

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: P836760

Luminaire Tested: **ARCH3-70-730-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836760
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: ARCH3-70-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8165 lumens
Efficiency: N/A
Efficacy: 111.7 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): 73.1
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

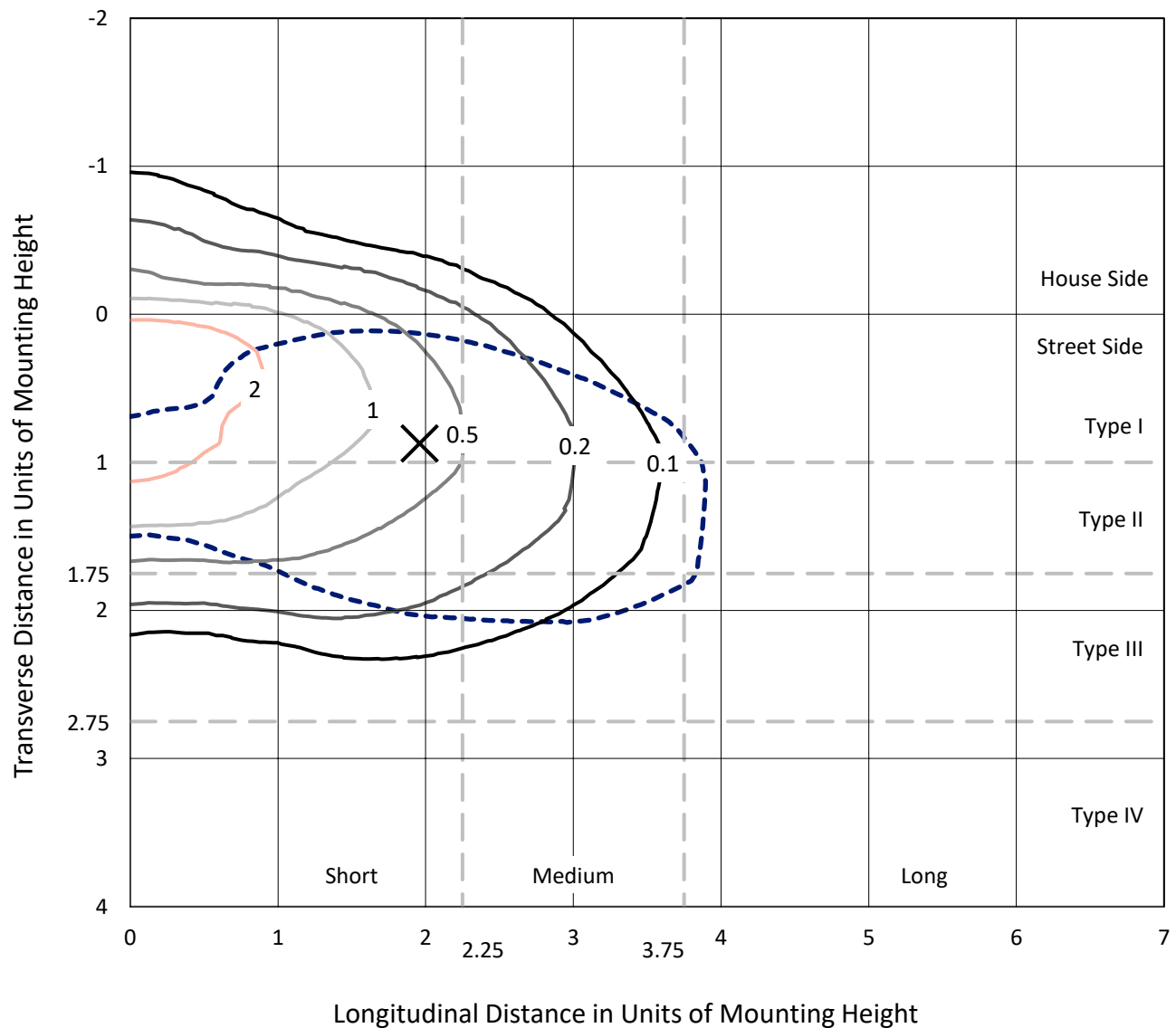


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

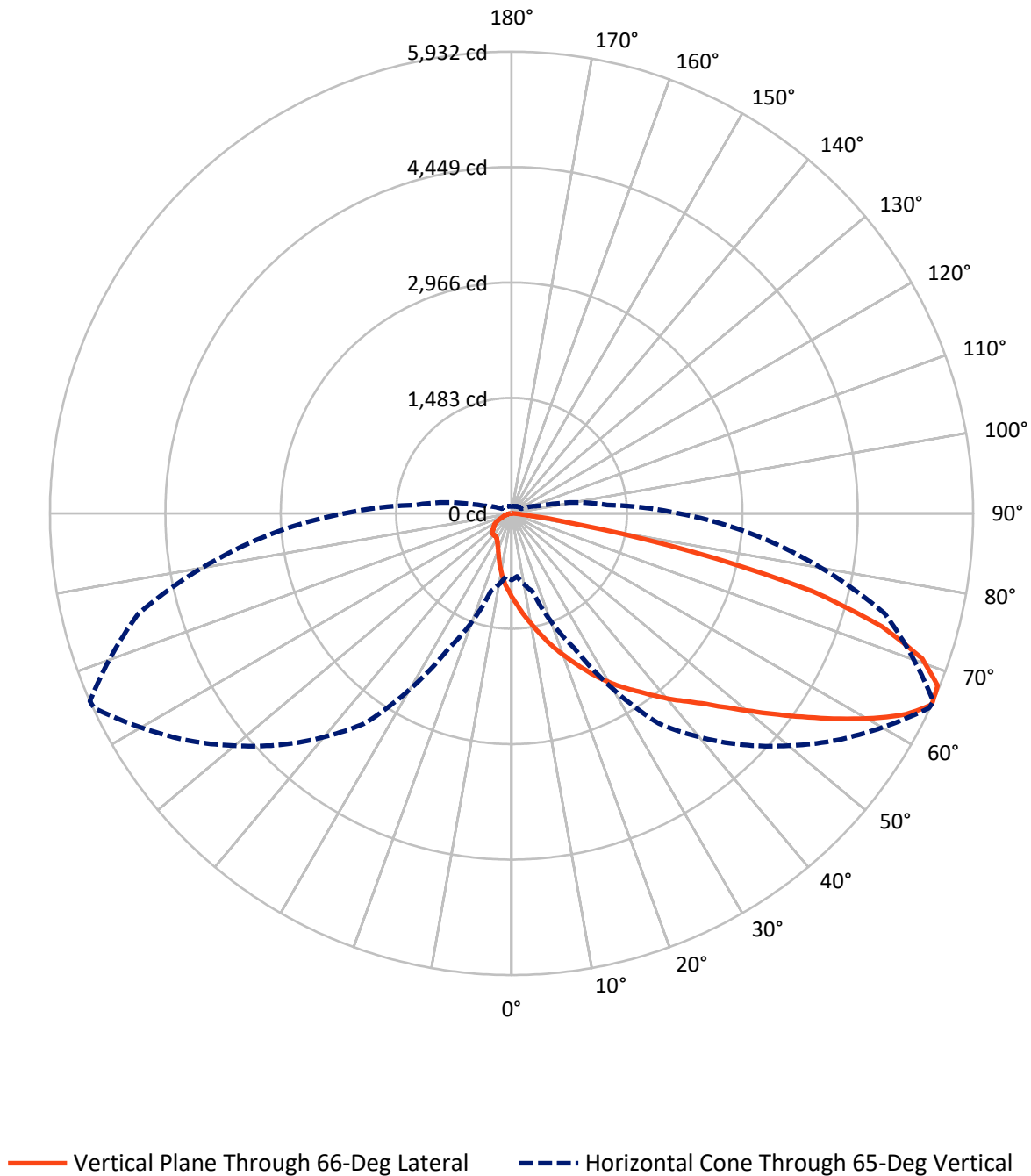


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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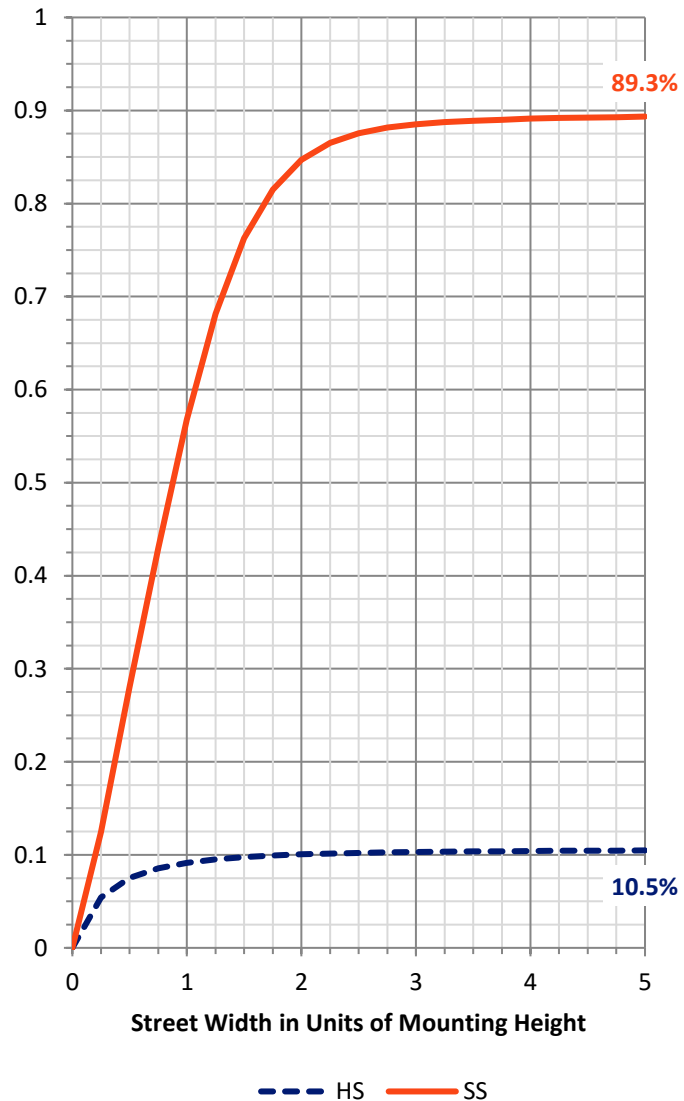
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	863.6	0.0	863.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	7301.4	0.0	7301.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	8165.0	0.0	8165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	1.3
10°-20°	347.6	4.3
20°-30°	628.9	7.7
30°-40°	983.5	12.0
40°-50°	1492.0	18.3
50°-60°	1895.6	23.2
60°-70°	1771.3	21.7
70°-80°	880.3	10.8
80°-90°	59.1	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°	8165.0	100.0
0°-180°	8165.0	100.0

Coefficient of Utilization



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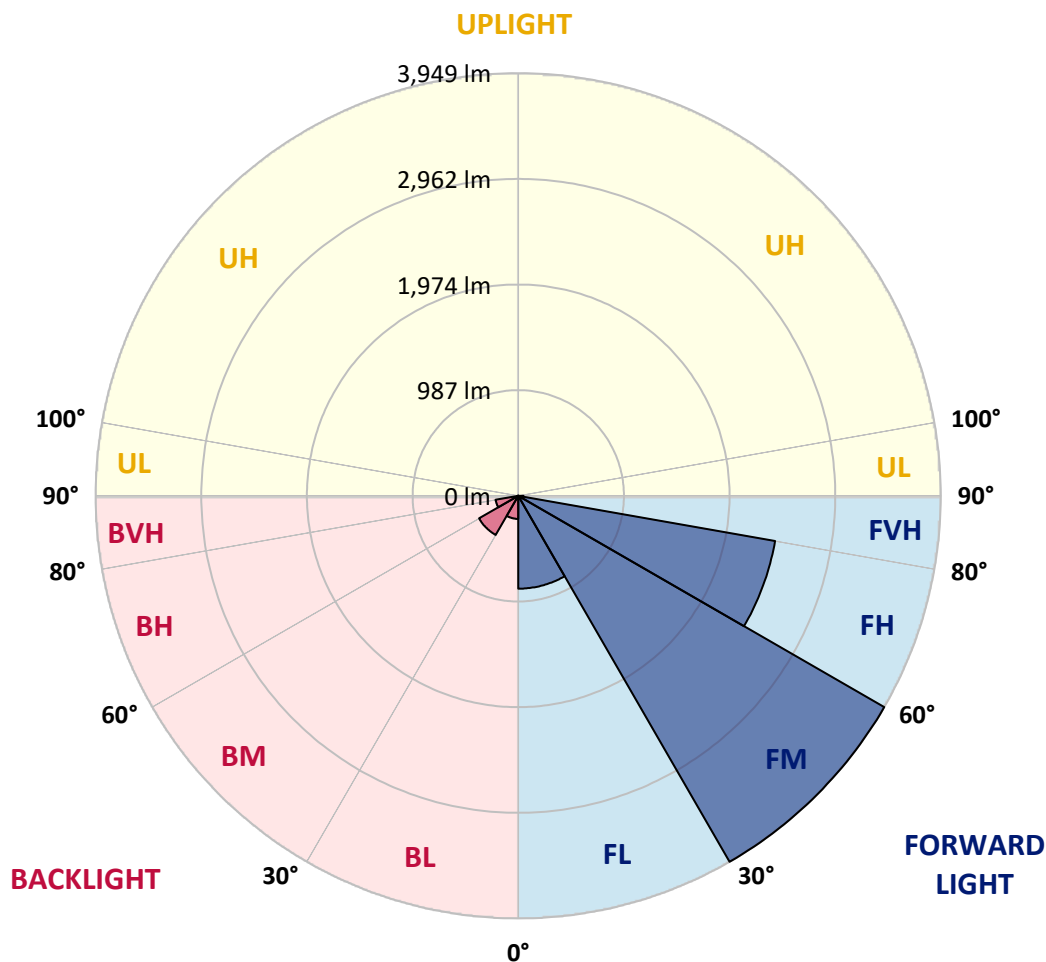
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	867.5	10.6			
FM	(30°-60°)	3948.7	48.4			
FH	(60°-80°)	2436.5	29.8			G2/5000
FVH	(80°-90°)	48.7	0.6			G1/100
BL	(0°-30°)	215.7	2.6	B1/500		
BM	(30°-60°)	422.4	5.2	B1/1000		
BH	(60°-80°)	215.1	2.6	B1/500		G1/500
BVH	(80°-90°)	10.5	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°	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6
2.5°	1262.1	1272.4	1277.5	1279.2	1239.9	1222.7	1205.6	1166.2	1157.7	1135.4	1106.3
5°	1484.7	1498.4	1495.0	1488.2	1440.2	1385.4	1340.9	1267.3	1255.3	1202.2	1137.1
7.5°	1703.9	1715.9	1712.5	1686.8	1633.7	1556.7	1483.0	1375.1	1358.0	1272.4	1167.9
10°	1887.2	1897.5	1895.7	1870.1	1806.7	1712.5	1623.5	1479.6	1459.1	1337.5	1193.6
12.5°	2037.9	2051.6	2049.9	2032.7	1976.2	1873.5	1772.4	1599.5	1573.8	1416.2	1229.6
15°	2156.0	2173.2	2173.2	2166.3	2126.9	2041.3	1926.6	1731.3	1700.5	1507.0	1274.1
17.5°	2228.0	2241.7	2253.7	2265.6	2238.2	2173.2	2068.7	1863.2	1830.7	1596.1	1320.3
20°	2265.6	2279.3	2287.9	2313.6	2318.7	2286.2	2204.0	1993.4	1959.1	1697.1	1373.4
22.5°	2327.3	2339.3	2341.0	2363.3	2373.5	2382.1	2330.7	2121.8	2094.4	1808.4	1433.4
25°	2430.0	2443.7	2438.6	2448.9	2450.6	2460.9	2455.7	2269.1	2241.7	1935.1	1505.3
27.5°	2561.9	2579.0	2575.6	2565.3	2549.9	2541.4	2563.6	2418.1	2392.4	2061.9	1578.9
30°	2704.1	2724.6	2719.5	2698.9	2657.8	2621.9	2652.7	2558.5	2534.5	2192.0	1661.1
32.5°	2847.9	2871.9	2870.2	2835.9	2765.7	2704.1	2750.3	2690.4	2673.2	2332.4	1750.2
35°	2942.1	2972.9	2969.5	2948.9	2858.2	2805.1	2861.6	2825.6	2813.7	2503.7	1878.6
37.5°	3094.5	3127.0	3097.9	3046.6	2942.1	2914.7	2983.2	2978.1	2969.5	2685.2	2013.9
40°	3464.4	3512.4	3435.3	3224.7	3053.4	3029.4	3127.0	3147.6	3139.0	2865.0	2135.5
42.5°	3851.4	3923.4	3803.5	3512.4	3255.5	3168.1	3284.6	3313.7	3303.4	3019.2	2245.1
45°	4086.0	4116.9	3997.0	3770.9	3613.4	3336.0	3452.4	3500.4	3491.8	3204.1	2385.5
47.5°	4277.8	4265.9	4128.9	3976.4	4005.6	3572.3	3642.5	3736.7	3729.8	3407.9	2539.7
50°	4318.9	4291.5	4236.7	4140.8	4217.9	3812.0	3842.9	4005.6	3998.7	3633.9	2695.5
52.5°	4029.5	3993.6	4142.6	4223.0	4197.4	3986.7	4063.8	4300.1	4296.7	3878.8	2844.5
55°	3306.9	3277.7	3678.5	4094.6	4175.1	4110.0	4308.7	4606.6	4625.5	4139.1	2979.8
57.5°	2601.3	2570.5	2964.4	3772.7	4092.9	4223.0	4594.7	4957.7	4981.7	4421.7	3108.2
60°	2073.8	2027.6	2329.0	3265.8	3938.8	4310.4	4870.4	5343.0	5346.5	4680.3	3187.0
62.5°	1409.4	1358.0	1692.0	2623.6	3680.2	4324.1	5082.7	5675.3	5689.0	4873.8	3200.7
65°	856.3	813.4	1039.5	1916.3	3298.3	4207.6	5086.2	5920.1	5932.1	4962.9	3118.5
67.5°	496.6	479.5	594.2	1193.6	2664.7	3894.2	4872.1	5882.5	5904.7	4925.2	2931.8
70°	289.4	287.7	330.5	590.8	1880.3	3272.6	4394.3	5565.7	5598.2	4728.2	2645.8
72.5°	212.4	215.8	232.9	316.8	1089.2	2356.4	3721.3	4928.6	4978.3	4342.9	2238.2
75°	167.8	169.5	185.0	215.8	572.0	1332.3	2788.0	3955.9	3995.3	3656.2	1748.5
77.5°	125.0	128.4	140.4	152.4	265.4	611.4	1568.7	2436.9	2371.8	2007.1	844.3
80°	90.8	99.3	104.5	109.6	140.4	236.3	470.9	849.4	842.6	876.8	399.0
82.5°	58.2	65.1	70.2	73.6	83.9	113.0	140.4	190.1	205.5	340.8	159.3
85°	25.7	29.1	32.5	39.4	36.0	39.4	58.2	37.7	32.5	51.4	29.1
87.5°	0.0	0.0	5.1	8.6	6.9	3.4	10.3	6.9	5.1	5.1	5.1
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°	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6
2.5°	1090.9	1072.0	1032.6	995.0	972.7	943.6	917.9	893.9	892.2	885.4	873.4
5°	1104.6	1068.6	995.0	924.8	871.7	815.2	767.2	729.5	715.8	705.6	691.9
7.5°	1118.3	1061.8	952.2	849.4	765.5	686.7	630.2	578.8	563.4	549.7	541.2
10°	1123.4	1049.8	902.5	765.5	655.9	572.0	512.0	474.4	460.7	453.8	448.7
12.5°	1138.8	1042.9	856.3	686.7	560.0	482.9	440.1	417.9	412.7	407.6	402.4
15°	1159.4	1042.9	810.0	609.7	484.6	423.0	397.3	381.9	378.5	376.8	373.3
17.5°	1181.6	1042.9	765.5	544.6	429.8	383.6	364.8	356.2	354.5	352.8	351.1
20°	1212.5	1044.6	717.5	488.1	390.5	354.5	339.1	328.8	327.1	325.4	325.4
22.5°	1243.3	1048.1	671.3	445.3	364.8	332.2	313.4	303.1	299.7	299.7	299.7
25°	1282.7	1058.3	628.5	409.3	342.5	311.7	287.7	279.1	277.4	277.4	275.7
27.5°	1328.9	1070.3	590.8	381.9	320.2	287.7	263.7	255.2	251.7	251.7	250.0
30°	1378.6	1082.3	560.0	361.3	298.0	263.7	241.5	231.2	227.8	229.5	227.8
32.5°	1433.4	1099.4	536.0	347.6	277.4	243.2	222.6	210.6	208.9	208.9	207.2
35°	1525.8	1147.4	532.6	340.8	260.3	227.8	207.2	195.2	193.5	193.5	191.8
37.5°	1625.2	1202.2	548.0	337.4	246.6	214.1	195.2	183.2	181.5	181.5	181.5
40°	1709.1	1243.3	565.1	337.4	238.0	202.1	185.0	174.7	174.7	174.7	174.7
42.5°	1765.6	1246.7	561.7	337.4	231.2	193.5	178.1	167.8	167.8	169.5	167.8
45°	1849.5	1263.8	548.0	332.2	226.1	186.7	171.3	162.7	161.0	162.7	162.7
47.5°	1948.8	1294.7	534.3	311.7	224.3	179.8	166.1	155.8	154.1	155.8	154.1
50°	2043.0	1322.1	527.5	284.3	220.9	173.0	159.3	149.0	147.3	149.0	147.3
52.5°	2121.8	1334.0	515.5	265.4	212.4	166.1	152.4	142.1	138.7	140.4	140.4
55°	2185.2	1330.6	498.3	250.0	196.9	159.3	143.9	135.3	130.2	130.2	128.4
57.5°	2243.4	1332.3	482.9	234.6	179.8	149.0	137.0	126.7	119.9	118.2	116.5
60°	2265.6	1323.8	455.5	214.1	162.7	140.4	128.4	116.5	109.6	107.9	106.2
62.5°	2234.8	1292.9	419.6	178.1	147.3	130.2	119.9	107.9	101.0	99.3	97.6
65°	2147.5	1234.7	364.8	140.4	133.6	118.2	109.6	101.0	92.5	89.1	87.3
67.5°	1998.5	1150.8	296.3	113.0	118.2	107.9	102.8	92.5	82.2	78.8	77.1
70°	1786.1	1039.5	222.6	95.9	104.5	95.9	92.5	82.2	73.6	70.2	68.5
72.5°	1488.2	859.7	155.8	82.2	90.8	83.9	80.5	73.6	65.1	59.9	59.9
75°	1125.1	616.5	102.8	70.2	75.4	71.9	66.8	61.7	56.5	53.1	51.4
77.5°	484.6	239.8	63.4	53.1	61.7	59.9	53.1	49.7	48.0	44.5	44.5
80°	208.9	97.6	39.4	39.4	44.5	42.8	41.1	37.7	37.7	36.0	34.3
82.5°	77.1	39.4	24.0	29.1	32.5	29.1	29.1	29.1	29.1	27.4	27.4
85°	18.8	12.0	12.0	17.1	18.8	17.1	18.8	17.1	17.1	17.1	15.4
87.5°	5.1	5.1	6.9	6.9	6.9	6.9	6.9	5.1	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)