

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: P842371

Luminaire Tested: **ARCH4-40-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4673 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.8
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

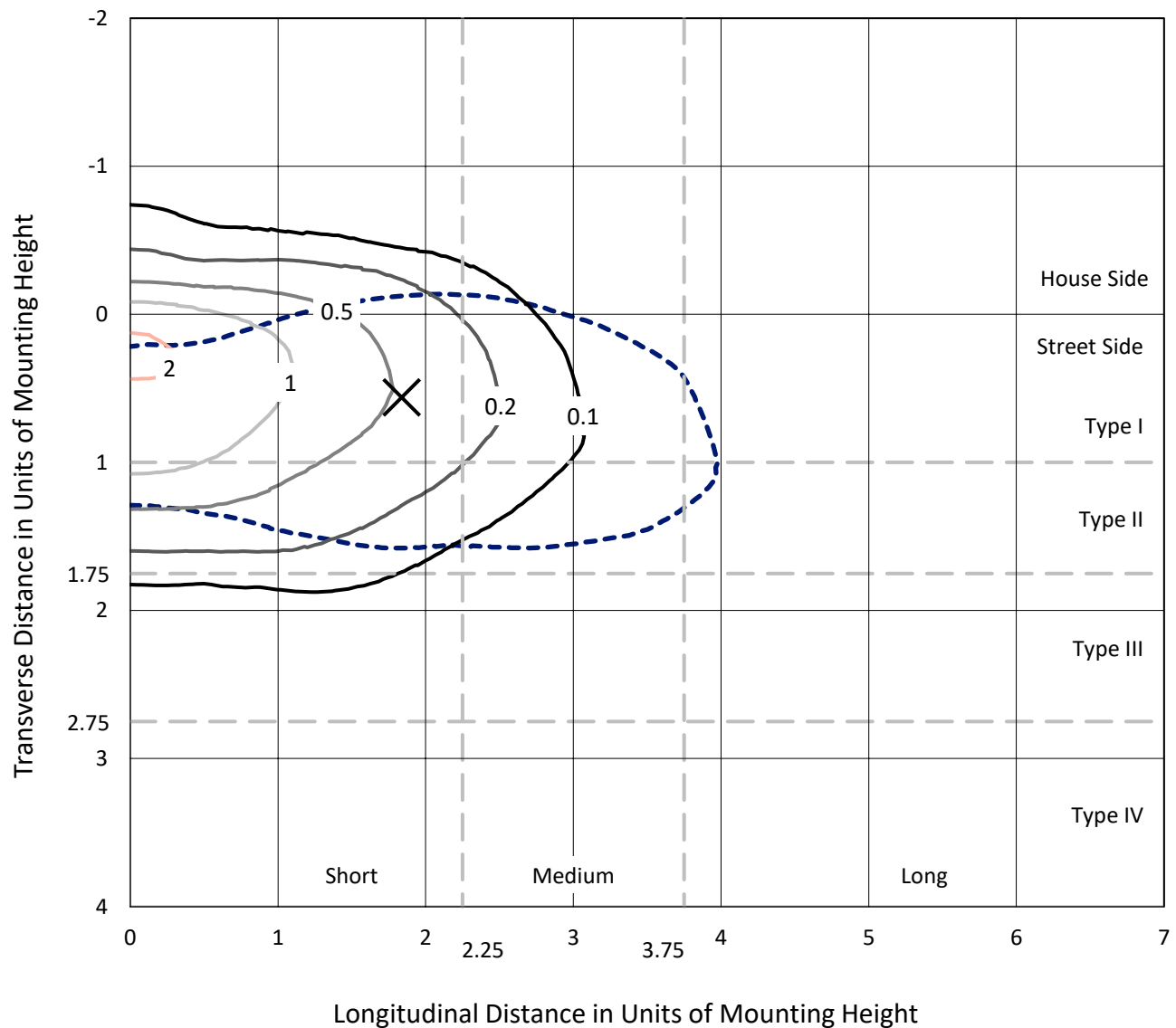


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Iso-Footcandle Lines of Horizontal Illumination

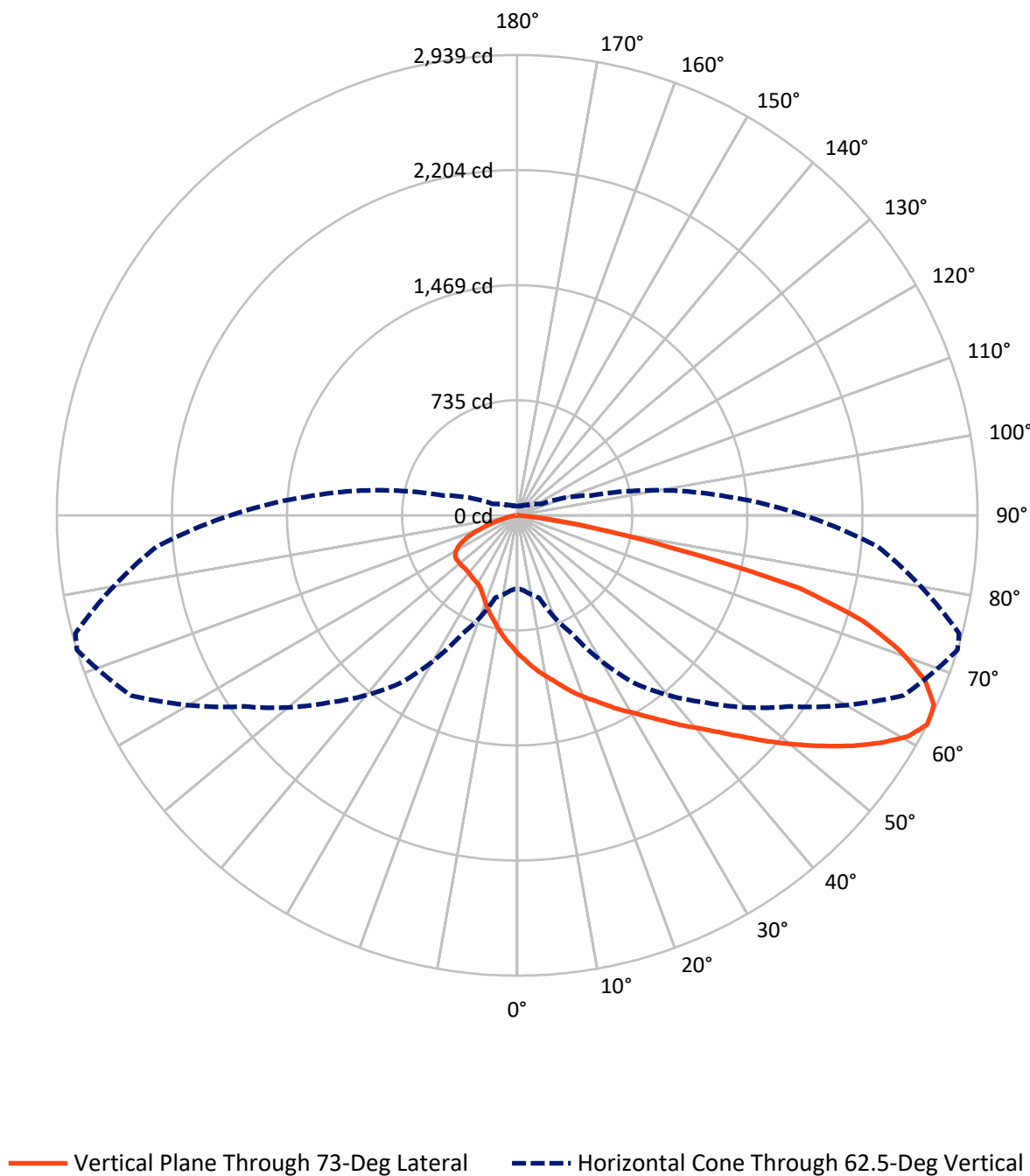
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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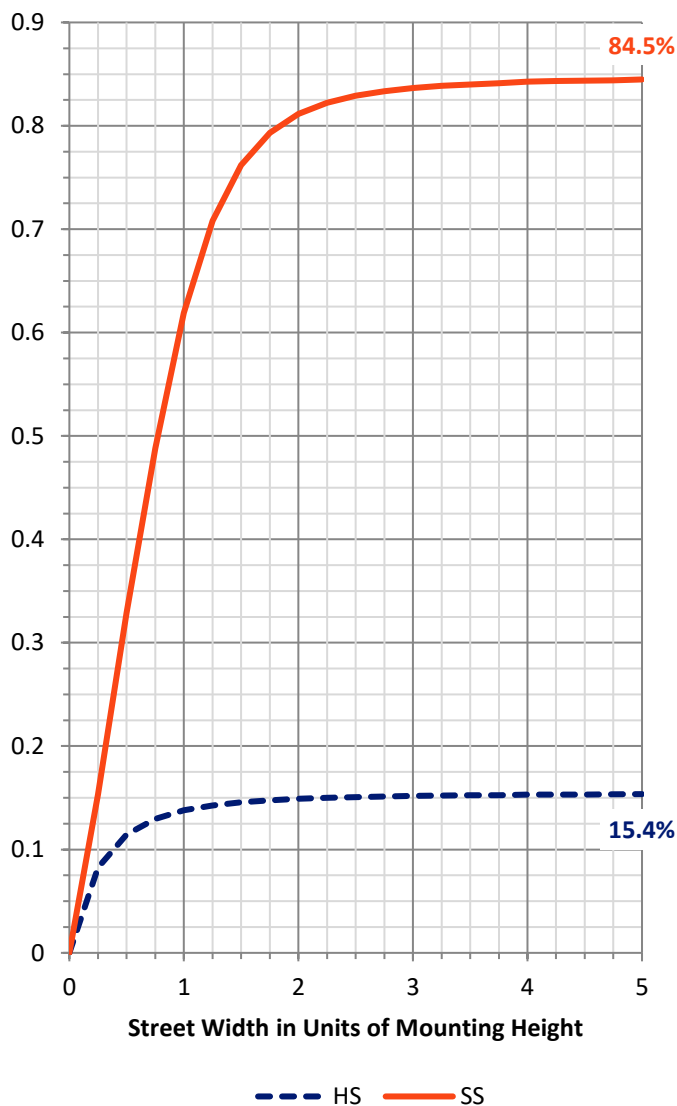
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	724.4	0.0	724.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3948.6	0.0	3948.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	4673.0	0.0	4673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.8
10°-20°	257.9	5.5
20°-30°	429.4	9.2
30°-40°	647.8	13.9
40°-50°	905.5	19.4
50°-60°	1000.2	21.4
60°-70°	871.3	18.6
70°-80°	440.1	9.4
80°-90°	35.3	0.8
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°	4673.0	100.0
0°-180°	4673.0	100.0

Coefficient of Utilization



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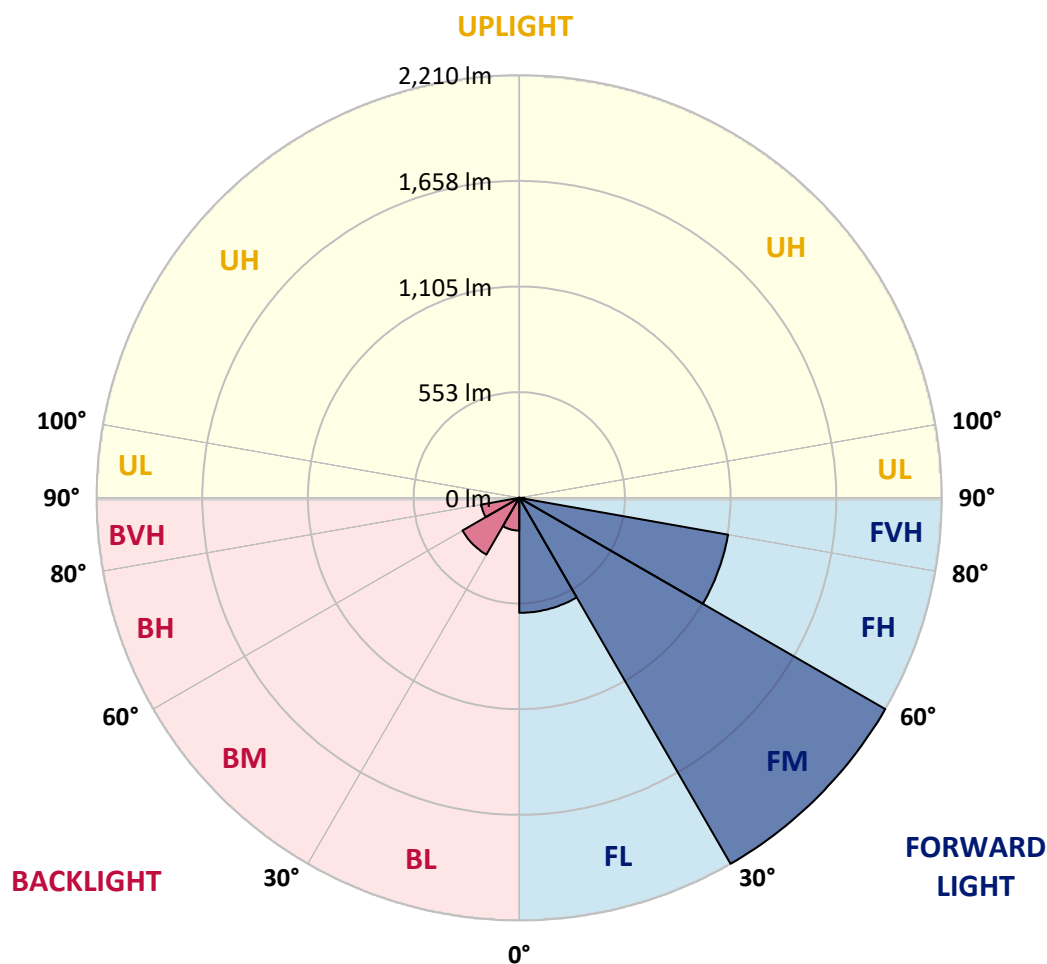
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	601.6	12.9			
FM	(30°-60°)	2210.5	47.3			
FH	(60°-80°)	1109.2	23.7			G1/1800
FVH	(80°-90°)	27.3	0.6			G1/100
BL	(0°-30°)	171.2	3.7	B1/500		
BM	(30°-60°)	343.0	7.3	B1/1000		
BH	(60°-80°)	202.2	4.3	B1/500		G1/500
BVH	(80°-90°)	8.0	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	884.8	884.8	884.8	884.8	884.8	884.8	884.8	884.8	884.8	884.8	884.8
2.5°	1007.0	1018.2	1012.1	1016.2	995.8	982.6	967.3	937.8	921.5	919.5	900.1
5°	1154.7	1166.9	1156.7	1153.7	1118.0	1087.5	1052.9	1000.9	966.3	960.2	917.4
7.5°	1302.3	1313.5	1301.3	1292.1	1244.3	1190.3	1139.4	1063.0	1009.1	998.9	931.7
10°	1406.2	1416.4	1407.2	1398.0	1348.1	1293.2	1220.9	1121.1	1047.8	1031.5	940.8
12.5°	1484.6	1490.7	1486.6	1478.5	1431.6	1372.6	1303.3	1186.2	1091.5	1071.2	955.1
15°	1548.7	1558.9	1553.8	1547.7	1502.9	1443.9	1377.7	1254.5	1142.5	1117.0	976.5
17.5°	1591.5	1598.6	1599.6	1599.6	1559.9	1501.9	1437.7	1316.6	1193.4	1160.8	996.8
20°	1610.8	1619.0	1624.1	1632.2	1599.6	1549.7	1484.6	1369.5	1241.2	1204.6	1016.2
22.5°	1620.0	1627.1	1640.4	1658.7	1632.2	1590.5	1530.4	1418.4	1289.1	1250.4	1038.6
25°	1627.1	1636.3	1655.6	1690.3	1671.9	1636.3	1584.4	1474.4	1346.1	1306.4	1071.2
27.5°	1646.5	1657.7	1676.0	1717.8	1695.4	1678.0	1641.4	1534.5	1406.2	1365.4	1110.9
30°	1713.7	1722.8	1721.8	1748.3	1720.8	1715.7	1690.3	1592.5	1464.2	1423.5	1157.7
32.5°	1835.9	1845.0	1822.6	1812.5	1752.4	1753.4	1743.2	1654.6	1533.5	1491.7	1211.7
35°	1967.2	1977.4	1947.9	1930.6	1829.8	1800.2	1805.3	1732.0	1610.8	1569.1	1278.9
37.5°	2084.3	2096.5	2071.1	2045.6	1943.8	1875.6	1874.6	1818.6	1699.4	1656.7	1353.2
40°	2148.5	2162.7	2178.0	2163.7	2056.8	1981.5	1948.9	1907.1	1787.0	1743.2	1433.7
42.5°	2179.0	2218.7	2246.2	2237.1	2149.5	2073.1	2034.4	1999.8	1893.9	1851.1	1529.4
45°	2093.5	2094.5	2152.5	2202.4	2186.1	2135.2	2128.1	2103.7	2016.1	1975.4	1637.3
47.5°	1986.6	1978.4	2019.2	2107.7	2153.6	2166.8	2208.5	2218.7	2155.6	2114.9	1747.3
50°	1730.0	1735.1	1867.4	1994.7	2084.3	2169.8	2265.6	2336.8	2299.2	2260.5	1863.4
52.5°	1407.2	1419.4	1571.1	1851.1	1992.7	2139.3	2299.2	2455.0	2445.8	2409.1	1979.4
55°	1128.2	1147.5	1308.4	1611.9	1875.6	2071.1	2313.4	2562.9	2597.5	2563.9	2093.5
57.5°	862.4	882.8	1018.2	1329.8	1725.9	1960.1	2303.2	2657.6	2739.0	2717.7	2198.4
60°	649.6	670.0	756.5	1078.3	1538.5	1835.9	2252.3	2719.7	2866.3	2843.9	2274.7
62.5°	465.3	481.6	545.8	839.0	1310.5	1688.2	2127.1	2720.7	2938.6	2920.3	2311.4
65°	335.0	335.0	386.9	598.7	1096.6	1511.1	1937.7	2595.5	2923.3	2918.2	2285.9
67.5°	241.3	243.4	285.1	418.5	874.7	1296.2	1692.3	2372.5	2805.2	2830.7	2194.3
70°	171.1	176.2	195.5	292.2	660.8	1023.3	1429.6	2080.2	2592.4	2637.2	2017.1
72.5°	132.4	135.4	148.7	203.6	482.6	760.6	1139.4	1754.4	2308.3	2359.2	1775.8
75°	101.8	104.9	115.1	149.7	346.2	533.6	809.5	1361.4	1861.3	1951.9	1426.5
77.5°	74.3	78.4	85.5	109.0	201.6	339.1	490.8	765.7	1027.4	1070.2	747.4
80°	34.6	39.7	49.9	70.3	109.0	159.9	174.1	295.3	493.8	516.2	405.3
82.5°	19.3	24.4	28.5	42.8	55.0	57.0	59.1	74.3	186.3	205.7	170.0
85°	9.2	12.2	13.2	18.3	18.3	16.3	19.3	14.3	30.5	36.7	35.6
87.5°	0.0	1.0	2.0	5.1	4.1	3.1	3.1	3.1	3.1	4.1	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	884.8	884.8	884.8	884.8	884.8	884.8	884.8	884.8	884.8	884.8	884.8
2.5°	891.0	877.7	847.2	820.7	803.4	788.1	767.7	758.6	742.3	745.3	736.2
5°	896.0	871.6	817.6	767.7	731.1	698.5	662.9	642.5	620.1	618.1	610.9
7.5°	899.1	861.4	784.0	713.8	657.8	607.9	560.0	533.6	506.1	500.0	493.8
10°	896.0	846.1	749.4	657.8	583.4	521.3	467.4	433.8	405.3	398.1	392.0
12.5°	899.1	838.0	716.8	605.8	517.3	447.0	385.9	351.3	324.8	317.7	313.6
15°	906.2	832.9	689.3	559.0	458.2	379.8	319.7	290.2	268.8	261.7	259.6
17.5°	912.3	827.8	659.8	513.2	399.1	320.7	268.8	244.4	226.0	218.9	216.9
20°	920.5	820.7	630.3	469.4	347.2	273.9	228.1	206.7	192.4	187.4	186.3
22.5°	927.6	815.6	602.8	425.6	299.4	236.2	197.5	180.2	170.0	165.0	165.0
25°	945.9	817.6	579.4	384.9	263.7	206.7	174.1	160.9	152.7	149.7	149.7
27.5°	967.3	825.8	561.0	350.3	233.2	184.3	157.8	146.6	142.6	138.5	139.5
30°	997.9	842.1	548.8	321.8	210.8	167.0	144.6	136.4	132.4	131.4	131.4
32.5°	1036.6	868.6	547.8	303.4	194.5	153.8	135.4	128.3	126.3	125.2	125.2
35°	1082.4	892.0	541.7	295.3	184.3	144.6	128.3	123.2	122.2	122.2	122.2
37.5°	1137.4	930.7	537.6	284.1	179.2	139.5	123.2	119.1	119.1	119.1	119.1
40°	1194.4	962.2	531.5	273.9	177.2	136.4	120.2	115.1	115.1	115.1	115.1
42.5°	1262.6	1008.0	529.5	268.8	174.1	134.4	116.1	110.0	111.0	111.0	112.0
45°	1345.1	1060.0	528.5	263.7	173.1	132.4	112.0	104.9	105.9	104.9	104.9
47.5°	1428.6	1120.1	531.5	260.7	172.1	130.3	109.0	99.8	99.8	98.8	98.8
50°	1516.1	1175.0	533.6	257.6	170.0	126.3	103.9	95.7	93.7	91.6	92.7
52.5°	1598.6	1225.9	534.6	252.5	163.9	120.2	99.8	90.6	87.6	84.5	85.5
55°	1681.1	1274.8	536.6	246.4	155.8	114.0	94.7	85.5	81.5	77.4	77.4
57.5°	1755.4	1317.6	531.5	231.1	146.6	107.9	89.6	79.4	73.3	69.2	69.2
60°	1806.3	1348.1	516.2	208.7	134.4	100.8	84.5	73.3	66.2	63.1	63.1
62.5°	1830.8	1353.2	488.8	172.1	119.1	93.7	78.4	67.2	61.1	59.1	59.1
65°	1807.4	1330.8	446.0	129.3	102.8	85.5	72.3	62.1	56.0	50.9	50.9
67.5°	1725.9	1267.7	386.9	97.8	87.6	77.4	66.2	57.0	49.9	45.8	45.8
70°	1562.0	1136.3	299.4	78.4	74.3	67.2	60.1	50.9	44.8	39.7	39.7
72.5°	1347.1	963.2	210.8	63.1	63.1	57.0	50.9	44.8	38.7	34.6	34.6
75°	1033.5	712.8	141.5	50.9	51.9	47.9	41.7	36.7	32.6	29.5	29.5
77.5°	564.1	352.3	86.5	37.7	38.7	36.7	32.6	29.5	27.5	24.4	24.4
80°	273.9	154.8	49.9	26.5	27.5	26.5	24.4	21.4	21.4	19.3	19.3
82.5°	115.1	58.0	26.5	18.3	18.3	16.3	15.3	15.3	15.3	14.3	14.3
85°	28.5	11.2	11.2	10.2	10.2	10.2	9.2	9.2	9.2	7.1	8.1
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	3.1	1.0	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)