

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: P1210791

Luminaire Tested: **ARCH3-70-740-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-740-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12060 lumens
Efficiency: N/A
Efficacy: 165.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.1
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

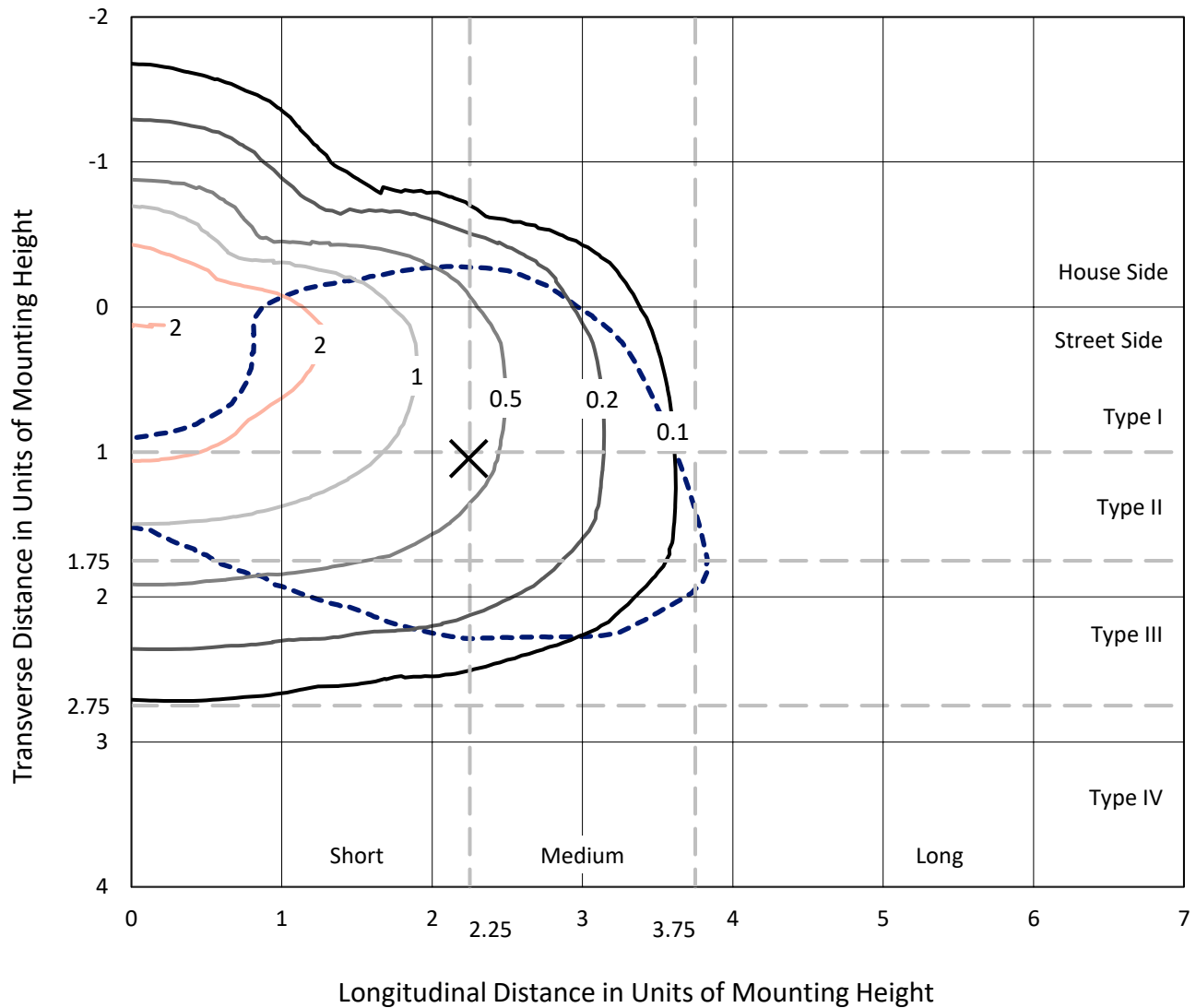


REPORT NUMBER: P1210791

CATALOG NUMBER: ARCH3-70-740-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

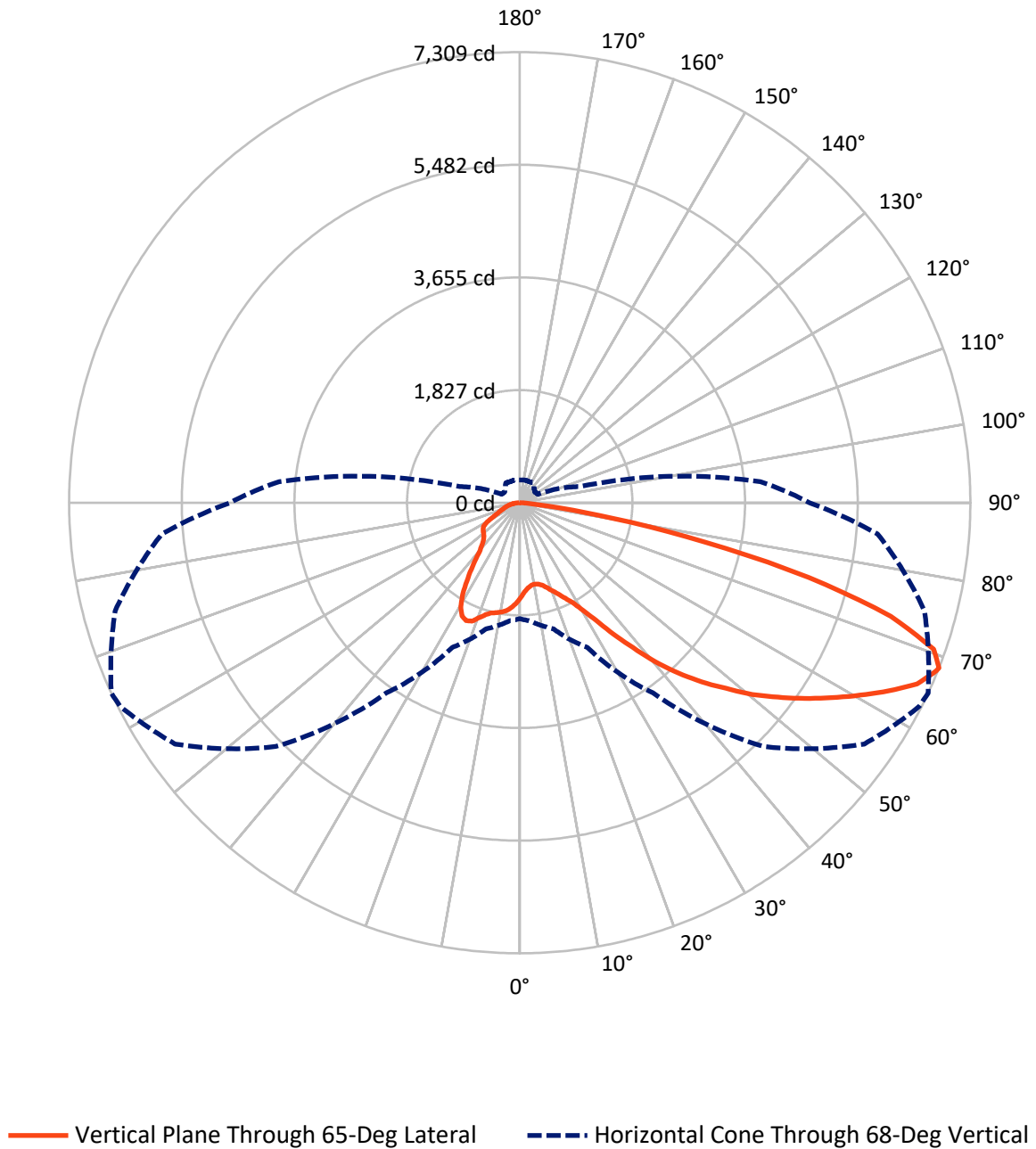
✕ Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P1210791
CATALOG NUMBER: ARCH3-70-740-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210791

CATALOG NUMBER: ARCH3-70-740-U-T3RE

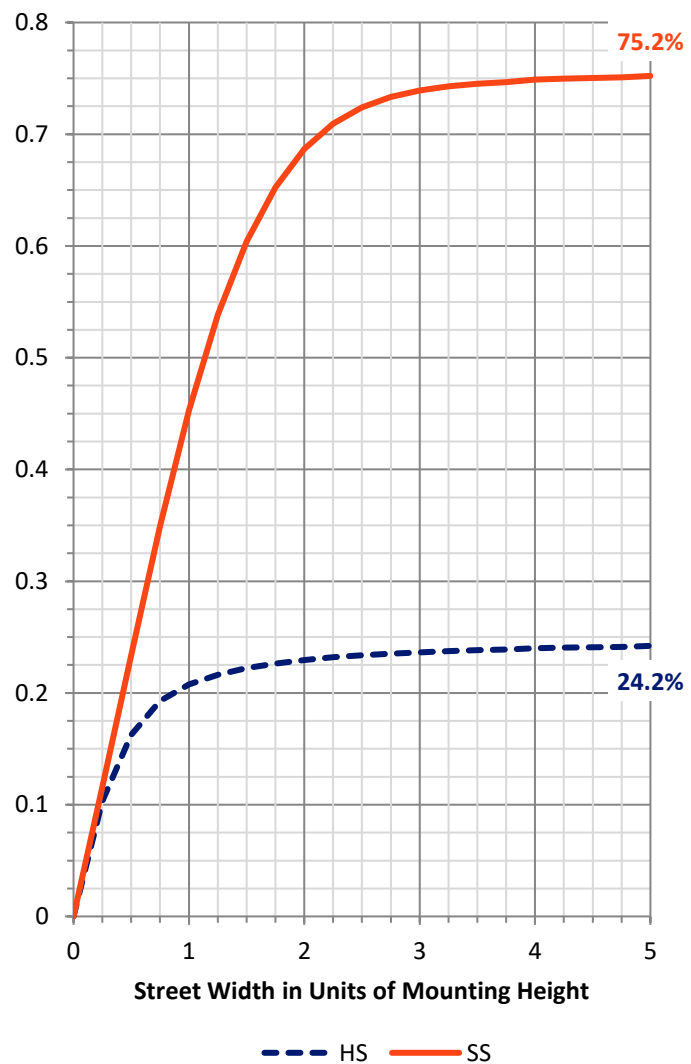
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2956.8	0.0	2956.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	9103.2	0.0	9103.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	12060.0	0.0	12060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	1.2
10°-20°	479.6	4.0
20°-30°	868.0	7.2
30°-40°	1365.4	11.3
40°-50°	2033.6	16.9
50°-60°	2667.7	22.1
60°-70°	2917.3	24.2
70°-80°	1443.5	12.0
80°-90°	137.7	1.1
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°	12060.0	100.0
0°-180°	12060.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210791

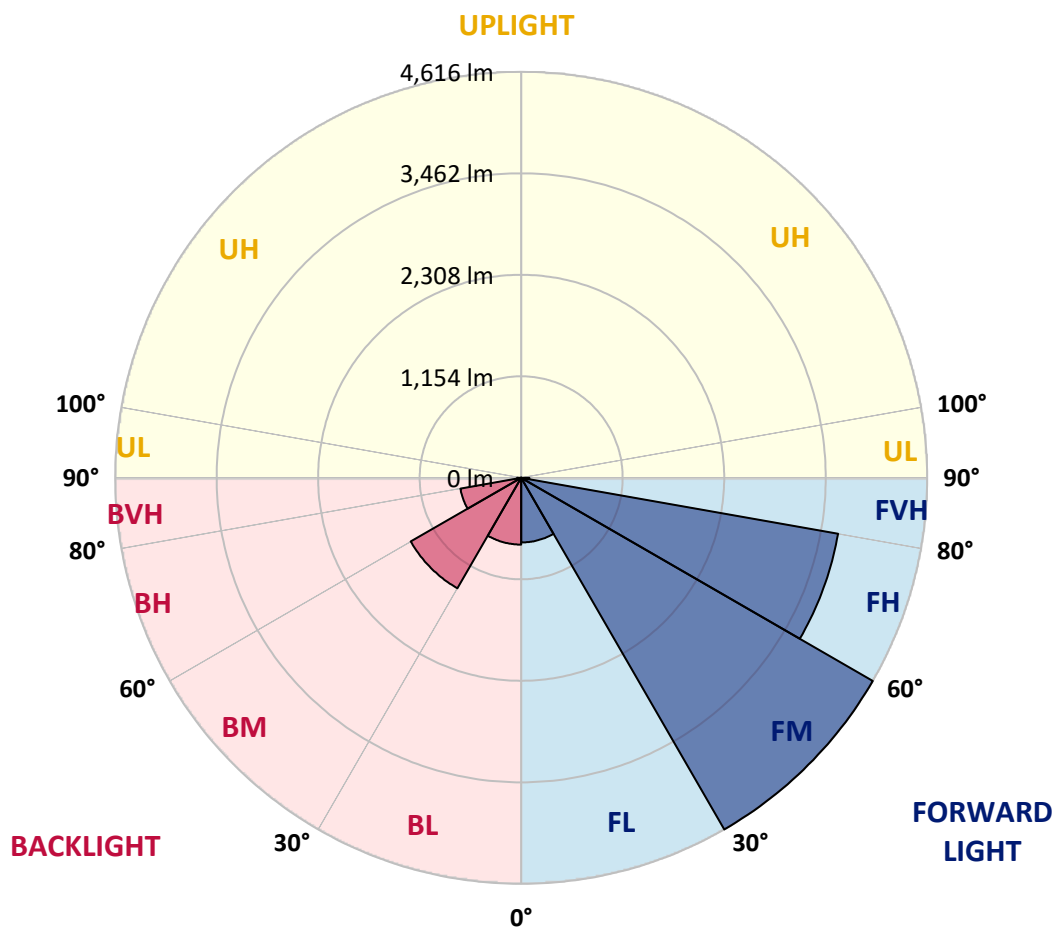
CATALOG NUMBER: ARCH3-70-740-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	735.2	6.1			
FM	(30°-60°)	4616.4	38.3			
FH	(60°-80°)	3659.0	30.3			G2/5000
FVH	(80°-90°)	92.6	0.8			G1/100
BL	(0°-30°)	759.6	6.3	B2/1000		
BM	(30°-60°)	1450.3	12.0	B2/2500		
BH	(60°-80°)	701.8	5.8	B2/1000		G2/1000
BVH	(80°-90°)	45.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P1210791

CATALOG NUMBER: ARCH3-70-740-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1
2.5°	1345.2	1342.1	1349.8	1357.6	1374.7	1394.9	1422.9	1446.3	1449.4	1492.9	1527.1
5°	1265.9	1261.2	1269.0	1278.3	1286.1	1311.0	1340.5	1374.7	1388.7	1452.5	1525.6
7.5°	1273.6	1272.1	1275.2	1272.1	1272.1	1283.0	1303.2	1337.4	1353.0	1429.2	1533.3
10°	1318.7	1321.8	1323.4	1314.1	1304.7	1300.1	1306.3	1329.6	1340.5	1430.7	1567.6
12.5°	1393.4	1398.1	1399.6	1382.5	1370.1	1349.8	1339.0	1348.3	1356.1	1446.3	1615.8
15°	1494.5	1497.6	1486.7	1475.8	1444.7	1419.8	1393.4	1385.6	1388.7	1478.9	1670.2
17.5°	1612.7	1608.0	1608.0	1581.6	1541.1	1502.2	1458.7	1452.5	1452.5	1531.8	1748.0
20°	1741.7	1746.4	1732.4	1696.6	1656.2	1595.6	1552.0	1524.0	1527.1	1592.4	1842.8
22.5°	1928.3	1936.1	1898.8	1847.5	1785.3	1715.3	1653.1	1608.0	1609.5	1671.8	1940.8
25°	2129.0	2132.1	2108.7	2040.3	1956.3	1856.8	1774.4	1716.8	1715.3	1760.4	2066.8
27.5°	2334.2	2348.2	2301.6	2236.3	2158.5	2034.1	1925.2	1847.5	1835.0	1895.7	2223.8
30°	2545.7	2562.8	2517.7	2454.0	2357.6	2251.8	2122.7	2032.5	2024.8	2105.6	2433.8
32.5°	2758.8	2763.4	2727.7	2674.8	2587.7	2488.2	2384.0	2284.5	2276.7	2408.9	2705.9
35°	2933.0	2946.9	2922.1	2909.6	2845.9	2754.1	2653.0	2595.5	2615.7	2785.2	3058.9
37.5°	3142.9	3156.9	3128.9	3125.8	3105.6	3026.3	2956.3	2960.9	2981.2	3211.3	3430.6
40°	3446.1	3461.7	3390.2	3359.1	3359.1	3281.3	3258.0	3368.4	3394.8	3631.2	3817.8
42.5°	3702.7	3727.6	3685.6	3665.4	3604.8	3550.3	3578.3	3733.8	3778.9	4032.4	4155.3
45°	3827.1	3845.8	3895.6	3954.7	3895.6	3800.7	3906.5	4082.2	4145.9	4402.5	4492.7
47.5°	3894.0	3911.1	3968.7	4127.3	4167.7	4088.4	4237.7	4457.0	4500.5	4769.5	4814.6
50°	3903.3	3957.8	4032.4	4191.0	4376.1	4387.0	4570.5	4838.0	4889.3	5130.3	5097.7
52.5°	3827.1	3848.9	4002.9	4270.4	4475.6	4662.2	4932.8	5203.4	5240.7	5469.3	5348.0
55°	3702.7	3733.8	3887.8	4251.7	4572.0	4923.5	5301.4	5562.7	5604.6	5799.0	5579.8
57.5°	3590.8	3606.3	3771.2	4197.3	4668.5	5184.8	5629.5	5937.4	5965.4	6088.3	5750.8
60°	3466.4	3483.5	3648.3	4080.6	4740.0	5382.3	5971.7	6315.3	6340.2	6393.1	5949.9
62.5°	3144.4	3189.5	3396.4	3887.8	4721.3	5607.8	6337.1	6688.6	6719.7	6662.1	6106.9
65°	2553.5	2617.3	2870.7	3450.8	4547.2	5753.9	6635.7	7032.2	7085.1	6864.3	6148.9
67.5°	1982.8	2027.9	2231.6	2738.6	3936.0	5680.8	6828.5	7268.6	7284.2	6831.6	5915.7
68°	1880.1	1925.2	2119.6	2589.3	3766.5	5593.8	6823.9	7274.8	7309.1	6795.9	5825.5
70°	1438.5	1489.8	1674.9	2051.2	3035.6	5040.1	6539.3	7125.5	7120.9	6363.5	5265.6
72.5°	898.9	928.4	1055.9	1293.9	2007.7	3834.9	5550.2	6284.2	6296.7	5187.9	4038.6
75°	570.7	570.7	564.5	626.7	1029.5	2184.9	4125.7	4838.0	4847.3	3632.8	2545.7
77.5°	496.1	482.1	415.2	351.5	410.6	849.1	2441.5	3124.2	3072.9	1956.3	1208.3
80°	418.3	395.0	340.6	283.0	264.4	265.9	937.7	1586.2	1517.8	704.5	401.2
82.5°	301.7	281.5	256.6	222.4	203.7	158.6	195.9	458.8	447.9	203.7	130.6
85°	163.3	147.7	144.6	146.2	122.9	98.0	82.4	101.1	101.1	88.6	74.6
87.5°	57.5	42.0	49.8	56.0	48.2	40.4	32.7	38.9	40.4	38.9	35.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210791

CATALOG NUMBER: ARCH3-70-740-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1	1541.1
2.5°	1547.3	1562.9	1600.2	1632.9	1656.2	1676.4	1687.3	1692.0	1702.9	1704.4	1701.3
5°	1559.8	1600.2	1656.2	1704.4	1730.8	1741.7	1744.8	1746.4	1741.7	1744.8	1741.7
7.5°	1592.4	1643.8	1723.1	1765.1	1769.7	1752.6	1754.2	1748.0	1754.2	1760.4	1760.4
10°	1642.2	1707.5	1782.2	1797.7	1777.5	1768.2	1786.8	1824.2	1836.6	1853.7	1853.7
12.5°	1707.5	1785.3	1838.1	1824.2	1805.5	1836.6	1891.0	1928.3	1940.8	1947.0	1942.3
15°	1782.2	1866.1	1892.6	1845.9	1880.1	1947.0	1965.7	1943.9	1912.8	1898.8	1906.6
17.5°	1877.0	1947.0	1931.5	1900.4	1978.1	1987.4	1926.8	1856.8	1807.0	1788.4	1800.8
20°	1976.6	2037.2	1965.7	1979.7	2027.9	1928.3	1813.3	1723.1	1679.5	1671.8	1684.2
22.5°	2082.3	2121.2	1999.9	2071.4	1999.9	1797.7	1659.3	1612.7	1601.8	1614.2	1625.1
25°	2202.0	2197.4	2059.0	2099.4	1895.7	1637.5	1555.1	1552.0	1552.0	1559.8	1575.3
27.5°	2337.3	2264.3	2118.1	2062.1	1715.3	1505.4	1489.8	1491.4	1486.7	1488.2	1496.0
30°	2494.4	2354.4	2183.4	1939.2	1513.1	1405.8	1399.6	1394.9	1384.1	1380.9	1384.1
32.5°	2691.9	2449.3	2250.3	1737.1	1335.8	1303.2	1300.1	1275.2	1248.8	1245.6	1256.5
35°	2942.3	2621.9	2284.5	1483.6	1189.7	1188.1	1177.2	1138.3	1104.1	1104.1	1096.4
37.5°	3228.4	2844.3	2298.5	1236.3	1068.4	1076.1	1045.0	995.3	968.8	953.3	958.0
40°	3520.8	3097.8	2296.9	1020.2	962.6	964.2	940.8	880.2	814.9	776.0	785.3
42.5°	3802.3	3328.0	2256.5	905.1	877.1	872.4	853.8	771.3	716.9	685.8	687.4
45°	4027.8	3565.9	2194.3	836.7	799.3	807.1	765.1	715.4	665.6	637.6	636.0
47.5°	4253.2	3746.3	2094.7	794.7	741.8	727.8	710.7	676.5	639.2	608.1	609.6
50°	4458.5	3900.2	2001.4	766.7	688.9	653.1	656.3	636.0	603.4	575.4	573.8
52.5°	4603.1	4001.3	1950.1	751.1	625.2	586.3	597.2	586.3	555.2	535.0	533.4
55°	4747.8	4079.1	1967.2	730.9	555.2	524.1	542.7	539.6	522.5	516.3	517.9
57.5°	4864.4	4138.2	2027.9	693.6	488.3	469.6	500.7	491.4	479.0	480.5	480.5
60°	4977.9	4214.4	2099.4	608.1	430.8	432.3	461.9	444.8	437.0	451.0	452.5
62.5°	5096.1	4296.8	2040.3	483.6	381.0	391.9	426.1	412.1	415.2	435.4	441.7
65°	5082.1	4289.0	1662.4	396.6	337.5	359.2	410.6	405.9	407.4	415.2	418.3
67.5°	4796.0	4015.3	1143.0	337.5	306.4	332.8	398.1	379.4	381.0	376.3	377.9
68°	4699.6	3918.9	1007.7	328.1	300.1	326.6	391.9	374.8	376.3	371.7	370.1
70°	4173.9	3355.9	637.6	289.3	278.4	309.5	360.8	354.6	353.0	349.9	349.9
72.5°	3181.8	2477.3	335.9	250.4	253.5	283.0	321.9	334.4	326.6	328.1	337.5
75°	2107.2	1489.8	233.3	214.6	222.4	242.6	286.1	311.0	303.2	307.9	303.2
77.5°	1115.0	802.4	186.6	181.9	181.9	195.9	236.4	275.3	275.3	272.1	267.5
80°	365.5	283.0	149.3	143.1	146.2	154.0	189.7	225.5	230.2	223.9	220.8
82.5°	122.9	130.6	112.0	104.2	107.3	113.5	143.1	172.6	174.2	161.7	158.6
85°	76.2	87.1	70.0	68.4	68.4	70.0	87.1	94.9	87.1	77.8	80.9
87.5°	35.8	43.5	32.7	28.0	23.3	20.2	15.6	6.2	6.2	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)