

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: P836904

Luminaire Tested: **ARCH3-90-730-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836904
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: ARCH3-90-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

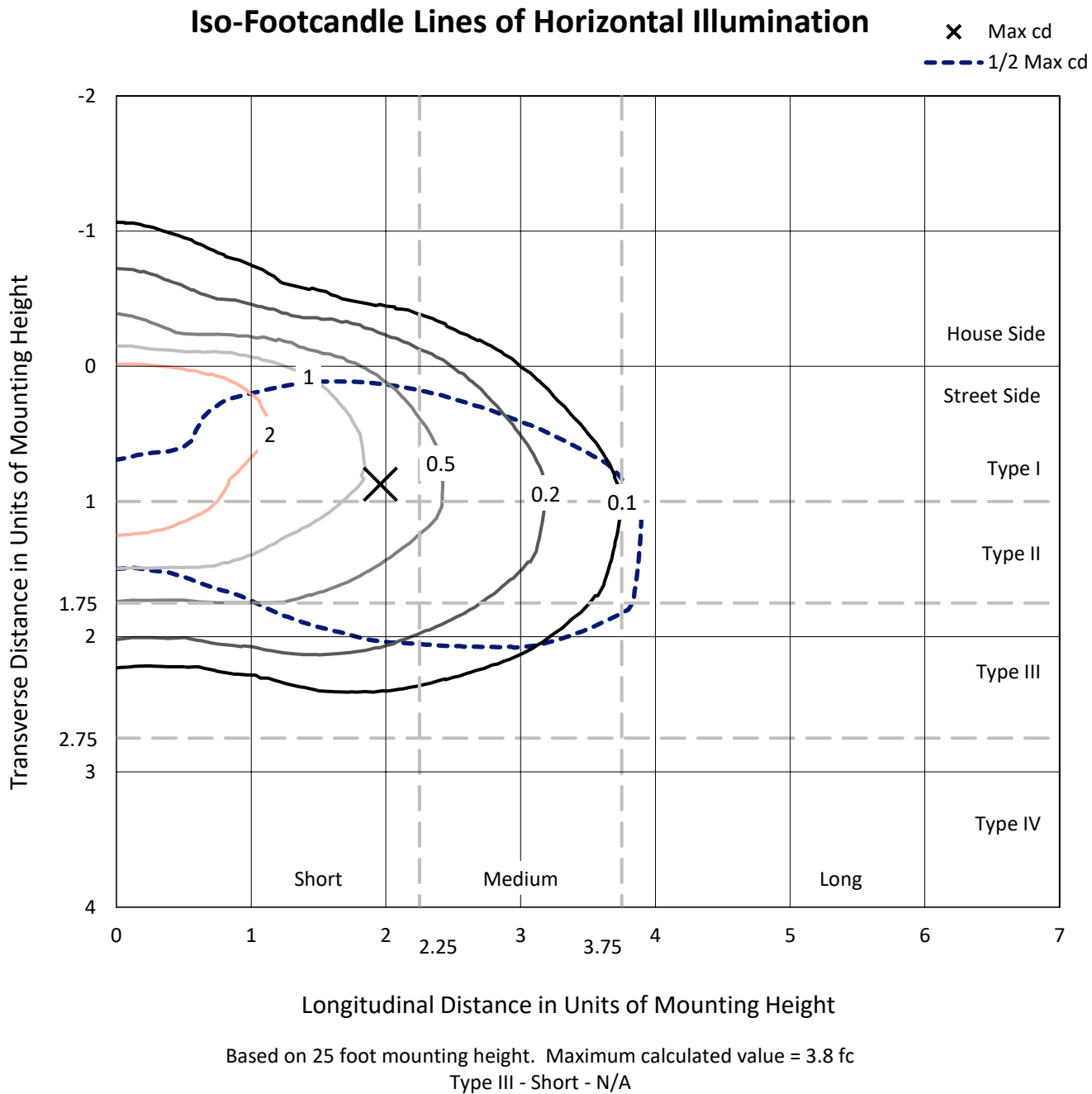
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10064 lumens
Efficiency: N/A
Efficacy: 108.1 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

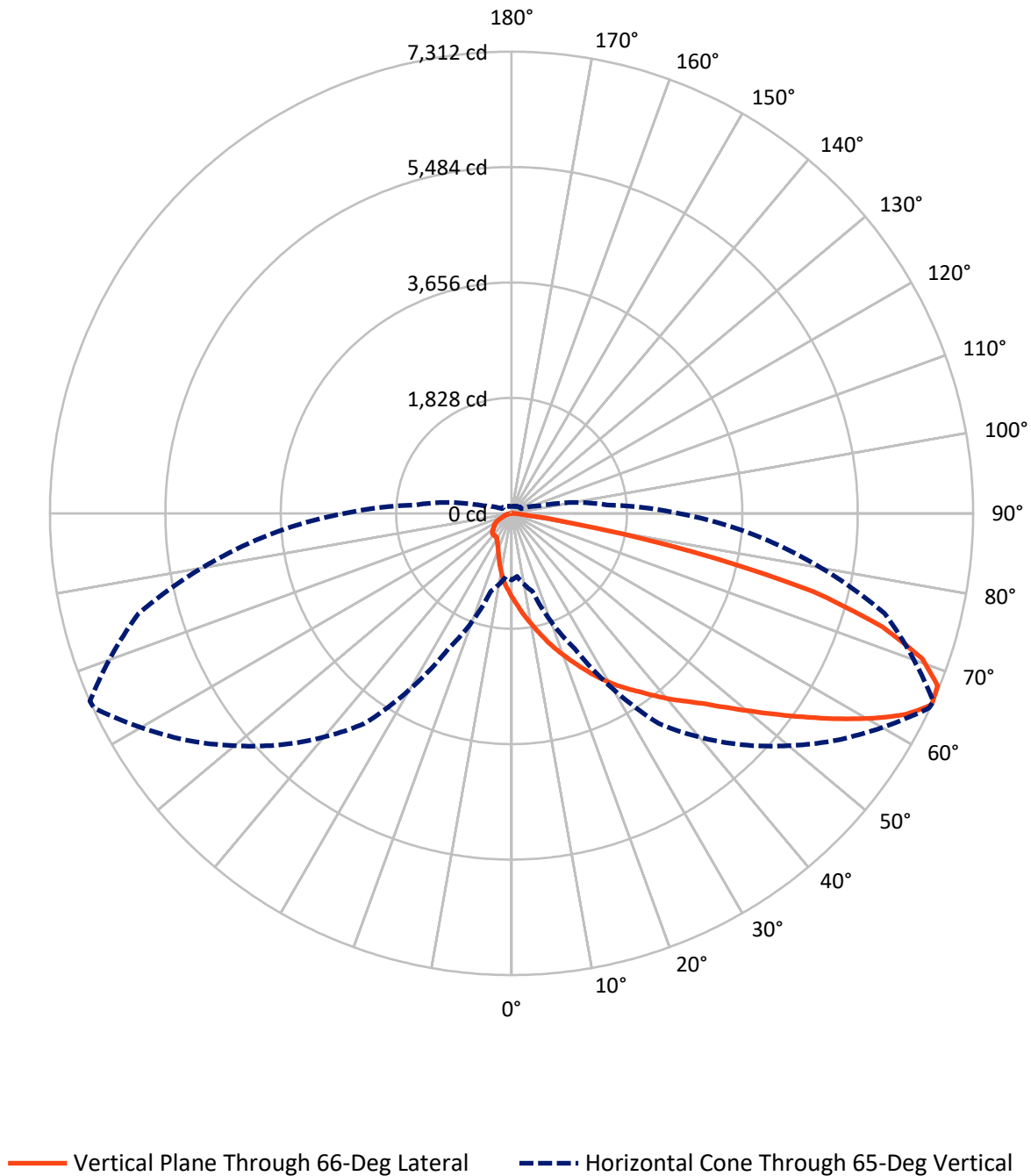


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Luminous Intensity Polar Plot



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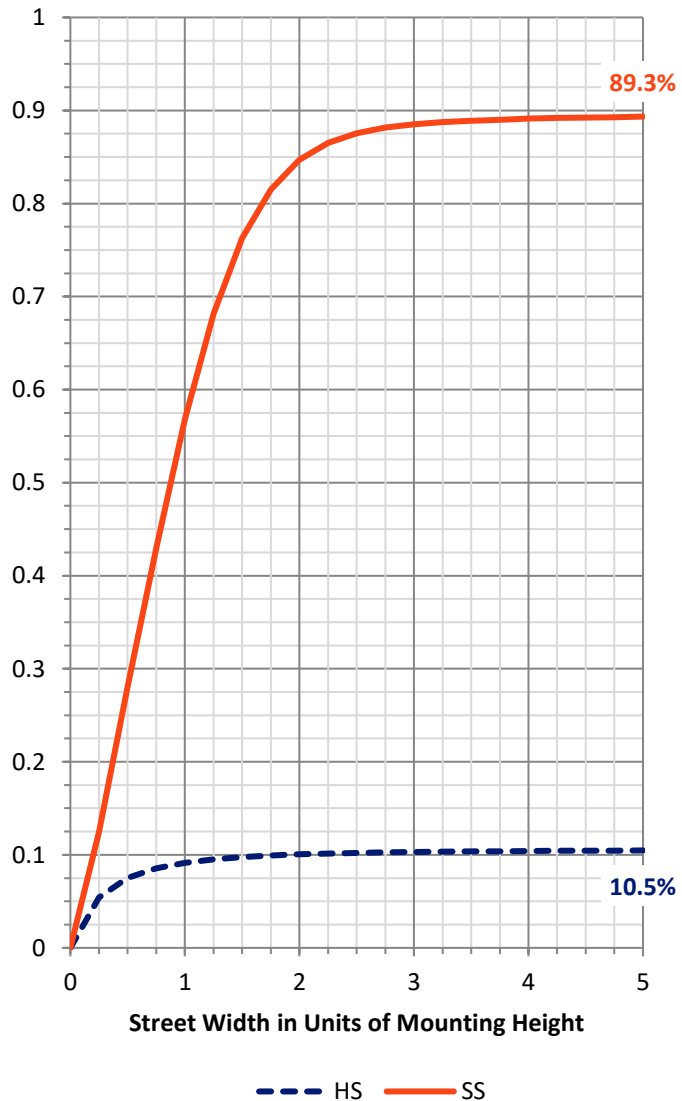
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1064.5	0.0	1064.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	8999.5	0.0	8999.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	10064.0	0.0	10064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	1.3
10°-20°	428.5	4.3
20°-30°	775.2	7.7
30°-40°	1212.2	12.0
40°-50°	1839.0	18.3
50°-60°	2336.5	23.2
60°-70°	2183.2	21.7
70°-80°	1085.0	10.8
80°-90°	72.9	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°	10064.0	100.0
0°-180°	10064.0	100.0

Coefficient of Utilization



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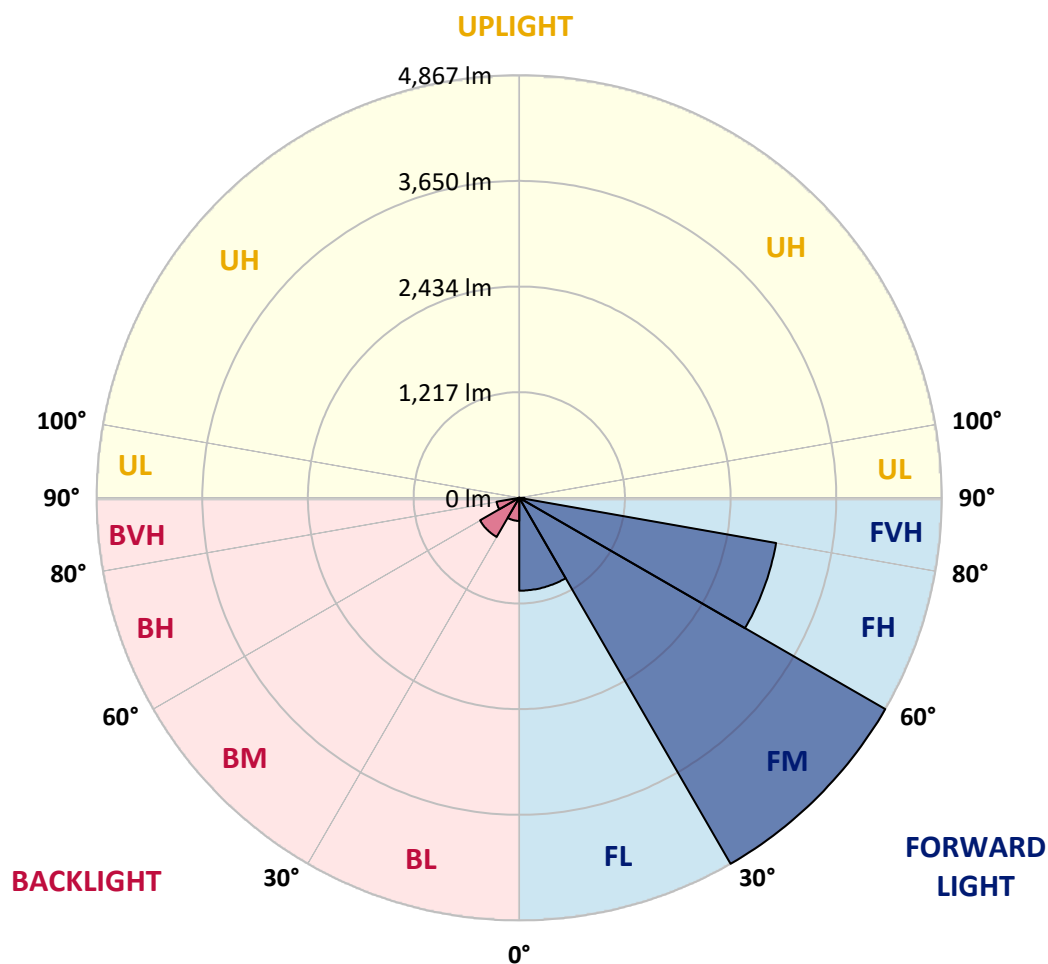
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1069.3	10.6			
FM	(30°-60°)	4867.1	48.4			
FH	(60°-80°)	3003.1	29.8			G2/5000
FVH	(80°-90°)	60.0	0.6			G1/100
BL	(0°-30°)	265.9	2.6	B1/500		
BM	(30°-60°)	520.6	5.2	B1/1000		
BH	(60°-80°)	265.1	2.6	B1/500		G1/500
BVH	(80°-90°)	12.9	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°	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1555.7	1568.3	1574.7	1576.8	1528.2	1507.1	1486.0	1437.5	1426.9	1399.5	1363.6
5°	1830.1	1847.0	1842.7	1834.3	1775.2	1707.6	1652.8	1562.0	1547.2	1481.8	1401.6
7.5°	2100.2	2115.0	2110.8	2079.1	2013.7	1918.7	1828.0	1695.0	1673.9	1568.3	1439.6
10°	2326.1	2338.8	2336.7	2305.0	2226.9	2110.8	2001.0	1823.7	1798.4	1648.5	1471.2
12.5°	2511.9	2528.7	2526.6	2505.5	2435.9	2309.2	2184.7	1971.5	1939.8	1745.6	1515.6
15°	2657.5	2678.6	2678.6	2670.2	2621.6	2516.1	2374.7	2134.0	2096.0	1857.5	1570.4
17.5°	2746.2	2763.0	2777.8	2792.6	2758.8	2678.6	2549.8	2296.6	2256.4	1967.3	1627.4
20°	2792.6	2809.5	2820.0	2851.7	2858.0	2817.9	2716.6	2457.0	2414.8	2091.8	1692.9
22.5°	2868.6	2883.4	2885.5	2912.9	2925.6	2936.1	2872.8	2615.3	2581.5	2229.0	1766.7
25°	2995.2	3012.1	3005.8	3018.4	3020.6	3033.2	3026.9	2796.8	2763.0	2385.2	1855.4
27.5°	3157.8	3178.9	3174.6	3162.0	3143.0	3132.4	3159.9	2980.5	2948.8	2541.4	1946.2
30°	3333.0	3358.3	3352.0	3326.6	3276.0	3231.6	3269.6	3153.5	3124.0	2701.8	2047.5
32.5°	3510.3	3539.8	3537.7	3495.5	3408.9	3333.0	3389.9	3316.1	3295.0	2874.9	2157.2
35°	3626.4	3664.3	3660.1	3634.8	3522.9	3457.5	3527.1	3482.8	3468.0	3086.0	2315.5
37.5°	3814.2	3854.3	3818.4	3755.1	3626.4	3592.6	3677.0	3670.7	3660.1	3309.7	2482.3
40°	4270.1	4329.3	4234.3	3974.6	3763.6	3734.0	3854.3	3879.7	3869.1	3531.4	2632.2
42.5°	4747.2	4835.8	4688.1	4329.3	4012.6	3905.0	4048.5	4084.4	4071.7	3721.3	2767.3
45°	5036.4	5074.4	4926.6	4648.0	4453.8	4111.8	4255.4	4314.5	4303.9	3949.3	2940.3
47.5°	5272.8	5258.0	5089.1	4901.3	4937.2	4403.1	4489.7	4605.8	4597.3	4200.5	3130.3
50°	5323.4	5289.7	5222.1	5103.9	5198.9	4698.6	4736.6	4937.2	4928.7	4479.1	3322.4
52.5°	4966.7	4922.4	5106.0	5205.2	5173.6	4913.9	5008.9	5300.2	5296.0	4781.0	3506.0
55°	4076.0	4040.1	4534.0	5046.9	5146.1	5065.9	5310.8	5678.1	5701.3	5101.8	3672.8
57.5°	3206.3	3168.3	3653.8	4650.1	5044.8	5205.2	5663.3	6110.8	6140.3	5450.1	3831.1
60°	2556.2	2499.2	2870.7	4025.3	4854.8	5312.9	6003.1	6585.7	6589.9	5768.8	3928.2
62.5°	1737.2	1673.9	2085.5	3233.7	4536.1	5329.8	6264.9	6995.2	7012.1	6007.3	3945.1
65°	1055.4	1002.6	1281.3	2362.0	4065.4	5186.2	6269.1	7297.0	7311.8	6117.1	3843.8
67.5°	612.1	591.0	732.4	1471.2	3284.4	4800.0	6005.2	7250.6	7278.0	6070.7	3613.7
70°	356.7	354.6	407.4	728.2	2317.7	4033.7	5416.3	6860.1	6900.2	5827.9	3261.2
72.5°	261.7	266.0	287.1	390.5	1342.5	2904.5	4586.8	6074.9	6136.1	5353.0	2758.8
75°	206.9	209.0	228.0	266.0	705.0	1642.2	3436.4	4875.9	4924.5	4506.6	2155.1
77.5°	154.1	158.3	173.1	187.9	327.2	753.6	1933.5	3003.7	2923.5	2473.9	1040.6
80°	111.9	122.4	128.8	135.1	173.1	291.3	580.5	1047.0	1038.5	1080.7	491.8
82.5°	71.8	80.2	86.5	90.8	103.4	139.3	173.1	234.3	253.3	420.0	196.3
85°	31.7	35.9	40.1	48.5	44.3	48.5	71.8	46.4	40.1	63.3	35.9
87.5°	0.0	0.0	6.3	10.6	8.4	4.2	12.7	8.4	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°	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1344.6	1321.4	1272.8	1226.4	1198.9	1163.1	1131.4	1101.8	1099.7	1091.3	1076.5
5°	1361.5	1317.1	1226.4	1139.8	1074.4	1004.7	945.6	899.2	882.3	869.6	852.8
7.5°	1378.4	1308.7	1173.6	1047.0	943.5	846.4	776.8	713.5	694.5	677.6	667.0
10°	1384.7	1293.9	1112.4	943.5	808.4	705.0	631.1	584.7	567.8	559.4	553.0
12.5°	1403.7	1285.5	1055.4	846.4	690.2	595.2	542.5	515.0	508.7	502.4	496.0
15°	1429.0	1285.5	998.4	751.4	597.4	521.4	489.7	470.7	466.5	464.4	460.2
17.5°	1456.5	1285.5	943.5	671.2	529.8	472.8	449.6	439.0	436.9	434.8	432.7
20°	1494.4	1287.6	884.4	601.6	481.3	436.9	417.9	405.3	403.2	401.1	401.1
22.5°	1532.4	1291.8	827.4	548.8	449.6	409.5	386.3	373.6	369.4	369.4	369.4
25°	1581.0	1304.5	774.7	504.5	422.2	384.2	354.6	344.1	341.9	341.9	339.8
27.5°	1638.0	1319.3	728.2	470.7	394.7	354.6	325.1	314.5	310.3	310.3	308.2
30°	1699.2	1334.0	690.2	445.4	367.3	325.1	297.6	285.0	280.7	282.8	280.7
32.5°	1766.7	1355.1	660.7	428.5	341.9	299.7	274.4	259.6	257.5	257.5	255.4
35°	1880.7	1414.2	656.5	420.0	320.8	280.7	255.4	240.6	238.5	238.5	236.4
37.5°	2003.1	1481.8	675.5	415.8	304.0	263.9	240.6	225.9	223.7	223.7	223.7
40°	2106.6	1532.4	696.6	415.8	293.4	249.1	228.0	215.3	215.3	215.3	215.3
42.5°	2176.2	1536.7	692.3	415.8	285.0	238.5	219.5	206.9	206.9	209.0	206.9
45°	2279.7	1557.8	675.5	409.5	278.6	230.1	211.1	200.5	198.4	200.5	200.5
47.5°	2402.1	1595.8	658.6	384.2	276.5	221.6	204.7	192.1	190.0	192.1	190.0
50°	2518.2	1629.5	650.1	350.4	272.3	213.2	196.3	183.6	181.5	183.6	181.5
52.5°	2615.3	1644.3	635.4	327.2	261.7	204.7	187.9	175.2	171.0	173.1	173.1
55°	2693.4	1640.1	614.2	308.2	242.7	196.3	177.3	166.8	160.4	160.4	158.3
57.5°	2765.1	1642.2	595.2	289.2	221.6	183.6	168.9	156.2	147.8	145.6	143.5
60°	2792.6	1631.6	561.5	263.9	200.5	173.1	158.3	143.5	135.1	133.0	130.9
62.5°	2754.6	1593.7	517.1	219.5	181.5	160.4	147.8	133.0	124.5	122.4	120.3
65°	2646.9	1521.9	449.6	173.1	164.6	145.6	135.1	124.5	114.0	109.8	107.7
67.5°	2463.3	1418.5	365.2	139.3	145.6	133.0	126.6	114.0	101.3	97.1	95.0
70°	2201.6	1281.3	274.4	118.2	128.8	118.2	114.0	101.3	90.8	86.5	84.4
72.5°	1834.3	1059.6	192.1	101.3	111.9	103.4	99.2	90.8	80.2	73.9	73.9
75°	1386.8	759.9	126.6	86.5	92.9	88.7	82.3	76.0	69.7	65.4	63.3
77.5°	597.4	295.5	78.1	65.4	76.0	73.9	65.4	61.2	59.1	54.9	54.9
80°	257.5	120.3	48.5	48.5	54.9	52.8	50.7	46.4	46.4	44.3	42.2
82.5°	95.0	48.5	29.6	35.9	40.1	35.9	35.9	35.9	35.9	33.8	33.8
85°	23.2	14.8	14.8	21.1	23.2	21.1	23.2	21.1	21.1	21.1	19.0
87.5°	6.3	6.3	8.4	8.4	8.4	8.4	8.4	6.3	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)