

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: P841073

Luminaire Tested: **ARCH4-130-722-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13406 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

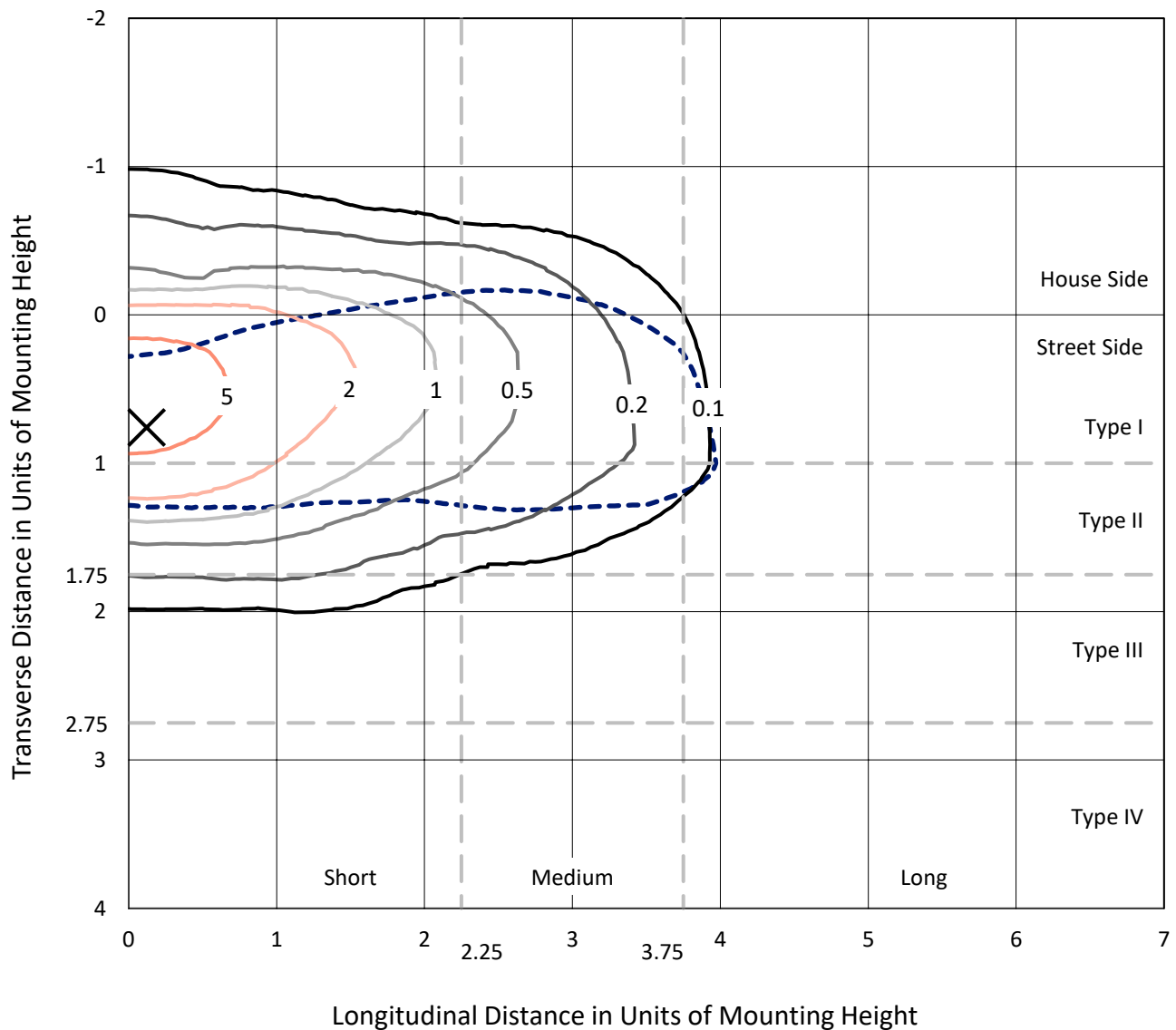
Input Watts (W): 132
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

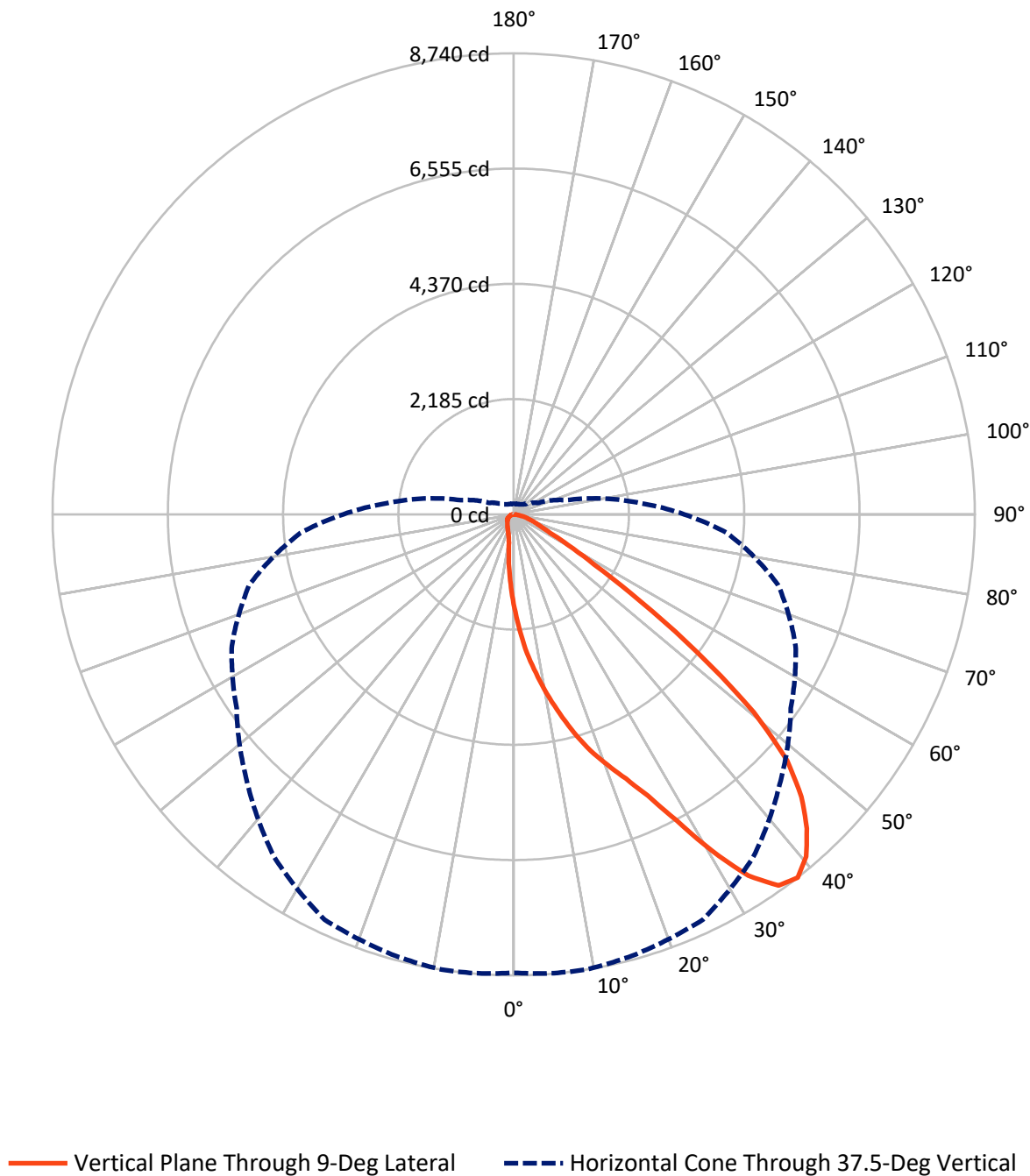
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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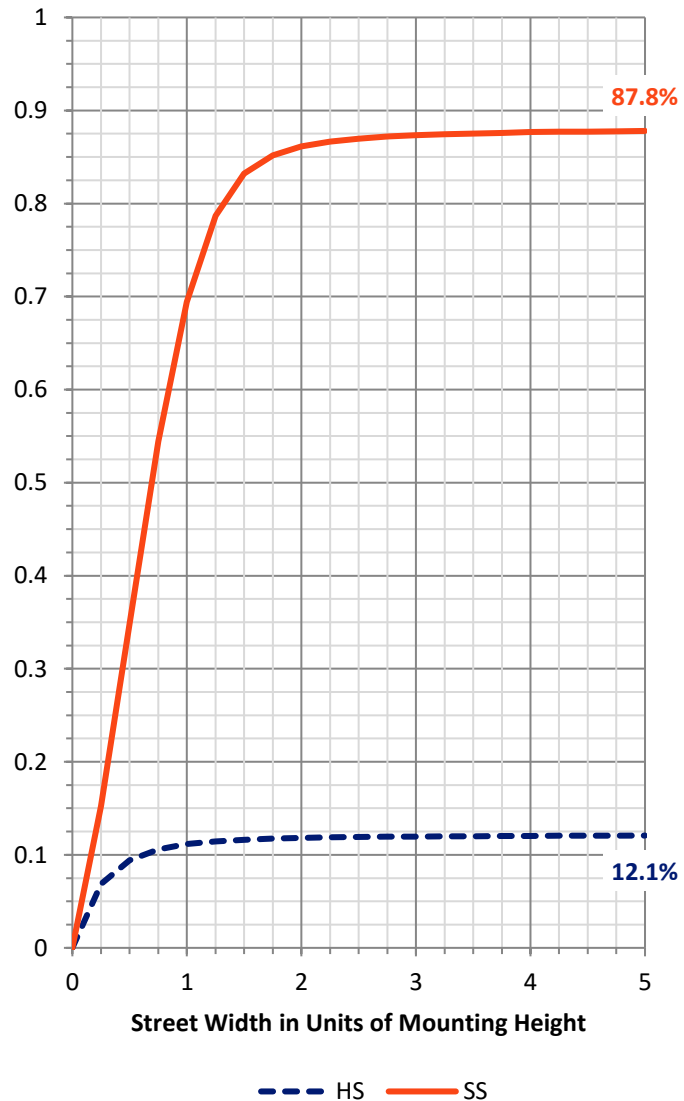
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1630.4	0.0	1630.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11775.6	0.0	11775.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	13406.0	0.0	13406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	1.3
10°-20°	619.1	4.6
20°-30°	1272.1	9.5
30°-40°	2248.5	16.8
40°-50°	2987.0	22.3
50°-60°	2833.0	21.1
60°-70°	2161.3	16.1
70°-80°	1047.8	7.8
80°-90°	59.0	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°	13406.0	100.0
0°-180°	13406.0	100.0

Coefficient of Utilization



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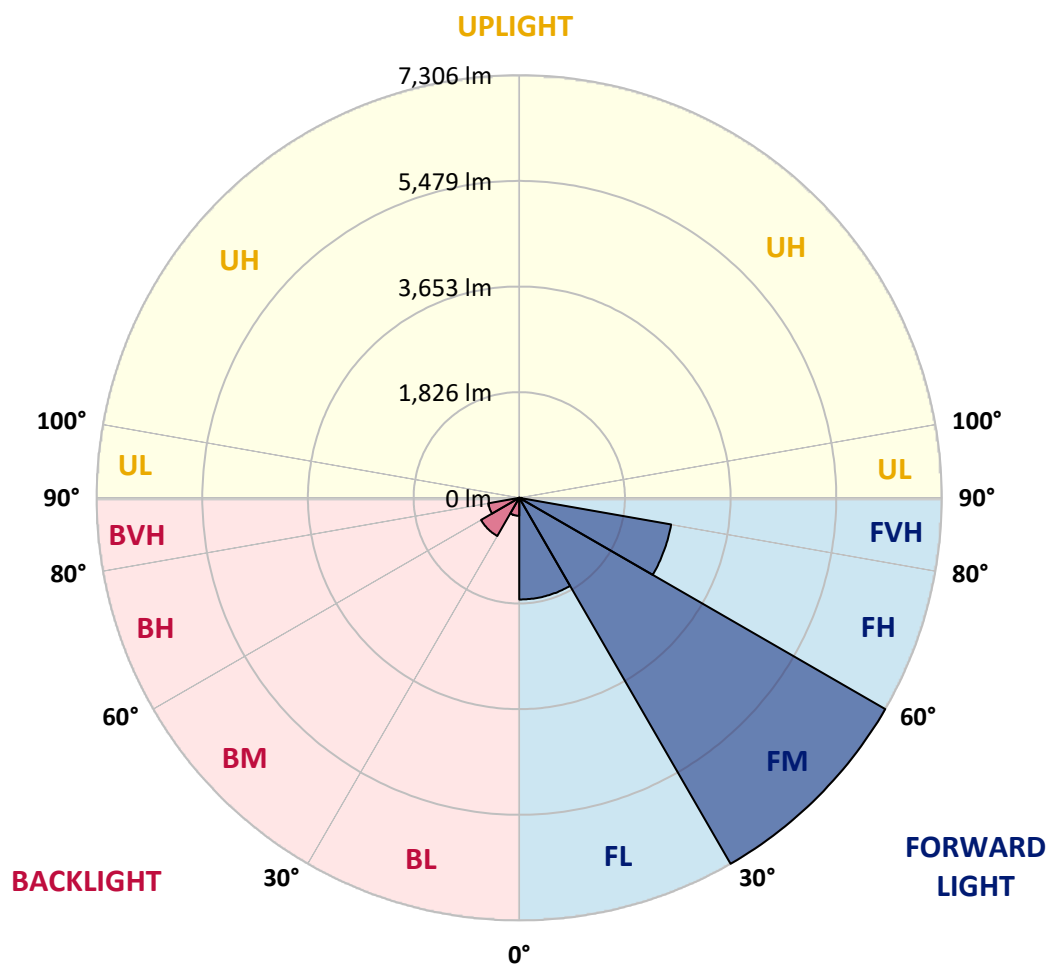
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1758.2	13.1			
FM	(30°-60°)	7305.6	54.5			
FH	(60°-80°)	2665.1	19.9			G2/5000
FVH	(80°-90°)	46.7	0.3			G1/100
BL	(0°-30°)	311.1	2.3	B1/500		
BM	(30°-60°)	762.9	5.7	B1/1000		
BH	(60°-80°)	544.1	4.1	B2/1000		G2/1000
BVH	(80°-90°)	12.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1
2.5°	2195.9	2157.4	2201.4	2195.9	2157.4	2132.6	2055.5	2030.8	1940.0	1873.9	1816.1
5°	2647.2	2608.6	2647.2	2636.2	2581.1	2520.6	2394.0	2311.4	2149.1	2006.0	1876.7
7.5°	3021.4	3021.4	3037.9	3040.7	2974.6	2881.1	2724.2	2600.4	2372.0	2151.8	1945.5
10°	3425.9	3428.6	3464.4	3439.7	3351.6	3225.0	3026.9	2870.0	2594.9	2305.9	2011.5
12.5°	3857.9	3860.7	3871.7	3860.7	3756.1	3593.8	3354.4	3148.0	2831.5	2482.1	2102.3
15°	4289.9	4292.7	4306.4	4287.2	4171.6	3981.7	3709.3	3456.2	3081.9	2680.2	2212.4
17.5°	4694.4	4699.9	4711.0	4686.2	4565.1	4339.5	4061.5	3756.1	3348.8	2892.1	2336.2
20°	5057.7	5063.2	5071.4	5038.4	4917.3	4691.7	4391.8	4072.6	3621.3	3109.4	2471.0
22.5°	5423.7	5429.2	5442.9	5398.9	5264.1	5005.4	4711.0	4380.7	3910.2	3348.8	2627.9
25°	5891.4	5896.9	5908.0	5844.7	5660.3	5357.6	5046.7	4708.2	4223.9	3618.5	2820.5
27.5°	6576.6	6571.1	6571.1	6455.5	6139.1	5745.6	5385.1	5041.2	4562.4	3907.4	3032.4
30°	7424.2	7410.4	7402.1	7245.3	6794.0	6183.1	5731.8	5352.1	4887.1	4212.9	3260.8
32.5°	8183.6	8183.6	8167.1	8002.0	7523.2	6772.0	6100.6	5654.8	5200.8	4521.1	3497.4
35°	8632.2	8651.4	8643.2	8519.3	8169.9	7404.9	6598.6	6018.0	5531.0	4843.0	3780.9
37.5°	8692.7	8731.2	8739.5	8665.2	8480.8	7922.2	7151.7	6411.5	5894.2	5189.8	4056.0
40°	8447.8	8530.3	8530.3	8519.3	8453.3	8167.1	7616.8	6868.3	6268.4	5550.2	4334.0
42.5°	8070.8	8156.1	8145.1	8186.4	8169.9	8109.3	7878.2	7294.8	6642.7	5921.7	4587.1
45°	7578.3	7666.3	7644.3	7718.6	7751.6	7817.7	7850.7	7592.0	7011.4	6326.2	4870.6
47.5°	6788.5	6937.1	6970.1	7102.2	7239.8	7446.2	7603.0	7699.3	7355.4	6761.0	5178.7
50°	5621.8	5830.9	5896.9	6174.9	6551.9	6978.4	7231.5	7567.2	7597.5	7206.8	5511.7
52.5°	4025.8	4267.9	4369.7	4826.5	5602.5	6345.5	6802.3	7275.6	7691.1	7633.3	5872.2
55°	2603.1	2809.5	2908.6	3337.8	4369.7	5536.5	6295.9	6898.6	7638.8	8024.0	6284.9
57.5°	1604.3	1722.6	1788.6	2157.4	3106.7	4499.1	5632.8	6551.9	7479.2	8362.5	6714.2
60°	1081.4	1150.2	1183.2	1356.6	2110.6	3362.6	4722.0	6188.6	7270.1	8590.9	7105.0
62.5°	718.2	740.2	773.2	880.6	1392.4	2361.0	3626.8	5539.2	7113.2	8604.6	7393.9
65°	555.8	566.9	580.6	627.4	858.5	1651.0	2550.8	4488.1	6879.3	8313.0	7484.7
67.5°	437.5	448.5	465.0	489.8	621.9	1120.0	1736.3	3288.3	6400.5	7856.2	7336.1
70°	344.0	352.2	363.2	385.2	484.3	811.8	1147.5	2184.9	5434.7	7421.4	6868.3
72.5°	272.4	280.7	291.7	313.7	393.5	594.4	787.0	1362.1	4190.9	6890.3	5968.5
75°	214.6	220.1	228.4	250.4	316.4	462.3	533.8	814.5	2848.0	5919.0	4650.4
77.5°	107.3	132.1	151.3	173.4	231.1	319.2	355.0	451.3	1202.5	3037.9	2217.9
80°	63.3	77.0	82.6	96.3	151.3	192.6	192.6	181.6	379.7	1166.7	905.3
82.5°	35.8	49.5	52.3	55.0	90.8	110.1	88.1	66.0	77.0	390.7	264.2
85°	11.0	16.5	19.3	22.0	30.3	33.0	30.3	27.5	22.0	38.5	24.8
87.5°	0.0	0.0	0.0	0.0	2.8	5.5	5.5	5.5	8.3	8.3	8.3
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°	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1
2.5°	1783.1	1747.3	1678.6	1615.3	1554.7	1510.7	1469.4	1430.9	1403.4	1381.4	1378.6
5°	1807.9	1736.3	1604.3	1480.4	1367.6	1274.0	1194.2	1131.0	1084.2	1051.2	1048.4
7.5°	1840.9	1730.8	1530.0	1345.6	1177.7	1042.9	927.3	842.0	781.5	756.7	737.5
10°	1868.4	1725.3	1455.7	1210.8	990.6	820.0	682.4	597.1	553.1	536.6	528.3
12.5°	1915.2	1730.8	1392.4	1086.9	828.3	627.4	522.8	476.0	456.8	443.0	440.3
15°	1984.0	1755.6	1331.8	965.9	663.2	506.3	445.8	415.5	396.2	393.5	390.7
17.5°	2052.8	1777.6	1276.8	842.0	550.3	440.3	399.0	374.2	360.5	357.7	357.7
20°	2132.6	1805.1	1216.3	723.7	470.5	396.2	363.2	344.0	327.5	324.7	324.7
22.5°	2226.1	1843.7	1158.5	619.1	418.3	363.2	335.7	313.7	299.9	297.2	297.2
25°	2352.7	1901.4	1111.7	542.1	382.5	335.7	310.9	291.7	280.7	275.2	275.2
27.5°	2493.1	1981.2	1078.7	495.3	357.7	313.7	288.9	272.4	261.4	255.9	255.9
30°	2649.9	2069.3	1056.7	476.0	344.0	294.4	272.4	255.9	242.2	239.4	239.4
32.5°	2823.3	2171.1	1042.9	478.8	341.2	280.7	255.9	239.4	228.4	222.9	222.9
35°	3015.9	2283.9	1034.6	495.3	346.7	269.7	242.2	225.6	214.6	209.1	209.1
37.5°	3230.5	2416.0	1034.6	511.8	360.5	266.9	228.4	211.9	203.6	198.1	198.1
40°	3431.4	2556.4	1045.7	531.1	374.2	266.9	217.4	203.6	192.6	187.1	187.1
42.5°	3588.2	2636.2	1053.9	550.3	382.5	264.2	206.4	192.6	184.4	178.9	178.9
45°	3767.1	2721.5	1037.4	558.6	382.5	258.7	198.1	184.4	176.1	170.6	170.6
47.5°	3965.2	2826.0	1034.6	564.1	374.2	247.7	189.9	176.1	170.6	165.1	165.1
50°	4166.1	2941.6	1040.2	561.4	363.2	231.1	178.9	170.6	162.4	156.8	156.8
52.5°	4394.5	3062.7	1051.2	555.8	338.5	211.9	170.6	162.4	154.1	148.6	145.8
55°	4647.7	3194.8	1073.2	544.8	305.4	192.6	162.4	154.1	143.1	137.6	134.8
57.5°	4939.3	3357.1	1097.9	522.8	269.7	176.1	154.1	143.1	126.6	118.3	115.6
60°	5217.3	3541.5	1125.5	470.5	233.9	159.6	145.8	129.3	112.8	107.3	104.6
62.5°	5478.7	3723.1	1139.2	377.0	198.1	145.8	137.6	118.3	101.8	96.3	93.6
65°	5646.5	3921.2	1108.9	255.9	162.4	134.8	126.6	110.1	93.6	85.3	85.3
67.5°	5657.5	4014.8	1004.4	167.9	132.1	121.1	115.6	99.1	82.6	77.0	74.3
70°	5379.6	3874.4	767.7	132.1	110.1	104.6	104.6	88.1	71.5	66.0	63.3
72.5°	4741.2	3431.4	489.8	107.3	93.6	88.1	88.1	74.3	63.3	55.0	52.3
75°	3742.3	2647.2	261.4	88.1	77.0	74.3	68.8	60.5	52.3	46.8	44.0
77.5°	1719.8	1166.7	121.1	63.3	57.8	57.8	52.3	44.0	41.3	35.8	35.8
80°	679.7	396.2	60.5	41.3	38.5	38.5	38.5	30.3	30.3	24.8	22.0
82.5°	187.1	82.6	30.3	24.8	24.8	24.8	22.0	19.3	19.3	16.5	16.5
85°	19.3	13.8	13.8	13.8	13.8	11.0	11.0	8.3	5.5	5.5	5.5
87.5°	8.3	8.3	8.3	8.3	8.3	5.5	2.8	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)