

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: P799106

Luminaire Tested: **ARCH1-60-727-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-60-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

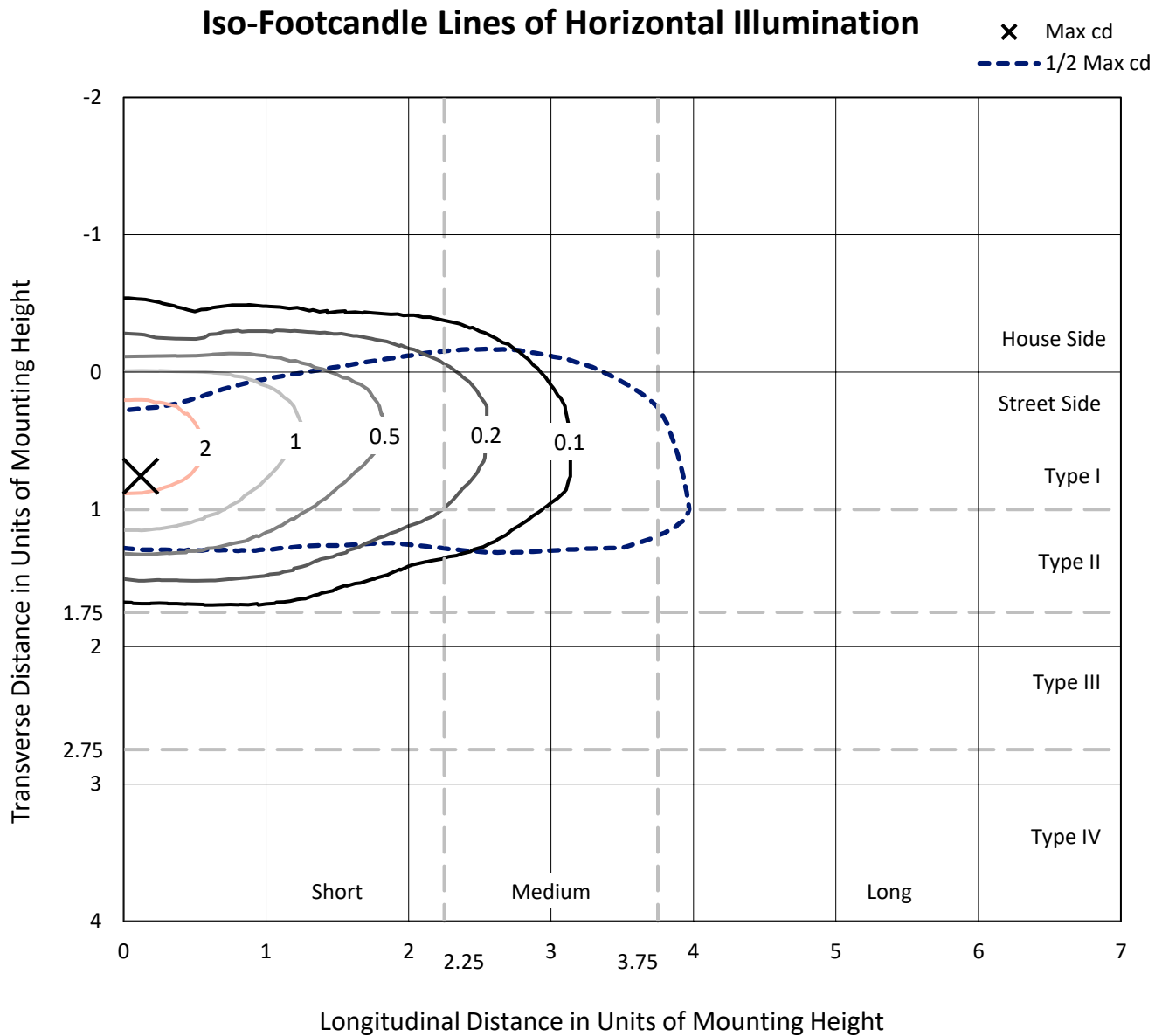
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4853 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 60
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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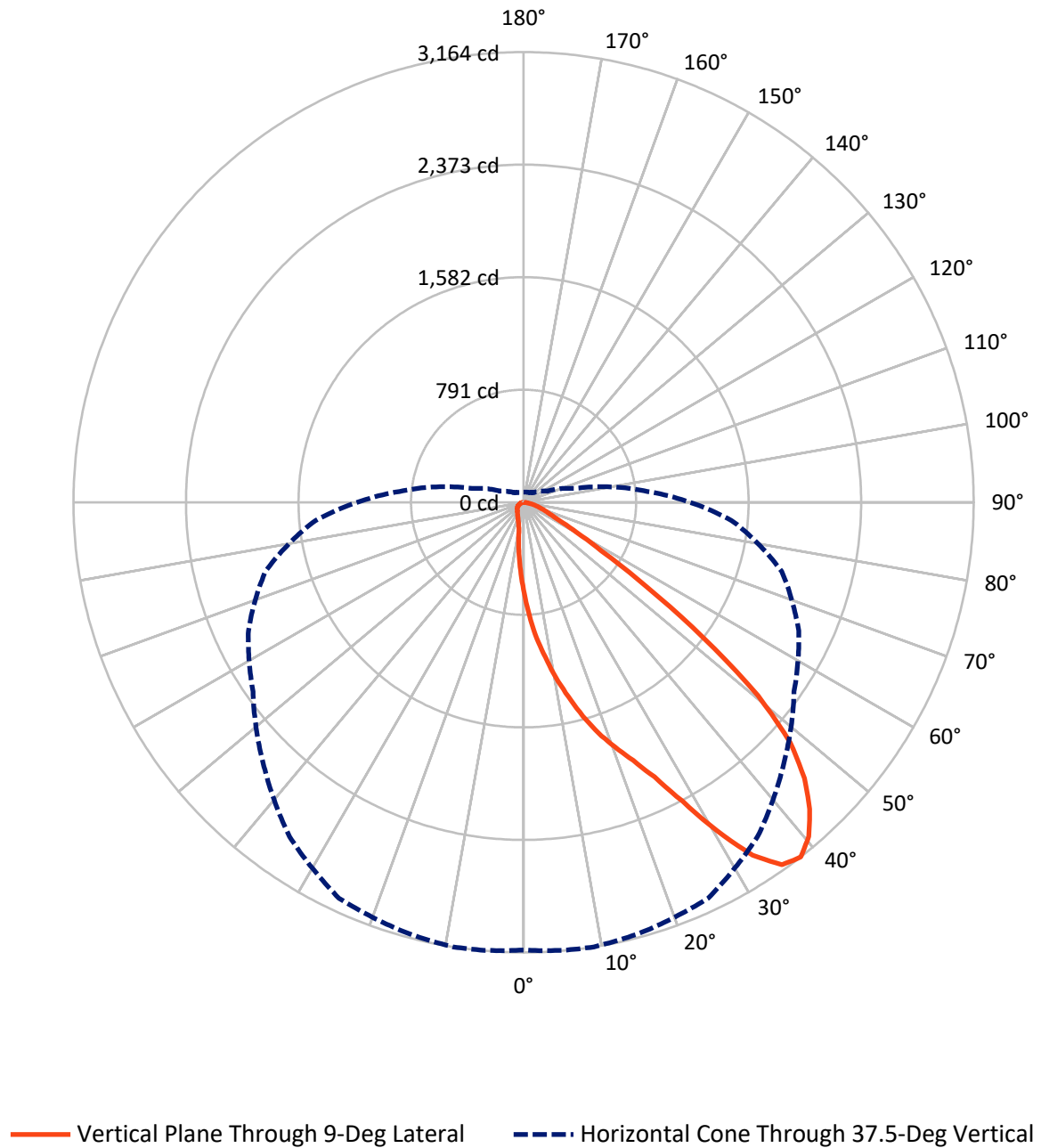


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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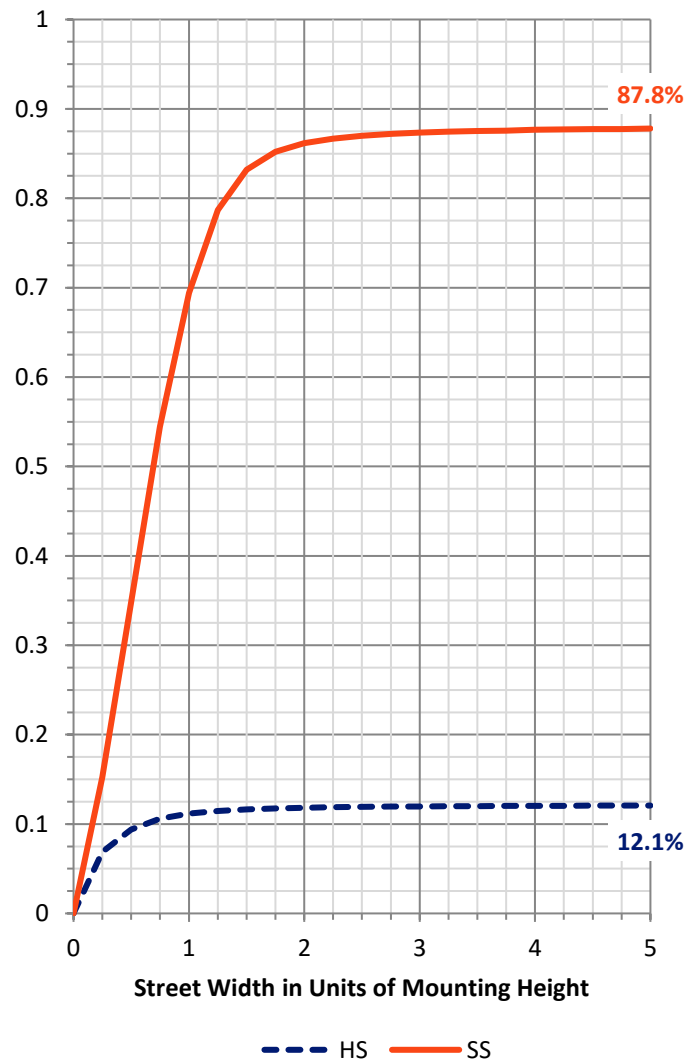
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	590.2	0.0	590.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4262.8	0.0	4262.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	4853.0	0.0	4853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.3
10°-20°	224.1	4.6
20°-30°	460.5	9.5
30°-40°	814.0	16.8
40°-50°	1081.3	22.3
50°-60°	1025.5	21.1
60°-70°	782.4	16.1
70°-80°	379.3	7.8
80°-90°	21.4	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°	4853.0	100.0
0°-180°	4853.0	100.0

Coefficient of Utilization



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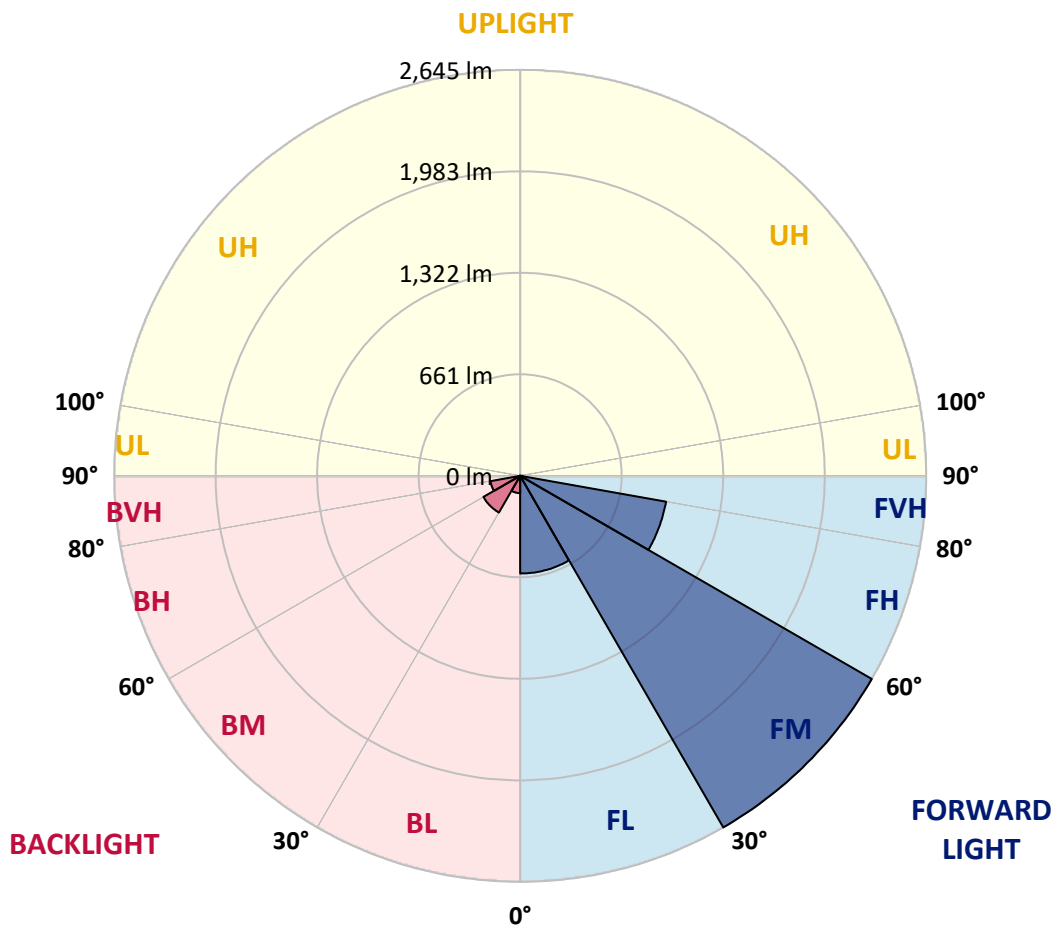
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	636.5	13.1			
FM	(30°-60°)	2644.6	54.5			
FH	(60°-80°)	964.8	19.9			G1/1800
FVH	(80°-90°)	16.9	0.3			G1/100
BL	(0°-30°)	112.6	2.3	B1/500		
BM	(30°-60°)	276.2	5.7	B1/1000		
BH	(60°-80°)	196.9	4.1	B1/500		G1/500
BVH	(80°-90°)	4.5	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5
2.5°	794.9	781.0	796.9	794.9	781.0	772.0	744.1	735.1	702.3	678.4	657.4
5°	958.3	944.3	958.3	954.3	934.4	912.5	866.6	836.7	778.0	726.2	679.4
7.5°	1093.8	1093.8	1099.7	1100.7	1076.8	1042.9	986.2	941.3	858.7	779.0	704.3
10°	1240.2	1241.2	1254.1	1245.2	1213.3	1167.5	1095.7	1039.0	939.4	834.8	728.2
12.5°	1396.6	1397.6	1401.6	1397.6	1359.7	1300.9	1214.3	1139.6	1025.0	898.5	761.0
15°	1553.0	1554.0	1558.9	1552.0	1510.1	1441.4	1342.8	1251.1	1115.7	970.2	800.9
17.5°	1699.4	1701.4	1705.4	1696.4	1652.6	1570.9	1470.3	1359.7	1212.3	1046.9	845.7
20°	1830.9	1832.9	1835.9	1823.9	1780.1	1698.4	1589.8	1474.3	1310.9	1125.6	894.5
22.5°	1963.4	1965.4	1970.3	1954.4	1905.6	1812.0	1705.4	1585.8	1415.5	1212.3	951.3
25°	2132.7	2134.7	2138.7	2115.8	2049.0	1939.5	1826.9	1704.4	1529.1	1309.9	1021.0
27.5°	2380.8	2378.8	2378.8	2336.9	2222.4	2079.9	1949.4	1824.9	1651.6	1414.5	1097.7
30°	2687.6	2682.6	2679.6	2622.8	2459.4	2238.3	2074.9	1937.5	1769.1	1525.1	1180.4
32.5°	2962.5	2962.5	2956.5	2896.7	2723.4	2451.5	2208.4	2047.0	1882.7	1636.6	1266.1
35°	3124.9	3131.8	3128.8	3084.0	2957.5	2680.6	2388.7	2178.5	2002.2	1753.2	1368.7
37.5°	3146.8	3160.7	3163.7	3136.8	3070.1	2867.9	2588.9	2321.0	2133.7	1878.7	1468.3
40°	3058.1	3088.0	3088.0	3084.0	3060.1	2956.5	2757.3	2486.3	2269.2	2009.2	1568.9
42.5°	2921.7	2952.5	2948.5	2963.5	2957.5	2935.6	2851.9	2640.7	2404.7	2143.7	1660.5
45°	2743.3	2775.2	2767.2	2794.1	2806.1	2830.0	2842.0	2748.3	2538.1	2290.1	1763.2
47.5°	2457.5	2511.2	2523.2	2571.0	2620.8	2695.5	2752.3	2787.2	2662.7	2447.5	1874.7
50°	2035.1	2110.8	2134.7	2235.3	2371.8	2526.2	2617.8	2739.4	2750.3	2608.9	1995.2
52.5°	1457.3	1545.0	1581.9	1747.2	2028.1	2297.1	2462.4	2633.8	2784.2	2763.3	2125.7
55°	942.3	1017.0	1052.9	1208.3	1581.9	2004.2	2279.1	2497.3	2765.3	2904.7	2275.2
57.5°	580.7	623.6	647.5	781.0	1124.6	1628.7	2039.1	2371.8	2707.5	3027.2	2430.6
60°	391.5	416.4	428.3	491.1	764.0	1217.3	1709.4	2240.3	2631.8	3109.9	2572.0
62.5°	260.0	268.0	279.9	318.8	504.0	854.7	1312.9	2005.2	2575.0	3114.9	2676.6
65°	201.2	205.2	210.2	227.1	310.8	597.7	923.4	1624.7	2490.3	3009.3	2709.5
67.5°	158.4	162.4	168.3	177.3	225.1	405.4	628.6	1190.4	2317.0	2844.0	2655.7
70°	124.5	127.5	131.5	139.5	175.3	293.9	415.4	790.9	1967.4	2686.6	2486.3
72.5°	98.6	101.6	105.6	113.6	142.4	215.2	284.9	493.1	1517.1	2494.3	2160.6
75°	77.7	79.7	82.7	90.6	114.6	167.3	193.2	294.9	1031.0	2142.7	1683.5
77.5°	38.8	47.8	54.8	62.8	83.7	115.6	128.5	163.4	435.3	1099.7	802.9
80°	22.9	27.9	29.9	34.9	54.8	69.7	69.7	65.7	137.5	422.4	327.7
82.5°	12.9	17.9	18.9	19.9	32.9	39.8	31.9	23.9	27.9	141.5	95.6
85°	4.0	6.0	7.0	8.0	11.0	12.0	11.0	10.0	8.0	13.9	9.0
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	2.0	2.0	3.0	3.0	3.0
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°	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5
2.5°	645.5	632.5	607.6	584.7	562.8	546.9	531.9	518.0	508.0	500.1	499.1
5°	654.5	628.6	580.7	535.9	495.1	461.2	432.3	409.4	392.5	380.5	379.5
7.5°	666.4	626.6	553.8	487.1	426.3	377.5	335.7	304.8	282.9	273.9	267.0
10°	676.4	624.6	527.0	438.3	358.6	296.8	247.0	216.2	200.2	194.2	191.3
12.5°	693.3	626.6	504.0	393.5	299.8	227.1	189.3	172.3	165.4	160.4	159.4
15°	718.2	635.5	482.1	349.6	240.1	183.3	161.4	150.4	143.4	142.4	141.5
17.5°	743.1	643.5	462.2	304.8	199.2	159.4	144.4	135.5	130.5	129.5	129.5
20°	772.0	653.5	440.3	262.0	170.3	143.4	131.5	124.5	118.5	117.5	117.5
22.5°	805.9	667.4	419.4	224.1	151.4	131.5	121.5	113.6	108.6	107.6	107.6
25°	851.7	688.3	402.4	196.2	138.5	121.5	112.6	105.6	101.6	99.6	99.6
27.5°	902.5	717.2	390.5	179.3	129.5	113.6	104.6	98.6	94.6	92.6	92.6
30°	959.3	749.1	382.5	172.3	124.5	106.6	98.6	92.6	87.7	86.7	86.7
32.5°	1022.0	785.9	377.5	173.3	123.5	101.6	92.6	86.7	82.7	80.7	80.7
35°	1091.8	826.8	374.5	179.3	125.5	97.6	87.7	81.7	77.7	75.7	75.7
37.5°	1169.5	874.6	374.5	185.3	130.5	96.6	82.7	76.7	73.7	71.7	71.7
40°	1242.2	925.4	378.5	192.3	135.5	96.6	78.7	73.7	69.7	67.7	67.7
42.5°	1299.0	954.3	381.5	199.2	138.5	95.6	74.7	69.7	66.7	64.7	64.7
45°	1363.7	985.2	375.5	202.2	138.5	93.6	71.7	66.7	63.8	61.8	61.8
47.5°	1435.4	1023.0	374.5	204.2	135.5	89.7	68.7	63.8	61.8	59.8	59.8
50°	1508.1	1064.9	376.5	203.2	131.5	83.7	64.7	61.8	58.8	56.8	56.8
52.5°	1590.8	1108.7	380.5	201.2	122.5	76.7	61.8	58.8	55.8	53.8	52.8
55°	1682.5	1156.5	388.5	197.2	110.6	69.7	58.8	55.8	51.8	49.8	48.8
57.5°	1788.1	1215.3	397.5	189.3	97.6	63.8	55.8	51.8	45.8	42.8	41.8
60°	1888.7	1282.0	407.4	170.3	84.7	57.8	52.8	46.8	40.8	38.8	37.9
62.5°	1983.3	1347.8	412.4	136.5	71.7	52.8	49.8	42.8	36.9	34.9	33.9
65°	2044.1	1419.5	401.4	92.6	58.8	48.8	45.8	39.8	33.9	30.9	30.9
67.5°	2048.0	1453.4	363.6	60.8	47.8	43.8	41.8	35.9	29.9	27.9	26.9
70°	1947.4	1402.6	277.9	47.8	39.8	37.9	37.9	31.9	25.9	23.9	22.9
72.5°	1716.3	1242.2	177.3	38.8	33.9	31.9	31.9	26.9	22.9	19.9	18.9
75°	1354.7	958.3	94.6	31.9	27.9	26.9	24.9	21.9	18.9	16.9	15.9
77.5°	622.6	422.4	43.8	22.9	20.9	20.9	18.9	15.9	14.9	12.9	12.9
80°	246.0	143.4	21.9	14.9	13.9	13.9	13.9	11.0	11.0	9.0	8.0
82.5°	67.7	29.9	11.0	9.0	9.0	9.0	8.0	7.0	7.0	6.0	6.0
85°	7.0	5.0	5.0	5.0	5.0	4.0	4.0	3.0	2.0	2.0	2.0
87.5°	3.0	3.0	3.0	3.0	3.0	2.0	1.0	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)