

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: P842373

Luminaire Tested: **ARCH4-40-722-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4528 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - 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

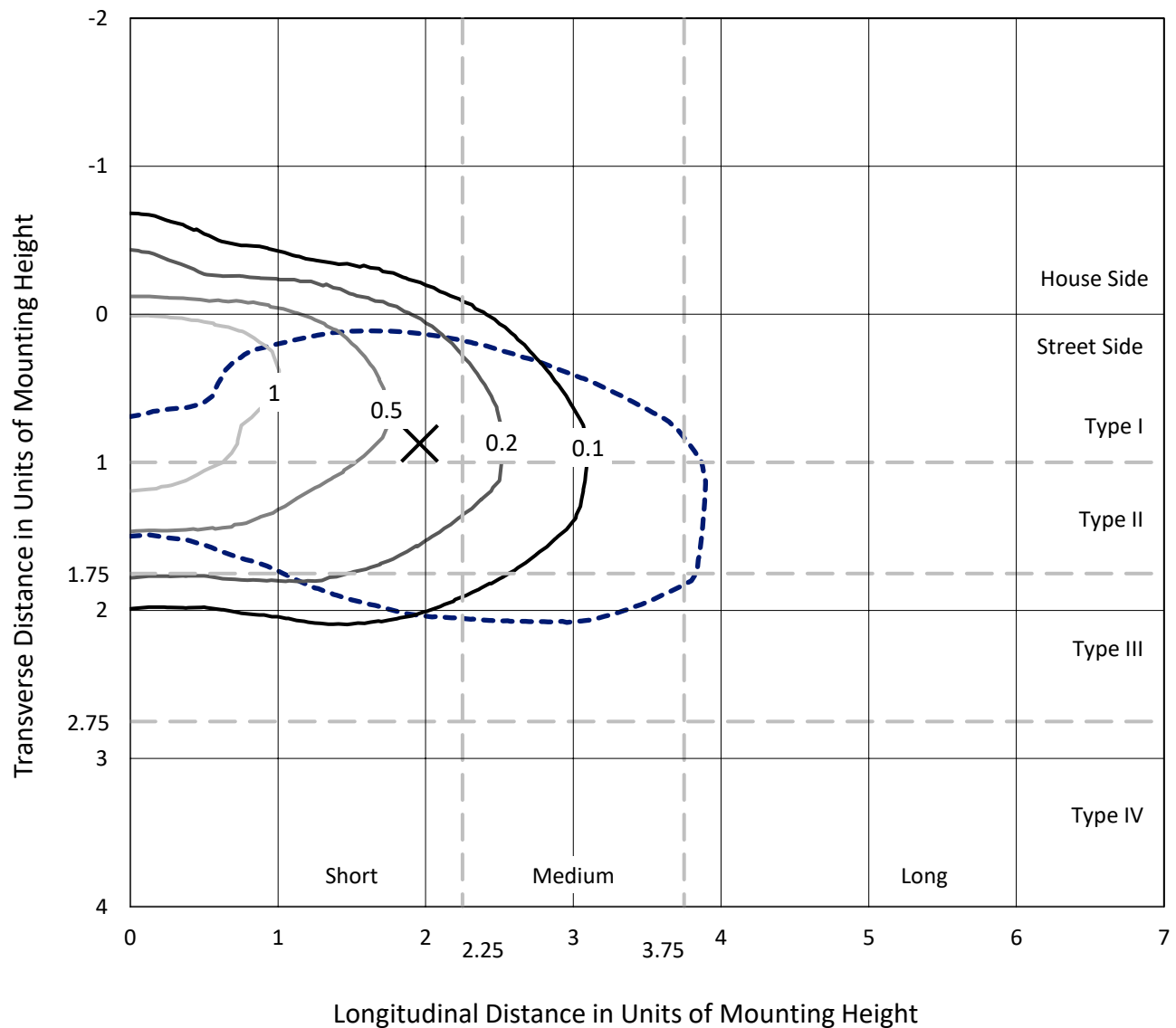


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

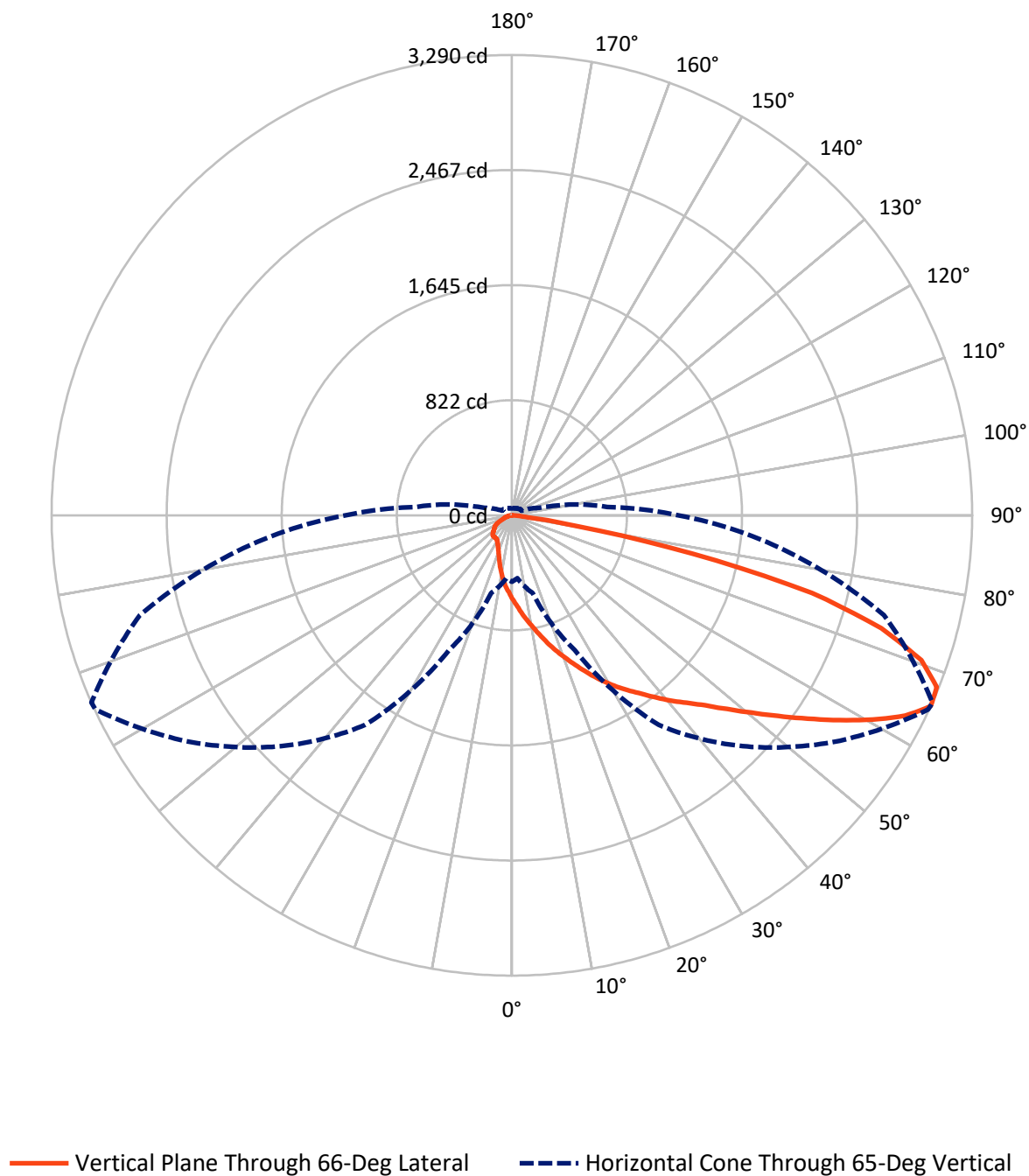


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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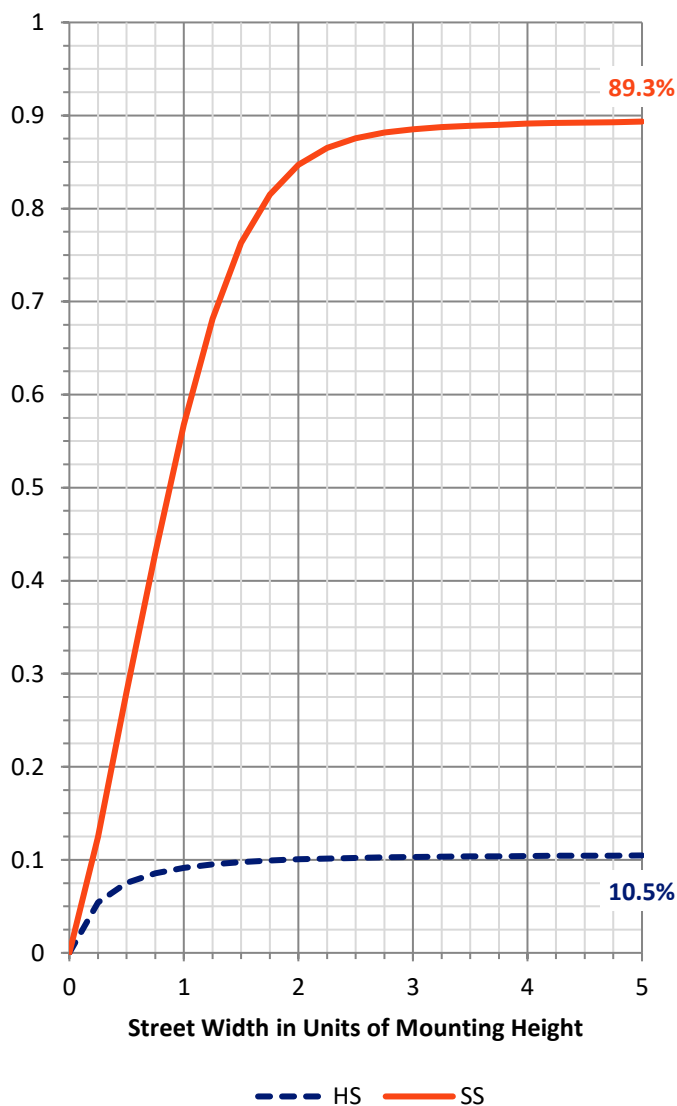
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	478.9	0.0	478.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4049.1	0.0	4049.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	4528.0	0.0	4528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	1.3
10°-20°	192.8	4.3
20°-30°	348.8	7.7
30°-40°	545.4	12.0
40°-50°	827.4	18.3
50°-60°	1051.2	23.2
60°-70°	982.3	21.7
70°-80°	488.2	10.8
80°-90°	32.8	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°	4528.0	100.0
0°-180°	4528.0	100.0

Coefficient of Utilization



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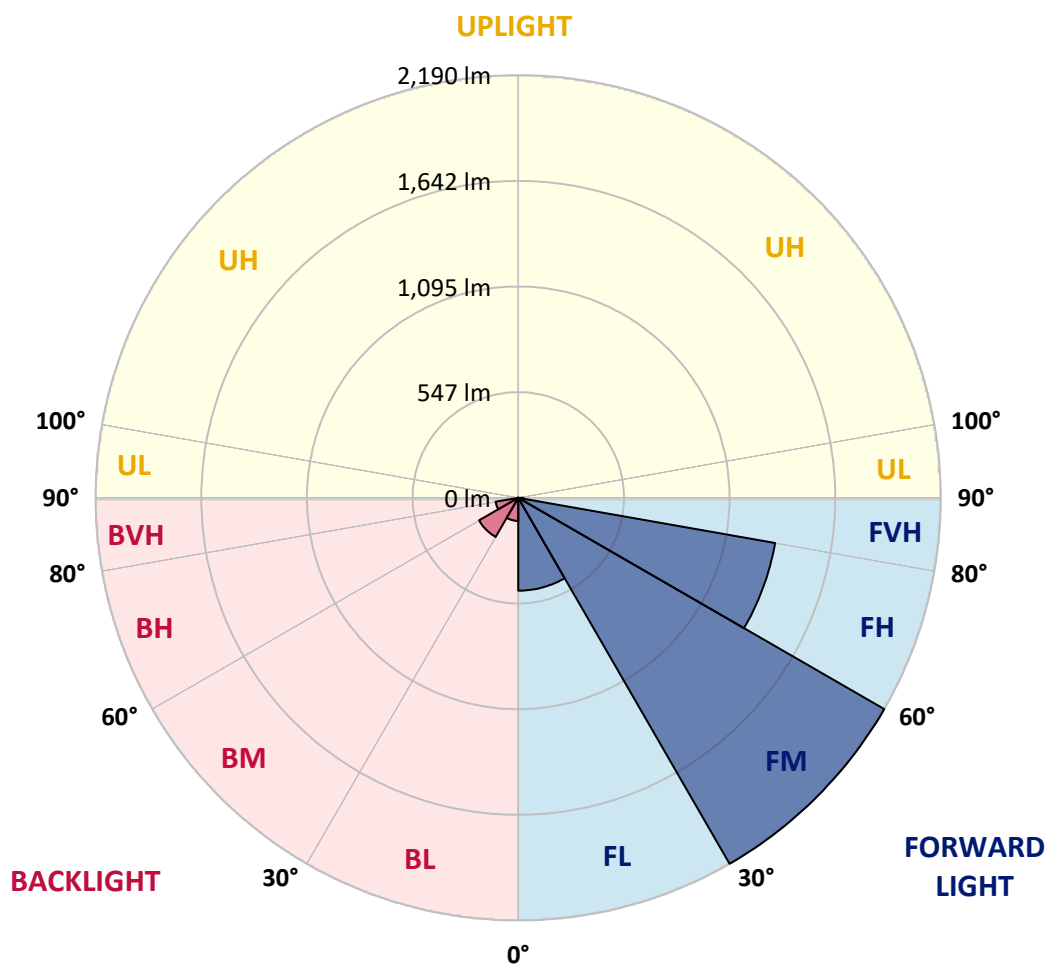
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	481.1	10.6			
FM	(30°-60°)	2189.8	48.4			
FH	(60°-80°)	1351.2	29.8			G1/1800
FVH	(80°-90°)	27.0	0.6			G1/100
BL	(0°-30°)	119.6	2.6	B1/500		
BM	(30°-60°)	234.3	5.2	B1/1000		
BH	(60°-80°)	119.3	2.6	B1/500		G1/500
BVH	(80°-90°)	5.8	0.1			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	599.3	599.3	599.3	599.3	599.3	599.3	599.3	599.3	599.3	599.3	599.3
2.5°	699.9	705.6	708.5	709.4	687.6	678.1	668.6	646.7	642.0	629.6	613.5
5°	823.4	831.0	829.1	825.3	798.7	768.3	743.6	702.8	696.1	666.7	630.6
7.5°	944.9	951.6	949.7	935.4	906.0	863.3	822.4	762.6	753.1	705.6	647.7
10°	1046.6	1052.3	1051.3	1037.1	1001.9	949.7	900.3	820.5	809.1	741.7	661.9
12.5°	1130.1	1137.7	1136.8	1127.3	1095.9	1039.0	982.9	887.0	872.8	785.4	681.9
15°	1195.7	1205.2	1205.2	1201.4	1179.5	1132.0	1068.4	960.1	943.0	835.7	706.6
17.5°	1235.5	1243.1	1249.8	1256.4	1241.2	1205.2	1147.2	1033.3	1015.2	885.1	732.2
20°	1256.4	1264.0	1268.8	1283.0	1285.9	1267.8	1222.3	1105.4	1086.4	941.1	761.7
22.5°	1290.6	1297.3	1298.2	1310.6	1316.3	1321.0	1292.5	1176.7	1161.5	1002.9	794.9
25°	1347.6	1355.2	1352.4	1358.1	1359.0	1364.7	1361.9	1258.3	1243.1	1073.2	834.8
27.5°	1420.7	1430.2	1428.3	1422.6	1414.1	1409.3	1421.7	1341.0	1326.7	1143.4	875.6
30°	1499.6	1511.0	1508.1	1496.7	1473.9	1454.0	1471.1	1418.8	1405.5	1215.6	921.2
32.5°	1579.3	1592.6	1591.7	1572.7	1533.8	1499.6	1525.2	1492.0	1482.5	1293.5	970.6
35°	1631.6	1648.7	1646.8	1635.4	1585.0	1555.6	1586.9	1567.0	1560.3	1388.5	1041.8
37.5°	1716.1	1734.1	1718.0	1689.5	1631.6	1616.4	1654.4	1651.5	1646.8	1489.1	1116.8
40°	1921.2	1947.8	1905.1	1788.3	1693.3	1680.0	1734.1	1745.5	1740.8	1588.8	1184.3
42.5°	2135.9	2175.7	2109.3	1947.8	1805.4	1756.9	1821.5	1837.7	1832.0	1674.3	1245.0
45°	2266.0	2283.1	2216.6	2091.2	2003.9	1850.0	1914.6	1941.2	1936.4	1776.9	1322.9
47.5°	2372.3	2365.7	2289.7	2205.2	2221.3	1981.1	2020.0	2072.2	2068.4	1889.9	1408.4
50°	2395.1	2379.9	2349.5	2296.4	2339.1	2114.0	2131.1	2221.3	2217.5	2015.2	1494.8
52.5°	2234.6	2214.7	2297.3	2341.9	2327.7	2210.9	2253.6	2384.7	2382.8	2151.1	1577.4
55°	1833.9	1817.7	2039.9	2270.7	2315.4	2279.3	2389.4	2554.7	2565.1	2295.4	1652.5
57.5°	1442.6	1425.5	1643.9	2092.2	2269.8	2341.9	2548.0	2749.4	2762.7	2452.1	1723.7
60°	1150.1	1124.4	1291.6	1811.1	2184.3	2390.4	2700.9	2963.0	2964.9	2595.5	1767.4
62.5°	781.6	753.1	938.3	1454.9	2040.9	2398.0	2818.7	3147.3	3154.9	2702.8	1775.0
65°	474.8	451.1	576.5	1062.7	1829.1	2333.4	2820.6	3283.1	3289.7	2752.2	1729.4
67.5°	275.4	265.9	329.5	661.9	1477.7	2159.6	2701.9	3262.2	3274.5	2731.3	1625.9
70°	160.5	159.5	183.3	327.6	1042.8	1814.9	2436.9	3086.5	3104.5	2622.1	1467.3
72.5°	117.8	119.7	129.2	175.7	604.0	1306.8	2063.7	2733.2	2760.8	2408.4	1241.2
75°	93.1	94.0	102.6	119.7	317.2	738.9	1546.1	2193.8	2215.6	2027.6	969.6
77.5°	69.3	71.2	77.9	84.5	147.2	339.0	869.9	1351.4	1315.3	1113.0	468.2
80°	50.3	55.1	57.9	60.8	77.9	131.1	261.2	471.0	467.2	486.2	221.3
82.5°	32.3	36.1	38.9	40.8	46.5	62.7	77.9	105.4	114.0	189.0	88.3
85°	14.2	16.1	18.0	21.8	19.9	21.8	32.3	20.9	18.0	28.5	16.1
87.5°	0.0	0.0	2.8	4.7	3.8	1.9	5.7	3.8	2.8	2.8	2.8
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°	599.3	599.3	599.3	599.3	599.3	599.3	599.3	599.3	599.3	599.3	599.3
2.5°	605.0	594.5	572.7	551.8	539.4	523.3	509.0	495.7	494.8	491.0	484.3
5°	612.6	592.6	551.8	512.8	483.4	452.1	425.5	404.6	397.0	391.3	383.7
7.5°	620.1	588.8	528.0	471.0	424.5	380.8	349.5	321.0	312.4	304.9	300.1
10°	623.0	582.2	500.5	424.5	363.7	317.2	284.0	263.1	255.5	251.7	248.8
12.5°	631.5	578.4	474.8	380.8	310.5	267.8	244.1	231.7	228.9	226.0	223.2
15°	642.9	578.4	449.2	338.1	268.8	234.6	220.3	211.8	209.9	208.9	207.0
17.5°	655.3	578.4	424.5	302.0	238.4	212.7	202.3	197.5	196.6	195.6	194.7
20°	672.4	579.3	397.9	270.7	216.5	196.6	188.0	182.3	181.4	180.4	180.4
22.5°	689.5	581.2	372.3	246.9	202.3	184.2	173.8	168.1	166.2	166.2	166.2
25°	711.3	586.9	348.5	227.0	189.9	172.8	159.5	154.8	153.9	153.9	152.9
27.5°	737.0	593.6	327.6	211.8	177.6	159.5	146.3	141.5	139.6	139.6	138.7
30°	764.5	600.2	310.5	200.4	165.2	146.3	133.9	128.2	126.3	127.3	126.3
32.5°	794.9	609.7	297.3	192.8	153.9	134.9	123.5	116.8	115.9	115.9	114.9
35°	846.2	636.3	295.4	189.0	144.4	126.3	114.9	108.3	107.3	107.3	106.4
37.5°	901.3	666.7	303.9	187.1	136.8	118.7	108.3	101.6	100.7	100.7	100.7
40°	947.8	689.5	313.4	187.1	132.0	112.1	102.6	96.9	96.9	96.9	96.9
42.5°	979.1	691.4	311.5	187.1	128.2	107.3	98.8	93.1	93.1	94.0	93.1
45°	1025.7	700.9	303.9	184.2	125.4	103.5	95.0	90.2	89.3	90.2	90.2
47.5°	1080.8	718.0	296.3	172.8	124.4	99.7	92.1	86.4	85.5	86.4	85.5
50°	1133.0	733.2	292.5	157.6	122.5	95.9	88.3	82.6	81.7	82.6	81.7
52.5°	1176.7	739.8	285.9	147.2	117.8	92.1	84.5	78.8	76.9	77.9	77.9
55°	1211.8	737.9	276.4	138.7	109.2	88.3	79.8	75.0	72.2	72.2	71.2
57.5°	1244.1	738.9	267.8	130.1	99.7	82.6	76.0	70.3	66.5	65.5	64.6
60°	1256.4	734.1	252.6	118.7	90.2	77.9	71.2	64.6	60.8	59.8	58.9
62.5°	1239.3	717.0	232.7	98.8	81.7	72.2	66.5	59.8	56.0	55.1	54.1
65°	1190.9	684.7	202.3	77.9	74.1	65.5	60.8	56.0	51.3	49.4	48.4
67.5°	1108.3	638.2	164.3	62.7	65.5	59.8	57.0	51.3	45.6	43.7	42.7
70°	990.5	576.5	123.5	53.2	57.9	53.2	51.3	45.6	40.8	38.9	38.0
72.5°	825.3	476.7	86.4	45.6	50.3	46.5	44.6	40.8	36.1	33.2	33.2
75°	623.9	341.9	57.0	38.9	41.8	39.9	37.0	34.2	31.3	29.4	28.5
77.5°	268.8	133.0	35.1	29.4	34.2	33.2	29.4	27.5	26.6	24.7	24.7
80°	115.9	54.1	21.8	21.8	24.7	23.7	22.8	20.9	20.9	19.9	19.0
82.5°	42.7	21.8	13.3	16.1	18.0	16.1	16.1	16.1	16.1	15.2	15.2
85°	10.4	6.6	6.6	9.5	10.4	9.5	10.4	9.5	9.5	9.5	8.5
87.5°	2.8	2.8	3.8	3.8	3.8	3.8	3.8	2.8	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)