

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: P799124

Luminaire Tested: **ARCH1-60-730-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-60-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

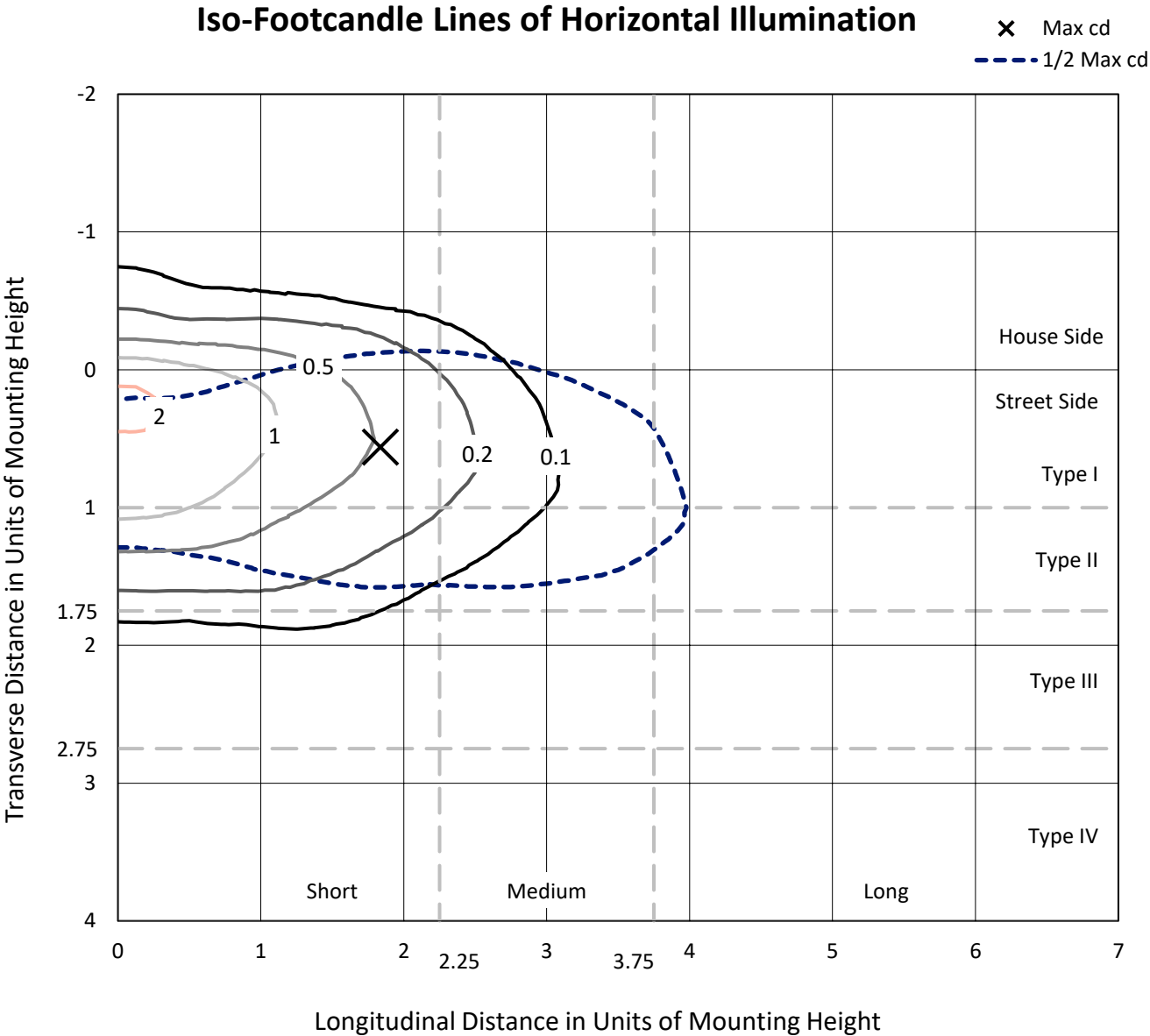
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4737 lumens
Efficiency: N/A
Efficacy: 78.9 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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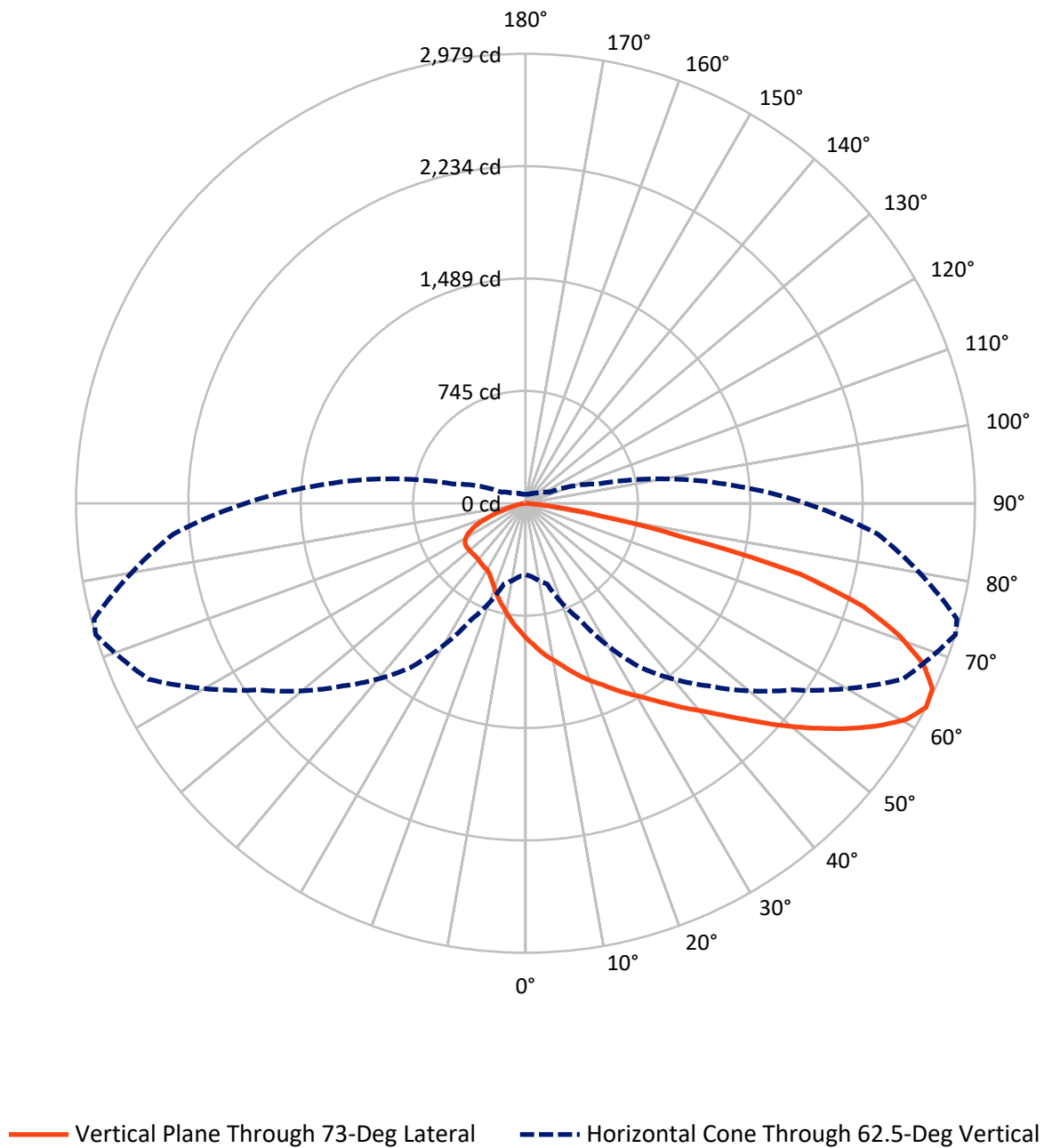


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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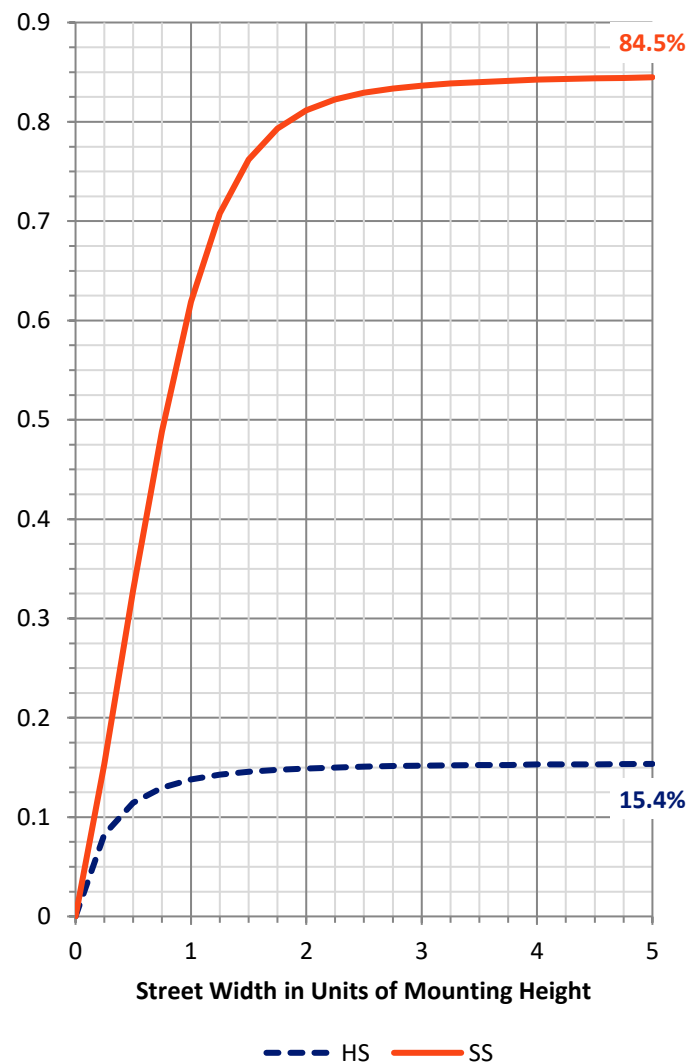
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	734.3	0.0	734.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4002.7	0.0	4002.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	4737.0	0.0	4737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.8
10°-20°	261.5	5.5
20°-30°	435.2	9.2
30°-40°	656.7	13.9
40°-50°	917.9	19.4
50°-60°	1013.9	21.4
60°-70°	883.2	18.6
70°-80°	446.1	9.4
80°-90°	35.8	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°	4737.0	100.0
0°-180°	4737.0	100.0

Coefficient of Utilization



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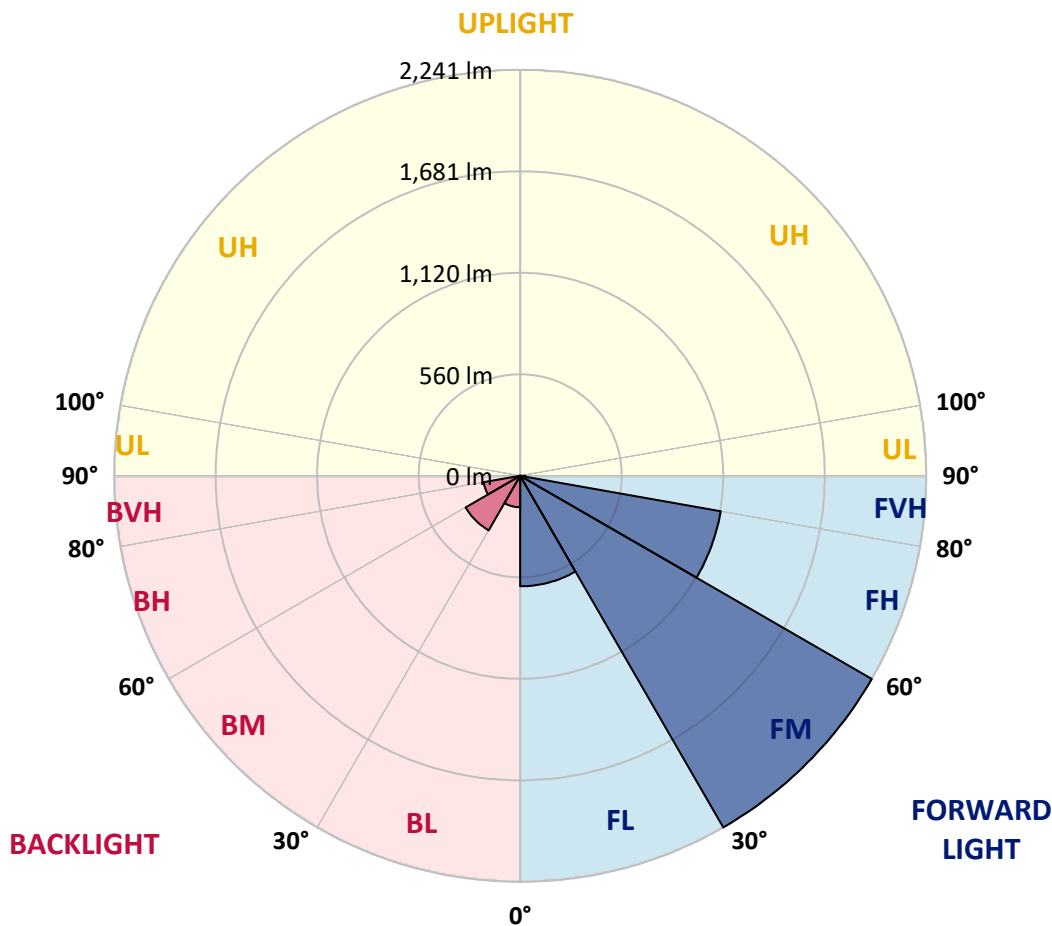
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	609.8	12.9			
FM	(30°-60°)	2240.8	47.3			
FH	(60°-80°)	1124.4	23.7			G1/1800
FVH	(80°-90°)	27.7	0.6			G1/100
BL	(0°-30°)	173.6	3.7	B1/500		
BM	(30°-60°)	347.7	7.3	B1/1000		
BH	(60°-80°)	205.0	4.3	B1/500		G1/500
BVH	(80°-90°)	8.1	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°	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0
2.5°	1020.8	1032.2	1026.0	1030.1	1009.5	996.0	980.6	950.6	934.1	932.1	912.4
5°	1170.5	1182.9	1172.6	1169.5	1133.3	1102.4	1067.3	1014.6	979.5	973.3	930.0
7.5°	1320.2	1331.5	1319.1	1309.8	1261.3	1206.6	1155.0	1077.6	1022.9	1012.6	944.4
10°	1425.4	1435.8	1426.5	1417.2	1366.6	1310.9	1237.6	1136.4	1062.1	1045.6	953.7
12.5°	1504.9	1511.1	1507.0	1498.7	1451.2	1391.4	1321.2	1202.5	1106.5	1085.8	968.2
15°	1569.9	1580.3	1575.1	1568.9	1523.5	1463.6	1396.5	1271.6	1158.1	1132.3	989.9
17.5°	1613.3	1620.5	1621.5	1621.5	1581.3	1522.5	1457.4	1334.6	1209.7	1176.7	1010.5
20°	1632.9	1641.2	1646.3	1654.6	1621.5	1571.0	1504.9	1388.3	1258.2	1221.1	1030.1
22.5°	1642.2	1649.4	1662.8	1681.4	1654.6	1612.3	1551.4	1437.8	1306.7	1267.5	1052.8
25°	1649.4	1658.7	1678.3	1713.4	1694.8	1658.7	1606.1	1494.6	1364.5	1324.3	1085.8
27.5°	1669.0	1680.4	1699.0	1741.3	1718.6	1701.0	1663.9	1555.5	1425.4	1384.1	1126.1
30°	1737.2	1746.4	1745.4	1772.2	1744.4	1739.2	1713.4	1614.3	1484.3	1443.0	1173.6
32.5°	1861.0	1870.3	1847.6	1837.3	1776.4	1777.4	1767.1	1677.3	1554.5	1512.1	1228.3
35°	1994.2	2004.5	1974.6	1957.0	1854.8	1824.9	1830.0	1755.7	1632.9	1590.6	1296.4
37.5°	2112.9	2125.3	2099.4	2073.6	1970.4	1901.3	1900.2	1843.5	1722.7	1679.4	1371.8
40°	2177.9	2192.3	2207.8	2193.4	2085.0	2008.6	1975.6	1933.3	1811.5	1767.1	1453.3
42.5°	2208.9	2249.1	2277.0	2267.7	2178.9	2101.5	2062.3	2027.2	1919.8	1876.5	1550.3
45°	2122.2	2123.2	2182.0	2232.6	2216.1	2164.5	2157.2	2132.5	2043.7	2002.4	1659.7
47.5°	2013.8	2005.5	2046.8	2136.6	2183.1	2196.5	2238.8	2249.1	2185.1	2143.8	1771.2
50°	1753.7	1758.8	1893.0	2022.0	2112.9	2199.6	2296.6	2368.8	2330.7	2291.4	1888.9
52.5°	1426.5	1438.9	1592.6	1876.5	2020.0	2168.6	2330.7	2488.6	2479.3	2442.1	2006.6
55°	1143.7	1163.3	1326.3	1633.9	1901.3	2099.4	2345.1	2598.0	2633.1	2599.0	2122.2
57.5°	874.3	894.9	1032.2	1348.0	1749.5	1986.9	2334.8	2694.0	2776.6	2754.9	2228.5
60°	658.5	679.2	766.9	1093.1	1559.6	1861.0	2283.2	2756.9	2905.6	2882.9	2305.9
62.5°	471.7	488.2	553.2	850.5	1328.4	1711.3	2156.2	2758.0	2978.9	2960.3	2343.0
65°	339.6	339.6	392.2	606.9	1111.7	1531.7	1964.2	2631.0	2963.4	2958.2	2317.2
67.5°	244.6	246.7	289.0	424.2	886.6	1314.0	1715.5	2405.0	2843.6	2869.4	2224.3
70°	173.4	178.6	198.2	296.2	669.9	1037.3	1449.2	2108.7	2627.9	2673.3	2044.7
72.5°	134.2	137.3	150.7	206.4	489.3	771.0	1155.0	1778.4	2339.9	2391.6	1800.1
75°	103.2	106.3	116.6	151.7	350.9	540.9	820.6	1380.0	1886.8	1978.7	1446.1
77.5°	75.3	79.5	86.7	110.4	204.4	343.7	497.5	776.2	1041.5	1084.8	757.6
80°	35.1	40.3	50.6	71.2	110.4	162.1	176.5	299.3	500.6	523.3	410.8
82.5°	19.6	24.8	28.9	43.4	55.7	57.8	59.9	75.3	188.9	208.5	172.4
85°	9.3	12.4	13.4	18.6	18.6	16.5	19.6	14.5	31.0	37.2	36.1
87.5°	0.0	1.0	2.1	5.2	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°	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0
2.5°	903.2	889.7	858.8	831.9	814.4	798.9	778.3	769.0	752.5	755.6	746.3
5°	908.3	883.5	828.8	778.3	741.1	708.1	671.9	651.3	628.6	626.5	619.3
7.5°	911.4	873.2	794.8	723.6	666.8	616.2	567.7	540.9	513.0	506.8	500.6
10°	908.3	857.7	759.7	666.8	591.4	528.5	473.8	439.7	410.8	403.6	397.4
12.5°	911.4	849.5	726.7	614.1	524.3	453.1	391.2	356.1	329.3	322.0	317.9
15°	918.6	844.3	698.8	566.7	464.5	385.0	324.1	294.2	272.5	265.3	263.2
17.5°	924.8	839.2	668.9	520.2	404.6	325.1	272.5	247.7	229.1	221.9	219.9
20°	933.1	831.9	638.9	475.8	352.0	277.7	231.2	209.5	195.1	189.9	188.9
22.5°	940.3	826.8	611.0	431.4	303.5	239.5	200.2	182.7	172.4	167.2	167.2
25°	958.9	828.8	587.3	390.2	267.3	209.5	176.5	163.1	154.8	151.7	151.7
27.5°	980.6	837.1	568.7	355.1	236.4	186.8	160.0	148.6	144.5	140.4	141.4
30°	1011.5	853.6	556.3	326.2	213.7	169.3	146.6	138.3	134.2	133.2	133.2
32.5°	1050.8	880.4	555.3	307.6	197.1	155.9	137.3	130.1	128.0	127.0	127.0
35°	1097.2	904.2	549.1	299.3	186.8	146.6	130.1	124.9	123.9	123.9	123.9
37.5°	1152.9	943.4	545.0	288.0	181.7	141.4	124.9	120.8	120.8	120.8	120.8
40°	1210.7	975.4	538.8	277.7	179.6	138.3	121.8	116.6	116.6	116.6	116.6
42.5°	1279.9	1021.9	536.7	272.5	176.5	136.2	117.7	111.5	112.5	112.5	113.5
45°	1363.5	1074.5	535.7	267.3	175.5	134.2	113.5	106.3	107.3	106.3	106.3
47.5°	1448.1	1135.4	538.8	264.2	174.4	132.1	110.4	101.2	101.2	100.1	100.1
50°	1536.9	1191.1	540.9	261.1	172.4	128.0	105.3	97.0	95.0	92.9	93.9
52.5°	1620.5	1242.7	541.9	256.0	166.2	121.8	101.2	91.9	88.8	85.7	86.7
55°	1704.1	1292.3	544.0	249.8	157.9	115.6	96.0	86.7	82.6	78.4	78.4
57.5°	1779.5	1335.6	538.8	234.3	148.6	109.4	90.8	80.5	74.3	70.2	70.2
60°	1831.1	1366.6	523.3	211.6	136.2	102.2	85.7	74.3	67.1	64.0	64.0
62.5°	1855.9	1371.8	495.4	174.4	120.8	95.0	79.5	68.1	61.9	59.9	59.9
65°	1832.1	1349.1	452.1	131.1	104.2	86.7	73.3	63.0	56.8	51.6	51.6
67.5°	1749.5	1285.1	392.2	99.1	88.8	78.4	67.1	57.8	50.6	46.4	46.4
70°	1583.4	1151.9	303.5	79.5	75.3	68.1	60.9	51.6	45.4	40.3	40.3
72.5°	1365.6	976.4	213.7	64.0	64.0	57.8	51.6	45.4	39.2	35.1	35.1
75°	1047.7	722.5	143.5	51.6	52.6	48.5	42.3	37.2	33.0	29.9	29.9
77.5°	571.8	357.1	87.7	38.2	39.2	37.2	33.0	29.9	27.9	24.8	24.8
80°	277.7	156.9	50.6	26.8	27.9	26.8	24.8	21.7	21.7	19.6	19.6
82.5°	116.6	58.8	26.8	18.6	18.6	16.5	15.5	15.5	15.5	14.5	14.5
85°	28.9	11.4	11.4	10.3	10.3	10.3	9.3	9.3	9.3	7.2	8.3
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)