

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: P1211018

Luminaire Tested: **ARCH4-140-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-140-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

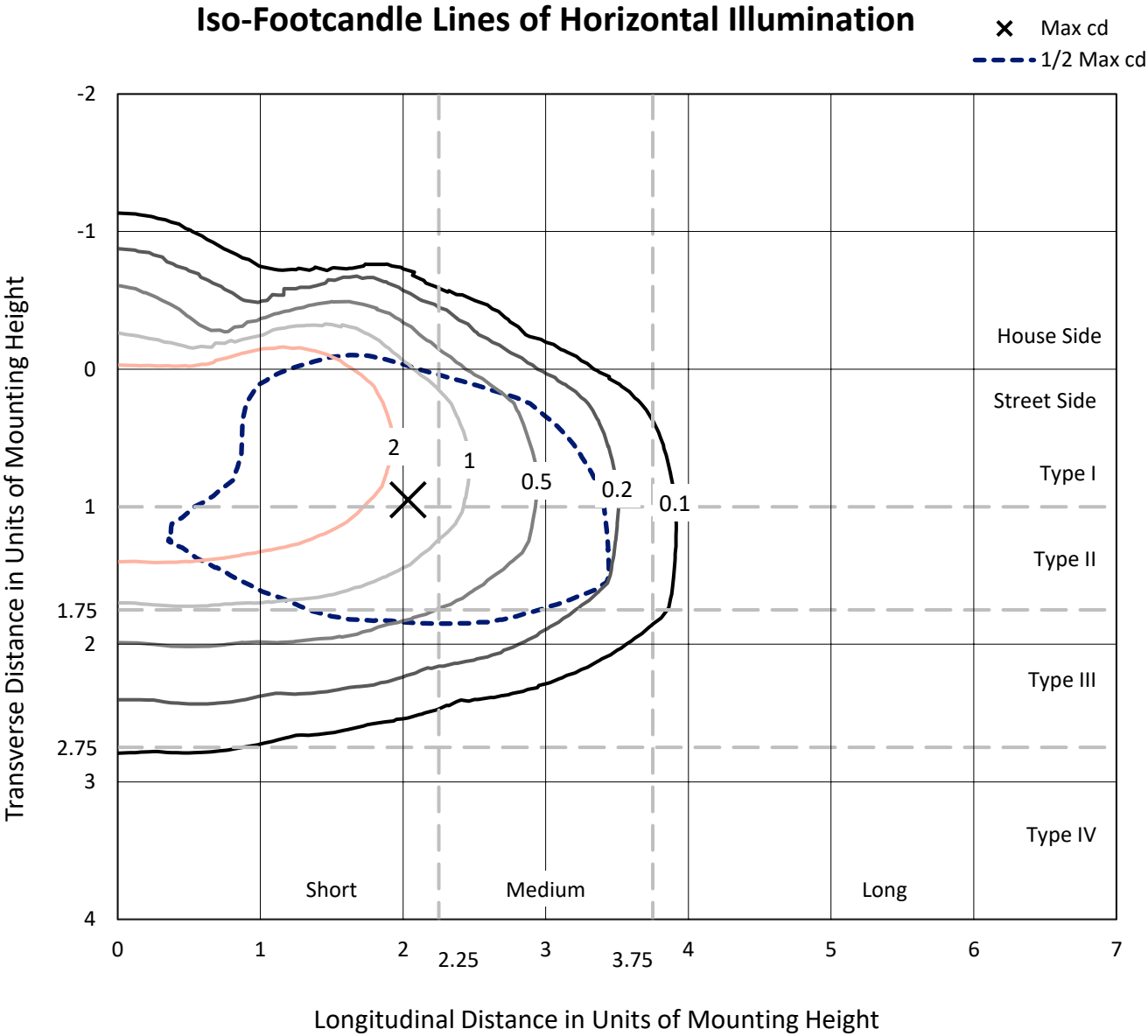
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16851 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 141.3
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



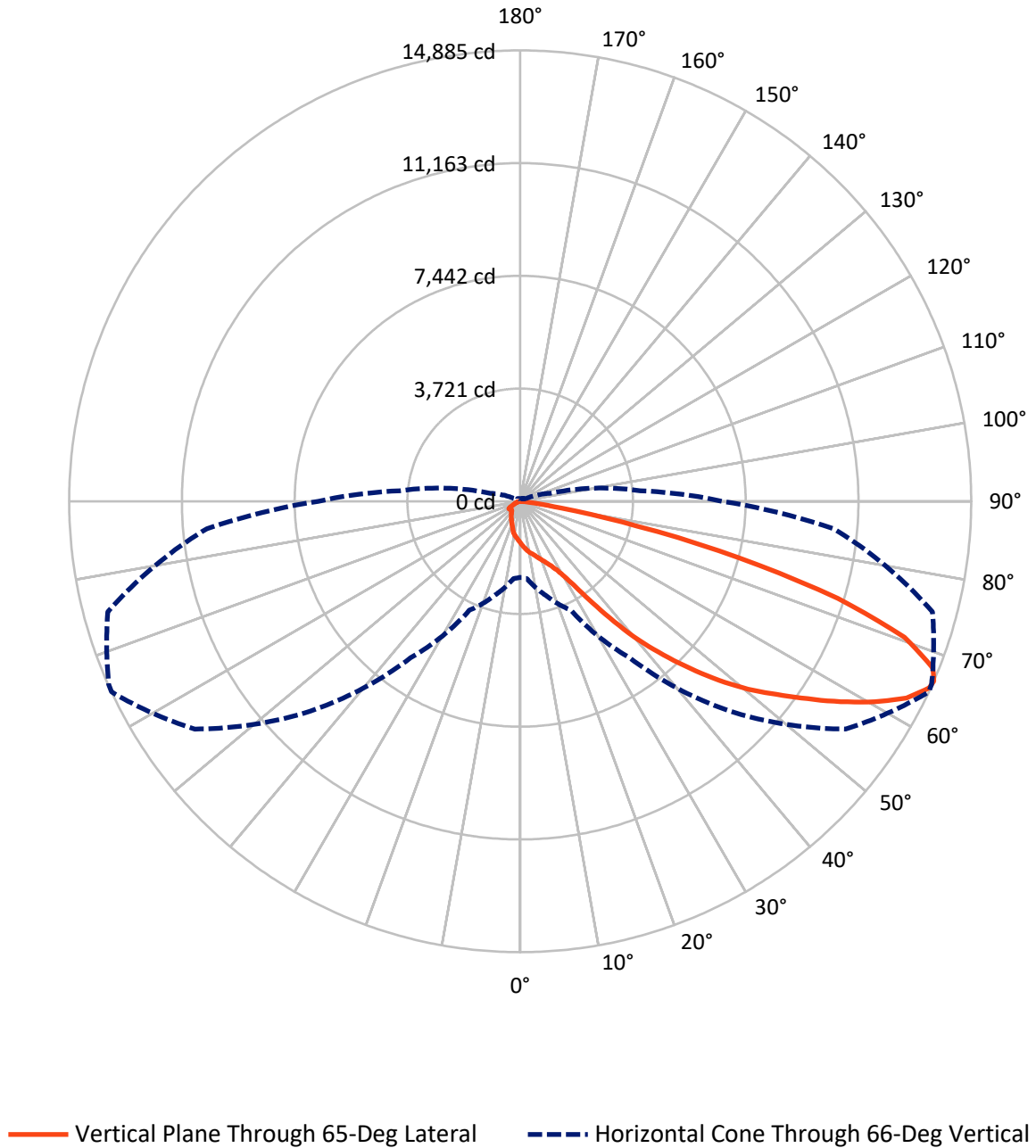
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Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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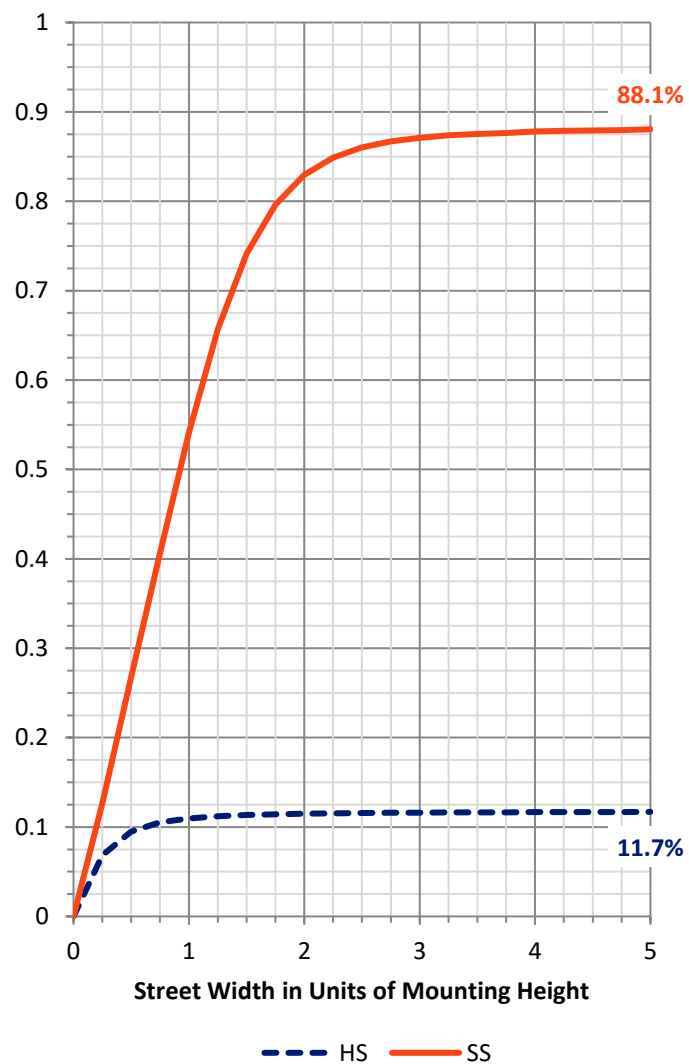
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1988.8	0.0	1988.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14862.2	0.0	14862.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	16851.0	0.0	16851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	0.8
10°-20°	385.3	2.3
20°-30°	705.2	4.2
30°-40°	1432.9	8.5
40°-50°	3026.0	18.0
50°-60°	4651.9	27.6
60°-70°	4682.5	27.8
70°-80°	1749.6	10.4
80°-90°	87.4	0.5
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°	16851.0	100.0
0°-180°	16851.0	100.0

Coefficient of Utilization



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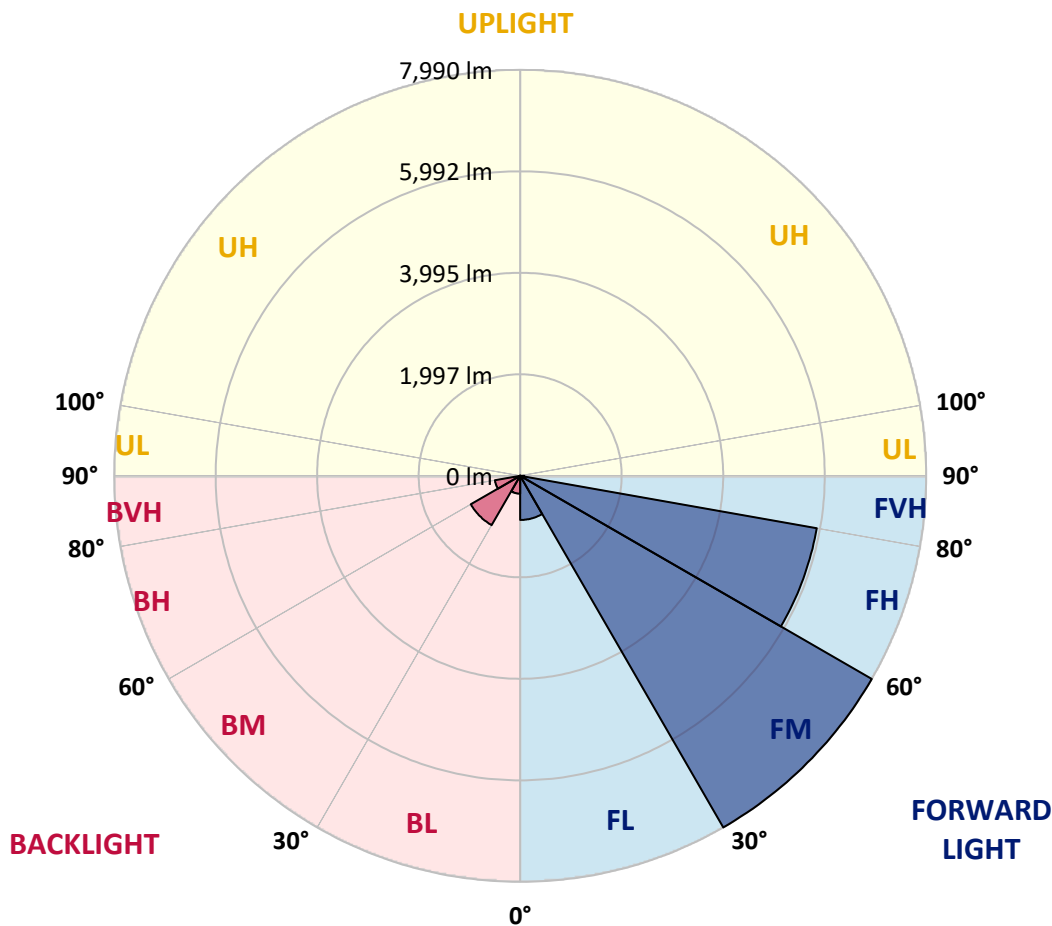
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	868.6	5.2			
FM	(30°-60°)	7989.6	47.4			
FH	(60°-80°)	5926.9	35.2			G3/7500
FVH	(80°-90°)	77.1	0.5			G1/100
BL	(0°-30°)	352.0	2.1	B1/500		
BM	(30°-60°)	1121.3	6.7	B2/2500		
BH	(60°-80°)	505.2	3.0	B2/1000		G2/1000
BVH	(80°-90°)	10.3	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1372.9	1372.9	1372.9	1372.9	1372.9	1372.9	1372.9	1372.9	1372.9	1372.9	1372.9
2.5°	1565.5	1568.6	1562.5	1550.2	1538.0	1522.7	1498.2	1458.5	1452.4	1424.9	1394.3
5°	1672.5	1678.6	1669.5	1666.4	1660.3	1638.9	1605.3	1547.2	1541.1	1486.0	1415.7
7.5°	1709.2	1718.4	1712.3	1712.3	1712.3	1703.1	1687.8	1635.8	1626.7	1556.3	1449.3
10°	1736.7	1742.9	1739.8	1752.0	1761.2	1755.1	1745.9	1715.3	1706.2	1635.8	1495.2
12.5°	1779.5	1782.6	1785.7	1791.8	1807.1	1813.2	1810.1	1782.6	1776.5	1727.6	1553.3
15°	1819.3	1819.3	1822.4	1849.9	1871.3	1883.5	1886.6	1865.2	1859.0	1819.3	1626.7
17.5°	1856.0	1859.0	1868.2	1898.8	1935.5	1960.0	1975.2	1966.1	1956.9	1926.3	1712.3
20°	1911.0	1917.1	1926.3	1969.1	2005.8	2045.6	2076.1	2073.1	2070.0	2048.6	1813.2
22.5°	2005.8	2011.9	2027.2	2067.0	2103.7	2152.6	2204.6	2201.5	2192.3	2177.0	1932.4
25°	2149.5	2149.5	2158.7	2192.3	2238.2	2296.3	2345.2	2354.4	2345.2	2336.0	2082.3
27.5°	2329.9	2333.0	2333.0	2369.7	2412.5	2485.9	2547.0	2556.2	2556.2	2547.0	2284.1
30°	2580.7	2571.5	2565.4	2595.9	2641.8	2748.8	2855.8	2874.2	2865.0	2880.3	2568.4
32.5°	3011.8	2996.5	2944.5	2950.6	2978.1	3124.9	3305.3	3369.5	3366.5	3394.0	3027.1
35°	3608.0	3577.4	3501.0	3436.8	3433.7	3592.7	3867.9	4109.5	4106.4	4201.2	3724.2
37.5°	4280.7	4320.5	4176.7	4066.7	4033.0	4158.4	4513.1	5035.9	5063.5	5228.6	4638.4
40°	5179.6	5204.1	5020.7	4864.7	4705.7	4751.6	5219.4	6032.7	6081.7	6265.1	5552.7
42.5°	5962.4	5986.9	5879.9	5690.3	5488.5	5402.9	5931.8	6937.8	6977.5	7231.3	6494.4
45°	6494.4	6512.8	6549.5	6567.8	6338.5	6161.2	6803.3	7867.3	7916.2	8209.8	7414.8
47.5°	6910.3	6925.6	6998.9	7182.4	7136.5	6995.9	7690.0	8833.5	8845.8	9172.9	8310.7
50°	7102.9	7139.6	7320.0	7601.3	7803.1	7842.9	8653.1	9747.8	9781.4	10093.3	9157.6
52.5°	6888.9	6901.1	7356.7	7885.7	8292.3	8695.9	9619.3	10594.7	10692.6	10925.0	9919.0
55°	6167.3	6255.9	6947.0	7876.5	8677.6	9506.2	10652.8	11509.0	11597.6	11744.4	10588.6
57.5°	5329.5	5427.3	6268.2	7482.1	8842.7	10255.3	11609.9	12481.3	12542.5	12582.2	11203.2
60°	4604.8	4696.5	5561.9	6726.8	8677.6	10784.3	12499.7	13447.5	13499.5	13392.5	11512.0
62.5°	3715.0	3806.8	4678.2	5727.0	8029.4	10891.3	13160.1	14306.7	14328.1	14037.6	11322.5
65°	2800.8	2862.0	3589.7	4488.6	6895.0	10322.6	13309.9	14841.8	14820.4	14224.2	10753.7
66°	2510.3	2562.3	3204.4	3968.8	6304.9	9802.8	13108.1	14884.6	14863.2	14086.6	10380.7
67.5°	2164.8	2180.1	2709.1	3247.2	5274.4	8699.0	12493.5	14688.9	14707.3	13707.4	9698.8
70°	1690.9	1687.8	1993.6	2259.6	3601.9	6188.7	10420.5	13456.7	13545.4	12276.4	8270.9
72.5°	1082.4	1045.7	1223.1	1382.1	2097.5	3592.7	7598.2	10967.8	11117.6	9643.8	6161.2
75°	645.2	608.5	651.3	691.0	1006.0	1727.6	4467.2	7463.7	7607.4	6182.6	3666.1
77.5°	483.1	467.8	470.9	437.2	446.4	648.2	2039.4	3944.4	4048.3	2531.7	1391.2
80°	370.0	330.2	308.8	324.1	293.5	256.8	758.3	1357.6	1421.8	599.3	290.5
82.5°	247.7	214.0	198.7	217.1	186.5	143.7	183.5	263.0	256.8	162.1	113.1
85°	128.4	110.1	110.1	110.1	94.8	70.3	79.5	107.0	107.0	85.6	67.3
87.5°	36.7	33.6	39.7	36.7	27.5	27.5	30.6	36.7	36.7	33.6	30.6
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°	1372.9	1372.9	1372.9	1372.9	1372.9	1372.9	1372.9	1372.9	1372.9	1372.9	1372.9
2.5°	1369.8	1357.6	1324.0	1299.5	1275.0	1253.6	1229.2	1223.1	1210.8	1213.9	1207.8
5°	1379.0	1345.4	1287.3	1232.2	1189.4	1152.7	1106.9	1088.5	1064.1	1054.9	1048.8
7.5°	1391.2	1342.3	1256.7	1180.3	1106.9	1033.5	960.1	917.3	889.8	877.5	868.4
10°	1418.7	1354.5	1241.4	1122.2	996.8	892.8	819.4	788.9	770.5	767.5	764.4
12.5°	1455.4	1372.9	1226.1	1048.8	883.7	785.8	739.9	730.8	727.7	727.7	724.7
15°	1510.5	1403.5	1201.7	963.2	795.0	727.7	706.3	691.0	684.9	684.9	684.9
17.5°	1565.5	1440.2	1165.0	874.5	733.8	691.0	669.6	660.5	654.3	657.4	654.3
20°	1635.8	1483.0	1116.0	798.0	694.1	660.5	639.0	629.9	626.8	626.8	626.8
22.5°	1715.3	1531.9	1054.9	739.9	660.5	629.9	608.5	599.3	593.2	596.2	596.2
25°	1822.4	1593.0	990.7	681.9	626.8	599.3	574.8	562.6	562.6	565.7	568.7
27.5°	1960.0	1666.4	926.5	645.2	596.2	568.7	541.2	529.0	532.0	538.1	538.1
30°	2161.8	1767.3	862.3	605.4	562.6	532.0	507.6	495.3	501.5	513.7	513.7
32.5°	2449.2	1932.4	807.2	559.5	513.7	480.1	455.6	446.4	461.7	486.2	486.2
35°	2962.9	2235.1	773.6	513.7	461.7	422.0	391.4	382.2	403.6	434.2	434.2
37.5°	3650.8	2721.3	785.8	473.9	418.9	373.0	339.4	327.2	342.5	370.0	379.1
40°	4418.3	3308.4	892.8	440.3	379.1	333.3	299.6	287.4	296.6	308.8	311.9
42.5°	5185.8	3932.1	1094.6	415.8	348.6	299.6	269.1	259.9	266.0	269.1	272.1
45°	5950.2	4549.8	1348.4	400.6	321.1	272.1	241.6	241.6	244.6	244.6	244.6
47.5°	6674.8	5152.1	1614.4	397.5	296.6	244.6	220.2	223.2	223.2	226.3	226.3
50°	7359.8	5690.3	1883.5	406.7	275.2	220.2	201.8	201.8	201.8	204.9	201.8
52.5°	7931.5	6161.2	2164.8	422.0	253.8	201.8	183.5	183.5	183.5	186.5	183.5
55°	8472.7	6589.2	2452.2	443.4	235.4	186.5	168.2	162.1	162.1	165.1	162.1
57.5°	8913.0	6873.6	2724.4	446.4	220.2	171.2	155.9	146.8	146.8	146.8	146.8
60°	8931.4	6708.5	2803.9	391.4	201.8	155.9	140.7	128.4	131.5	131.5	131.5
62.5°	8347.4	5840.1	2253.5	293.5	180.4	140.7	128.4	116.2	116.2	116.2	116.2
65°	7200.8	4543.7	1320.9	232.4	155.9	125.4	113.1	104.0	104.0	104.0	100.9
66°	6662.6	3984.1	1012.1	211.0	146.8	122.3	110.1	100.9	97.8	94.8	94.8
67.5°	5785.1	3149.4	632.9	186.5	134.5	113.1	100.9	91.7	88.7	85.6	85.6
70°	4357.1	1999.7	308.8	143.7	116.2	97.8	88.7	79.5	76.4	73.4	70.3
72.5°	3057.6	1171.1	162.1	110.1	94.8	85.6	76.4	67.3	64.2	61.2	61.2
75°	1727.6	565.7	107.0	79.5	76.4	70.3	64.2	55.0	52.0	52.0	52.0
77.5°	654.3	195.7	73.4	58.1	61.2	55.0	45.9	45.9	42.8	45.9	42.8
80°	171.2	85.6	45.9	42.8	45.9	39.7	33.6	36.7	36.7	36.7	36.7
82.5°	91.7	48.9	27.5	30.6	27.5	27.5	21.4	24.5	27.5	24.5	27.5
85°	64.2	24.5	15.3	15.3	12.2	12.2	9.2	12.2	15.3	12.2	12.2
87.5°	33.6	9.2	9.2	9.2	9.2	6.1	3.1	0.0	3.1	3.1	3.1
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)