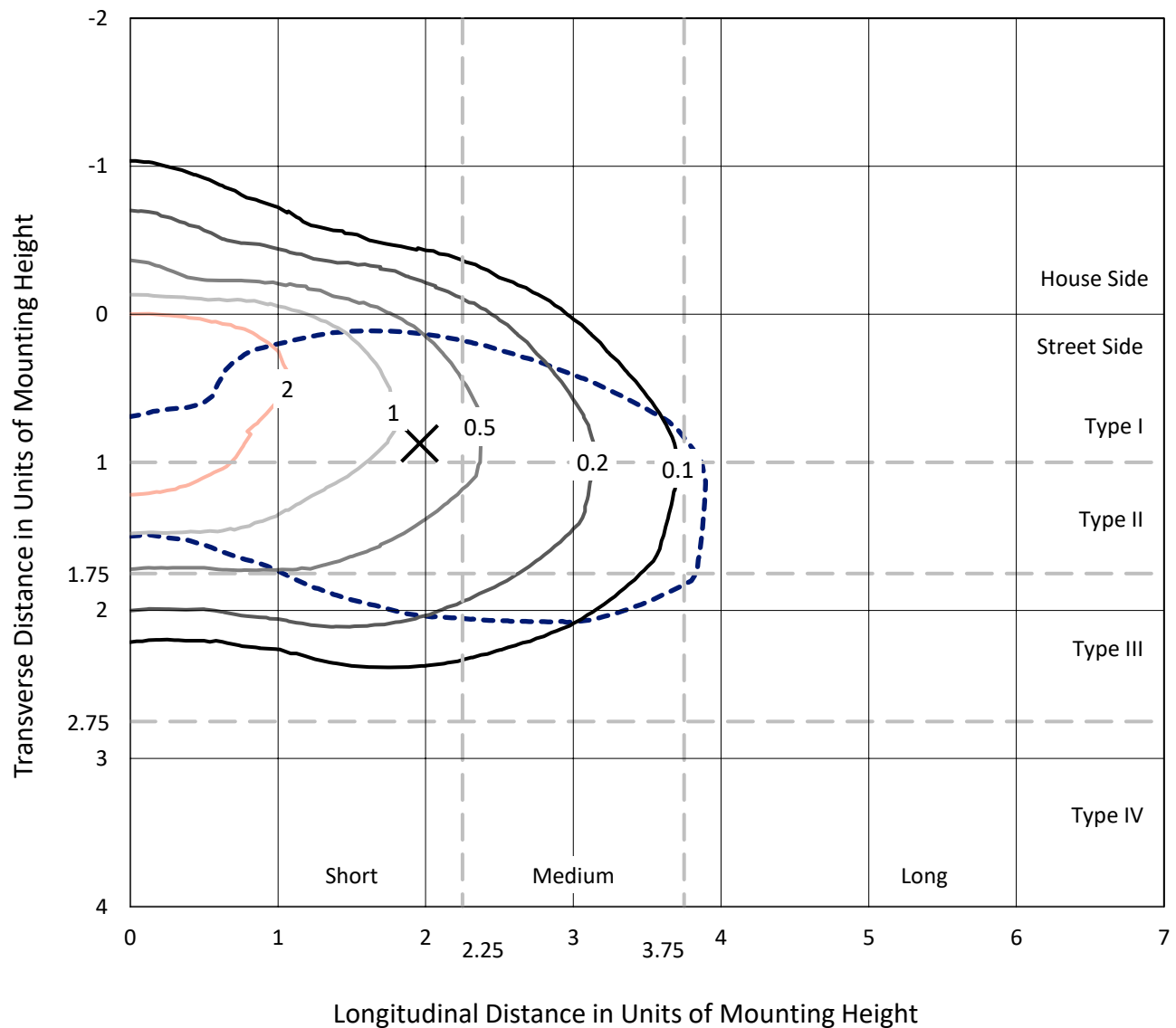


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Iso-Footcandle Lines of Horizontal Illumination

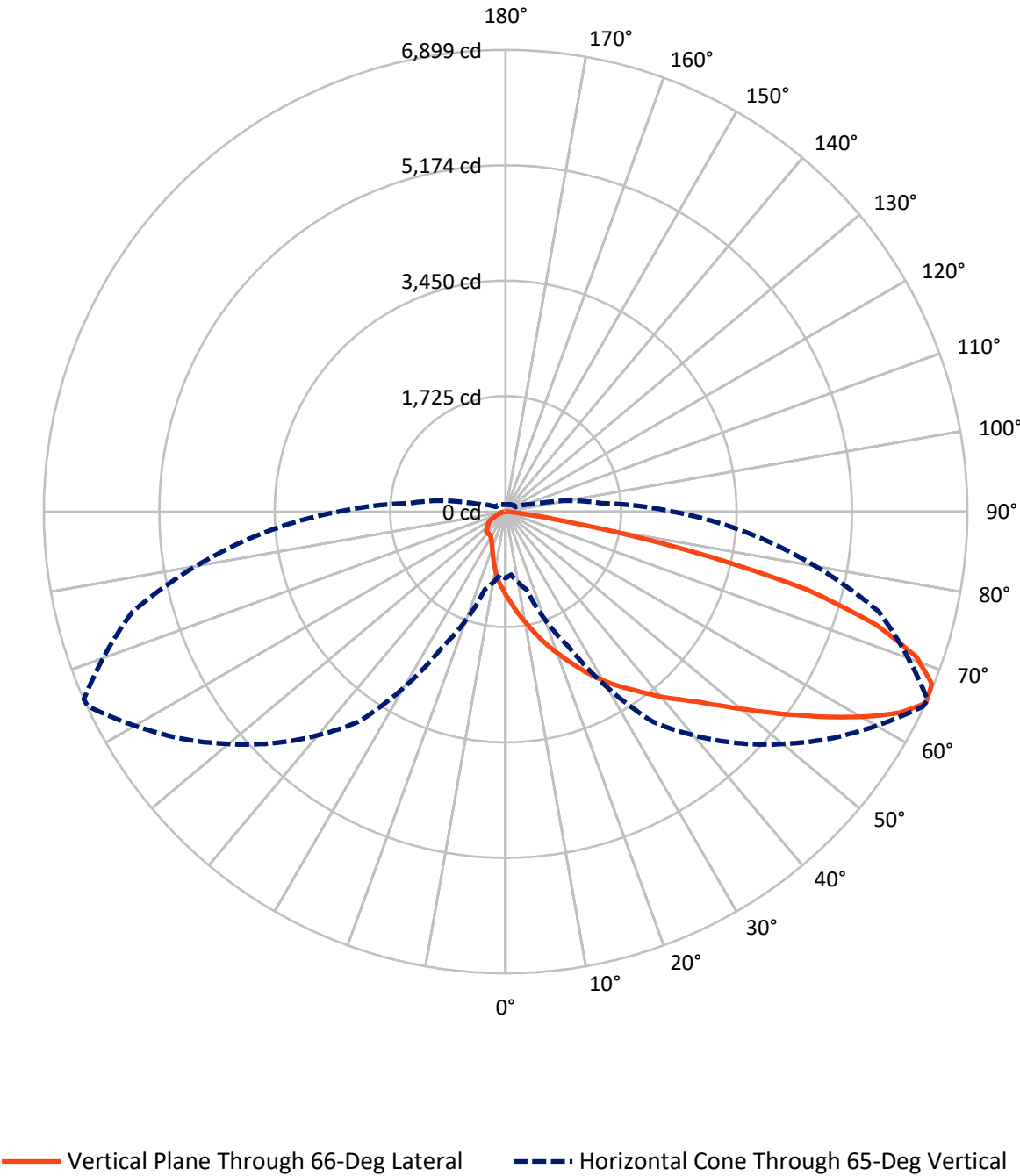
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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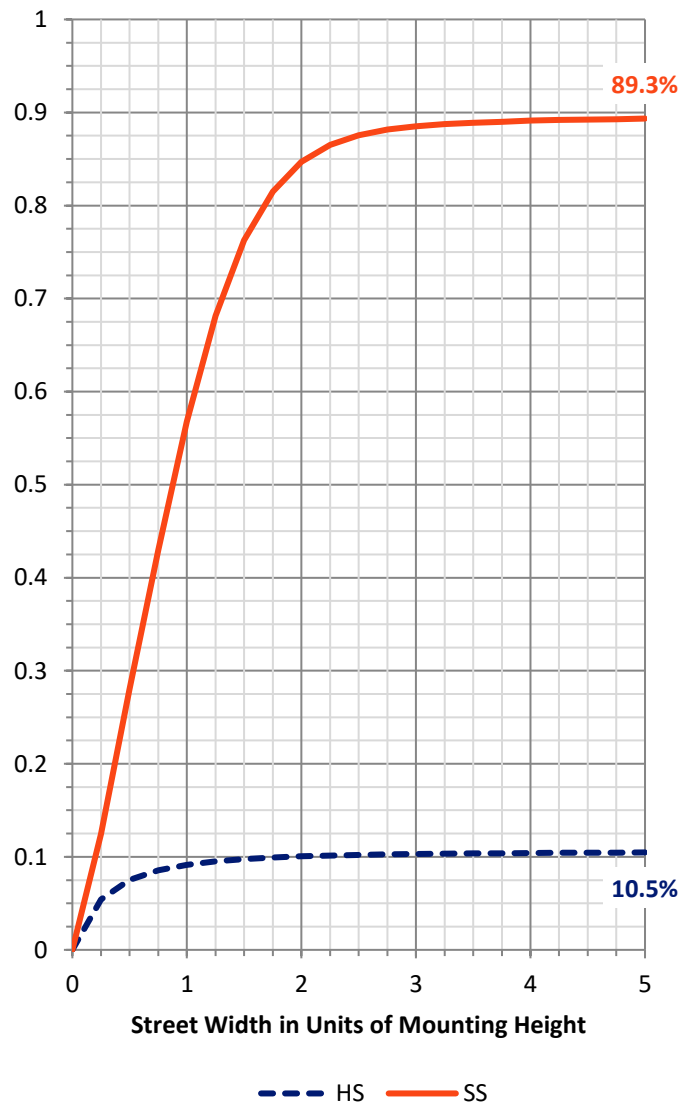
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1004.4	0.0	1004.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	8491.6	0.0	8491.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	9496.0	0.0	9496.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	1.3
10°-20°	404.3	4.3
20°-30°	731.5	7.7
30°-40°	1143.8	12.0
40°-50°	1735.2	18.3
50°-60°	2204.6	23.2
60°-70°	2060.0	21.7
70°-80°	1023.8	10.8
80°-90°	68.8	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°	9496.0	100.0
0°-180°	9496.0	100.0

Coefficient of Utilization



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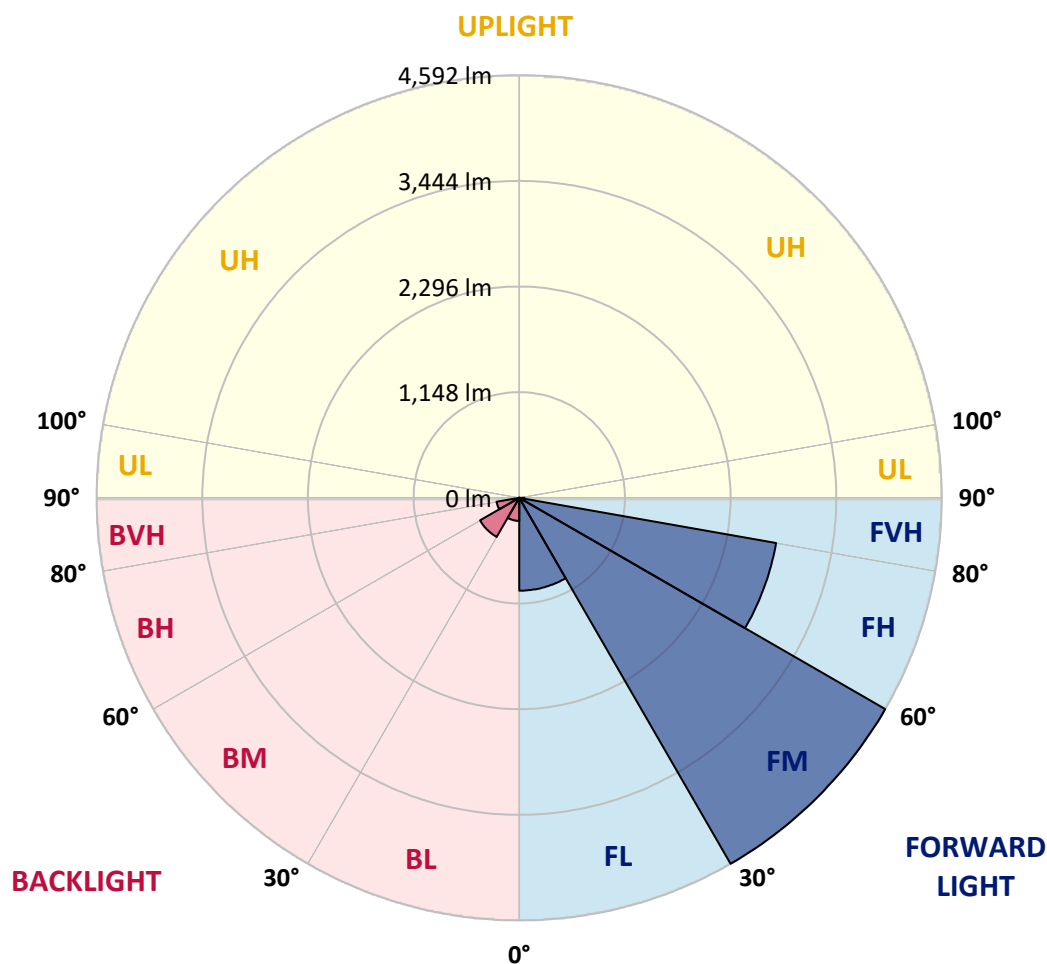
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1009.0	10.6			
FM	(30°-60°)	4592.4	48.4			
FH	(60°-80°)	2833.6	29.8			G2/5000
FVH	(80°-90°)	56.6	0.6			G1/100
BL	(0°-30°)	250.8	2.6	B1/500		
BM	(30°-60°)	491.3	5.2	B1/1000		
BH	(60°-80°)	250.1	2.6	B1/500		G1/500
BVH	(80°-90°)	12.2	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°	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7
2.5°	1467.9	1479.8	1485.8	1487.8	1442.0	1422.1	1402.1	1356.3	1346.4	1320.5	1286.6
5°	1726.8	1742.7	1738.7	1730.8	1675.0	1611.3	1559.5	1473.8	1459.9	1398.2	1322.5
7.5°	1981.7	1995.7	1991.7	1961.8	1900.1	1810.4	1724.8	1599.3	1579.4	1479.8	1358.3
10°	2194.8	2206.8	2204.8	2174.9	2101.2	1991.7	1888.1	1720.8	1696.9	1555.5	1388.2
12.5°	2370.1	2386.0	2384.0	2364.1	2298.4	2178.9	2061.4	1860.2	1830.3	1647.1	1430.0
15°	2507.5	2527.4	2527.4	2519.5	2473.7	2374.1	2240.6	2013.6	1977.7	1752.7	1481.8
17.5°	2591.2	2607.1	2621.0	2635.0	2603.1	2527.4	2405.9	2166.9	2129.1	1856.2	1535.6
20°	2635.0	2650.9	2660.9	2690.7	2696.7	2658.9	2563.3	2318.3	2278.5	1973.7	1597.3
22.5°	2706.7	2720.6	2722.6	2748.5	2760.5	2770.4	2710.7	2467.7	2435.8	2103.2	1667.0
25°	2826.2	2842.1	2836.1	2848.1	2850.1	2862.0	2856.1	2639.0	2607.1	2250.6	1750.7
27.5°	2979.5	2999.5	2995.5	2983.5	2965.6	2955.6	2981.5	2812.2	2782.4	2398.0	1836.3
30°	3144.8	3168.7	3162.8	3138.9	3091.1	3049.2	3085.1	2975.6	2947.7	2549.3	1931.9
32.5°	3312.1	3340.0	3338.0	3298.2	3216.5	3144.8	3198.6	3128.9	3109.0	2712.7	2035.5
35°	3421.7	3457.5	3453.6	3429.7	3324.1	3262.4	3328.1	3286.3	3272.3	2911.8	2184.9
37.5°	3598.9	3636.8	3602.9	3543.2	3421.7	3389.8	3469.5	3463.5	3453.6	3122.9	2342.2
40°	4029.1	4084.9	3995.3	3750.3	3551.1	3523.3	3636.8	3660.7	3650.7	3332.1	2483.6
42.5°	4479.3	4562.9	4423.5	4084.9	3786.2	3684.6	3820.0	3853.9	3841.9	3511.3	2611.1
45°	4752.1	4788.0	4648.6	4385.7	4202.4	3879.8	4015.2	4071.0	4061.0	3726.4	2774.4
47.5°	4975.2	4961.2	4801.9	4624.7	4658.5	4154.6	4236.3	4345.8	4337.9	3963.4	2953.6
50°	5023.0	4991.1	4927.4	4815.9	4905.5	4433.5	4469.3	4658.5	4650.5	4226.3	3134.9
52.5°	4686.4	4644.6	4817.8	4911.5	4881.6	4636.6	4726.2	5001.1	4997.1	4511.1	3308.2
55°	3845.9	3812.1	4278.1	4762.1	4855.7	4780.0	5011.0	5357.6	5379.5	4813.9	3465.5
57.5°	3025.3	2989.5	3447.6	4387.6	4760.1	4911.5	5343.6	5765.9	5793.8	5142.5	3614.9
60°	2411.9	2358.1	2708.7	3798.1	4580.8	5013.0	5664.3	6214.0	6218.0	5443.2	3706.5
62.5°	1639.1	1579.4	1967.8	3051.2	4280.1	5029.0	5911.3	6600.4	6616.3	5668.3	3722.4
65°	995.8	946.0	1208.9	2228.7	3836.0	4893.5	5915.3	6885.2	6899.1	5771.9	3626.8
67.5°	577.6	557.7	691.1	1388.2	3099.0	4529.1	5666.3	6841.4	6867.3	5728.0	3409.7
70°	336.6	334.6	384.4	687.1	2186.9	3806.1	5110.6	6472.9	6510.8	5499.0	3077.1
72.5°	247.0	251.0	270.9	368.5	1266.7	2740.5	4327.9	5732.0	5789.8	5050.9	2603.1
75°	195.2	197.2	215.1	251.0	665.2	1549.5	3242.4	4600.8	4646.6	4252.2	2033.5
77.5°	145.4	149.4	163.3	177.3	308.7	711.0	1824.4	2834.1	2758.5	2334.2	981.9
80°	105.6	115.5	121.5	127.5	163.3	274.9	547.7	987.9	979.9	1019.7	464.1
82.5°	67.7	75.7	81.7	85.6	97.6	131.5	163.3	221.1	239.0	396.3	185.2
85°	29.9	33.9	37.8	45.8	41.8	45.8	67.7	43.8	37.8	59.8	33.9
87.5°	0.0	0.0	6.0	10.0	8.0	4.0	12.0	8.0	6.0	6.0	6.0
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°	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7
2.5°	1268.7	1246.8	1201.0	1157.2	1131.3	1097.4	1067.5	1039.7	1037.7	1029.7	1015.8
5°	1284.6	1242.8	1157.2	1075.5	1013.8	948.0	892.3	848.5	832.5	820.6	804.6
7.5°	1300.6	1234.8	1107.4	987.9	890.3	798.7	732.9	673.2	655.3	639.3	629.4
10°	1306.5	1220.9	1049.6	890.3	762.8	665.2	595.5	551.7	535.8	527.8	521.8
12.5°	1324.5	1212.9	995.8	798.7	651.3	561.7	511.9	486.0	480.0	474.0	468.0
15°	1348.4	1212.9	942.1	709.0	563.6	491.9	462.1	444.1	440.2	438.2	434.2
17.5°	1374.3	1212.9	890.3	633.4	499.9	446.1	424.2	414.3	412.3	410.3	408.3
20°	1410.1	1214.9	834.5	567.6	454.1	412.3	394.4	382.4	380.4	378.4	378.4
22.5°	1446.0	1218.9	780.7	517.8	424.2	386.4	364.5	352.5	348.5	348.5	348.5
25°	1491.8	1230.9	730.9	476.0	398.3	362.5	334.6	324.6	322.7	322.7	320.7
27.5°	1545.5	1244.8	687.1	444.1	372.4	334.6	306.7	296.8	292.8	292.8	290.8
30°	1603.3	1258.7	651.3	420.2	346.6	306.7	280.8	268.9	264.9	266.9	264.9
32.5°	1667.0	1278.7	623.4	404.3	322.7	282.8	258.9	245.0	243.0	243.0	241.0
35°	1774.6	1334.4	619.4	396.3	302.7	264.9	241.0	227.1	225.1	225.1	223.1
37.5°	1890.1	1398.2	637.3	392.4	286.8	249.0	227.1	213.1	211.1	211.1	211.1
40°	1987.7	1446.0	657.3	392.4	276.8	235.0	215.1	203.2	203.2	203.2	203.2
42.5°	2053.4	1449.9	653.3	392.4	268.9	225.1	207.1	195.2	195.2	197.2	195.2
45°	2151.0	1469.9	637.3	386.4	262.9	217.1	199.2	189.2	187.2	189.2	189.2
47.5°	2266.5	1505.7	621.4	362.5	260.9	209.1	193.2	181.2	179.3	181.2	179.3
50°	2376.1	1537.6	613.4	330.6	256.9	201.2	185.2	173.3	171.3	173.3	171.3
52.5°	2467.7	1551.5	599.5	308.7	247.0	193.2	177.3	165.3	161.3	163.3	163.3
55°	2541.4	1547.5	579.6	290.8	229.0	185.2	167.3	157.3	151.4	151.4	149.4
57.5°	2609.1	1549.5	561.7	272.9	209.1	173.3	159.3	147.4	139.4	137.4	135.4
60°	2635.0	1539.6	529.8	249.0	189.2	163.3	149.4	135.4	127.5	125.5	123.5
62.5°	2599.1	1503.7	488.0	207.1	171.3	151.4	139.4	125.5	117.5	115.5	113.5
65°	2497.6	1436.0	424.2	163.3	155.4	137.4	127.5	117.5	107.6	103.6	101.6
67.5°	2324.3	1338.4	344.6	131.5	137.4	125.5	119.5	107.6	95.6	91.6	89.6
70°	2077.3	1208.9	258.9	111.5	121.5	111.5	107.6	95.6	85.6	81.7	79.7
72.5°	1730.8	999.8	181.2	95.6	105.6	97.6	93.6	85.6	75.7	69.7	69.7
75°	1308.5	717.0	119.5	81.7	87.6	83.7	77.7	71.7	65.7	61.7	59.8
77.5°	563.6	278.8	73.7	61.7	71.7	69.7	61.7	57.8	55.8	51.8	51.8
80°	243.0	113.5	45.8	45.8	51.8	49.8	47.8	43.8	43.8	41.8	39.8
82.5°	89.6	45.8	27.9	33.9	37.8	33.9	33.9	33.9	33.9	31.9	31.9
85°	21.9	13.9	13.9	19.9	21.9	19.9	21.9	19.9	19.9	19.9	17.9
87.5°	6.0	6.0	8.0	8.0	8.0	8.0	8.0	6.0	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)