

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: P798980

Luminaire Tested: **ARCH1-50-727-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798980
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: ARCH1-50-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

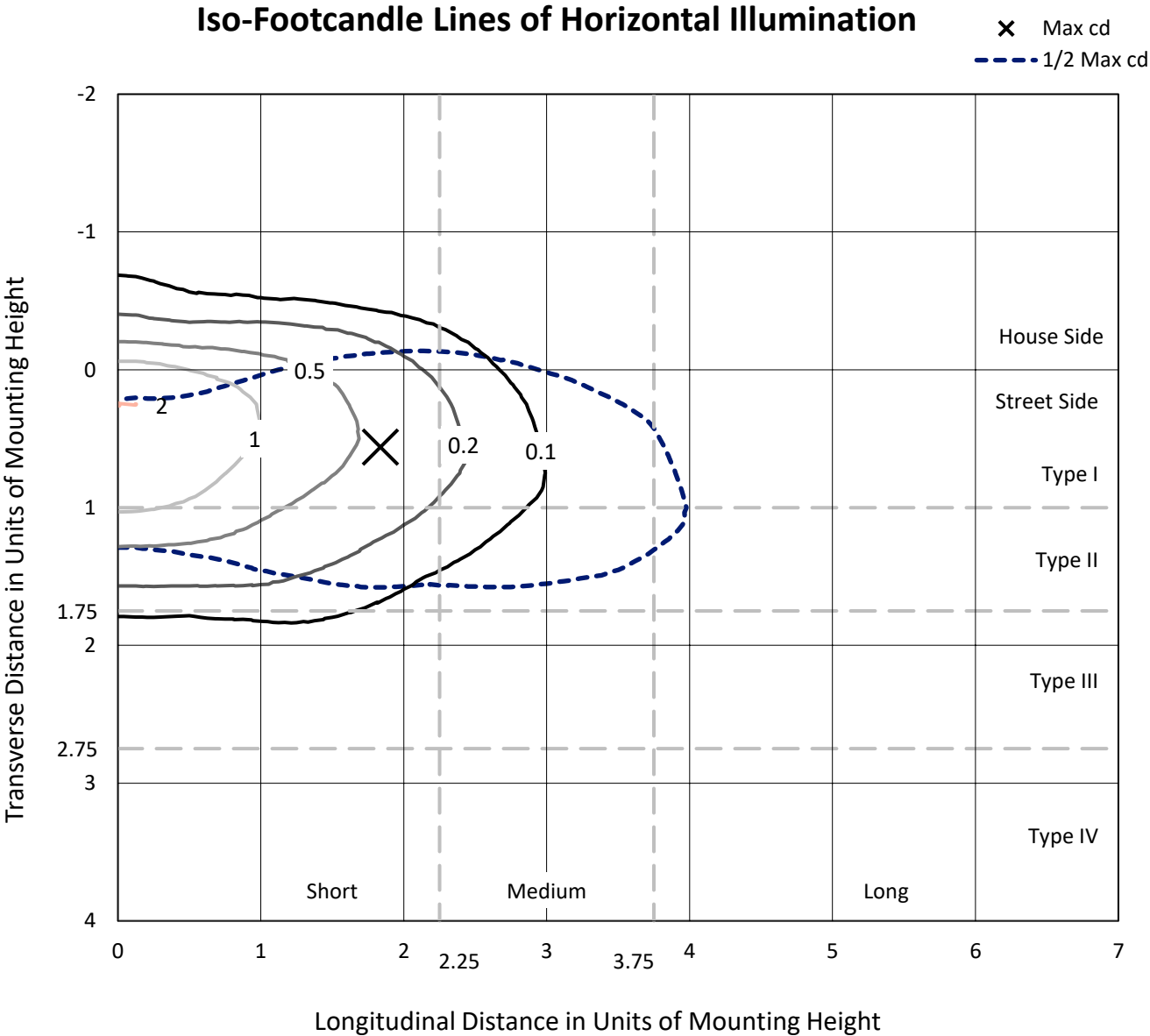
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4218 lumens
Efficiency: N/A
Efficacy: 79.6 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): 53
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

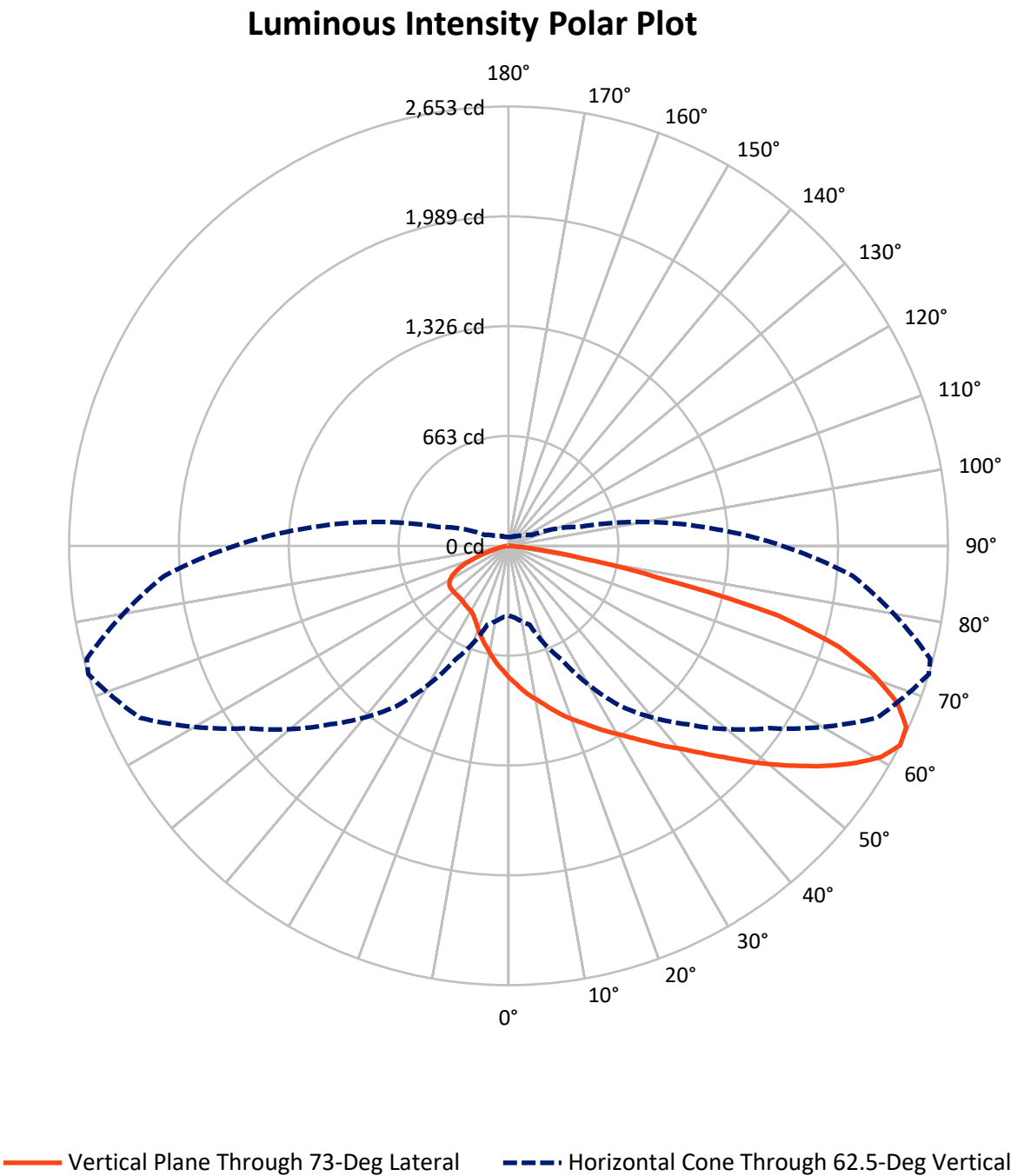


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Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type II - Short - N/A

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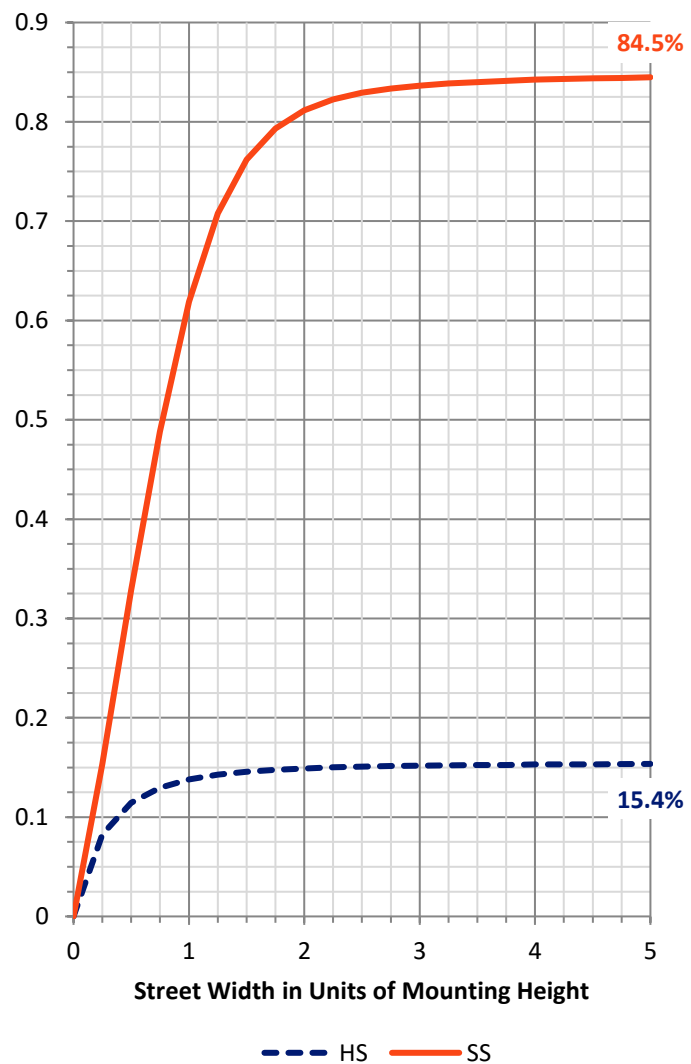
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	653.9	0.0	653.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3564.2	0.0	3564.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	4218.0	0.0	4218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	1.8
10°-20°	232.8	5.5
20°-30°	387.5	9.2
30°-40°	584.8	13.9
40°-50°	817.3	19.4
50°-60°	902.8	21.4
60°-70°	786.4	18.6
70°-80°	397.3	9.4
80°-90°	31.9	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°	4218.0	100.0
0°-180°	4218.0	100.0

Coefficient of Utilization



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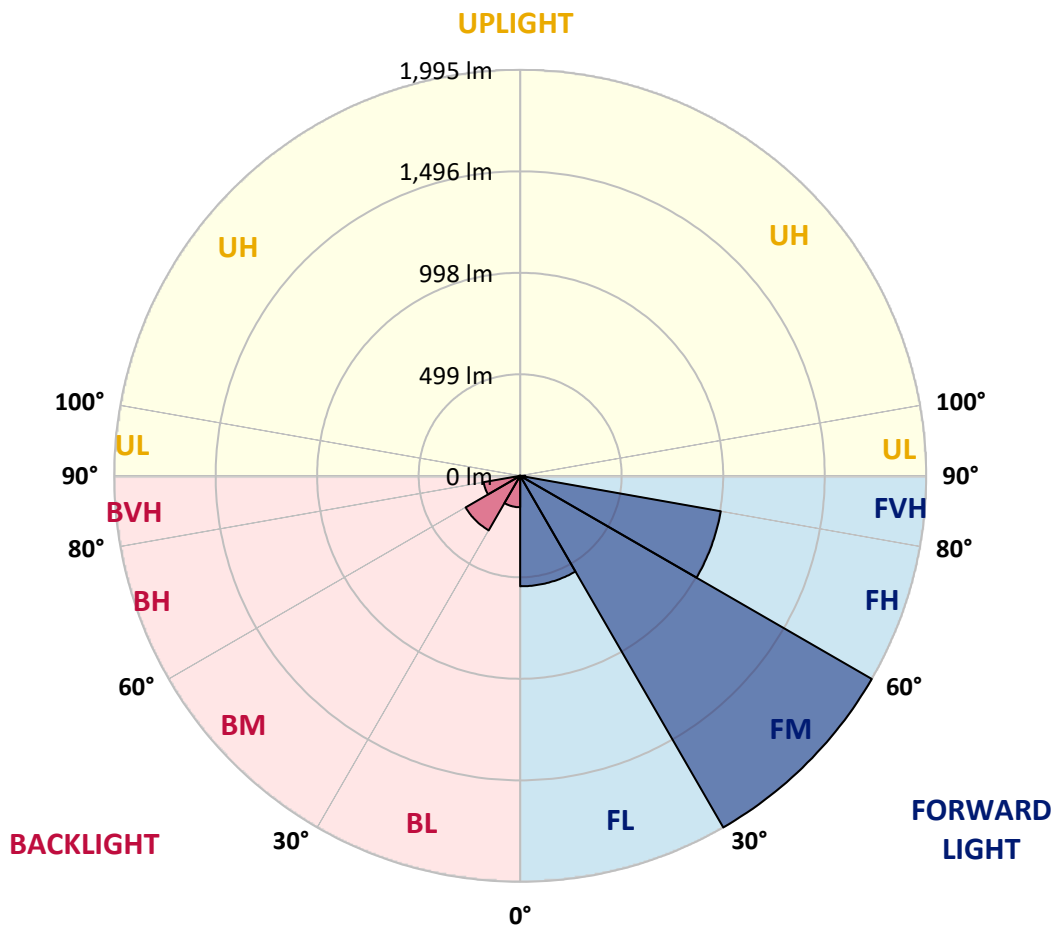
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	543.0	12.9			
FM	(30°-60°)	1995.3	47.3			
FH	(60°-80°)	1001.2	23.7			G1/1800
FVH	(80°-90°)	24.7	0.6			G1/100
BL	(0°-30°)	154.5	3.7	B1/500		
BM	(30°-60°)	309.6	7.3	B1/1000		
BH	(60°-80°)	182.5	4.3	B1/500		G1/500
BVH	(80°-90°)	7.2	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°	798.7	798.7	798.7	798.7	798.7	798.7	798.7	798.7	798.7	798.7	798.7
2.5°	909.0	919.1	913.6	917.2	898.9	886.9	873.1	846.5	831.8	829.9	812.5
5°	1042.2	1053.3	1044.1	1041.3	1009.2	981.6	950.3	903.5	872.2	866.7	828.1
7.5°	1175.5	1185.6	1174.6	1166.3	1123.1	1074.4	1028.5	959.5	910.8	901.6	841.0
10°	1269.3	1278.5	1270.2	1261.9	1216.9	1167.2	1102.0	1011.9	945.7	931.0	849.2
12.5°	1340.0	1345.5	1341.9	1334.5	1292.2	1238.9	1176.4	1070.7	985.3	966.9	862.1
15°	1397.9	1407.1	1402.5	1397.0	1356.6	1303.3	1243.5	1132.3	1031.2	1008.2	881.4
17.5°	1436.5	1443.0	1443.9	1443.9	1408.0	1355.7	1297.8	1188.4	1077.2	1047.8	899.8
20°	1454.0	1461.3	1465.9	1473.3	1443.9	1398.9	1340.0	1236.2	1120.4	1087.3	917.2
22.5°	1462.3	1468.7	1480.7	1497.2	1473.3	1435.6	1381.4	1280.3	1163.6	1128.6	937.5
25°	1468.7	1477.0	1494.4	1525.7	1509.1	1477.0	1430.1	1330.8	1215.0	1179.2	966.9
27.5°	1486.2	1496.3	1512.8	1550.5	1530.3	1514.7	1481.6	1385.1	1269.3	1232.5	1002.7
30°	1546.8	1555.1	1554.2	1578.1	1553.3	1548.7	1525.7	1437.5	1321.6	1284.9	1045.0
32.5°	1657.1	1665.4	1645.2	1636.0	1581.7	1582.7	1573.5	1493.5	1384.1	1346.5	1093.7
35°	1775.7	1784.9	1758.2	1742.6	1651.6	1624.9	1629.5	1563.4	1454.0	1416.3	1154.4
37.5°	1881.4	1892.4	1869.4	1846.4	1754.5	1693.0	1692.0	1641.5	1534.0	1495.4	1221.5
40°	1939.3	1952.1	1965.9	1953.1	1856.6	1788.5	1759.1	1721.5	1613.0	1573.5	1294.1
42.5°	1966.8	2002.7	2027.5	2019.2	1940.2	1871.3	1836.3	1805.1	1709.5	1670.9	1380.5
45°	1889.6	1890.6	1943.0	1988.0	1973.3	1927.3	1920.9	1898.8	1819.8	1783.0	1477.9
47.5°	1793.1	1785.8	1822.6	1902.5	1943.9	1955.8	1993.5	2002.7	1945.7	1908.9	1577.2
50°	1561.5	1566.1	1685.6	1800.5	1881.4	1958.6	2045.0	2109.3	2075.3	2040.4	1681.9
52.5°	1270.2	1281.2	1418.2	1670.9	1798.7	1931.0	2075.3	2215.9	2207.6	2174.6	1786.7
55°	1018.3	1035.8	1181.0	1454.9	1693.0	1869.4	2088.2	2313.3	2344.6	2314.3	1889.6
57.5°	778.5	796.8	919.1	1200.3	1557.9	1769.2	2079.0	2398.8	2472.3	2453.0	1984.3
60°	586.4	604.8	682.9	973.3	1388.7	1657.1	2033.0	2454.9	2587.2	2567.0	2053.2
62.5°	420.0	434.7	492.6	757.3	1182.9	1523.8	1920.0	2455.8	2652.5	2635.9	2086.3
65°	302.4	302.4	349.3	540.4	989.9	1363.9	1749.0	2342.8	2638.7	2634.1	2063.4
67.5°	217.8	219.7	257.3	377.7	789.5	1170.0	1527.5	2141.5	2532.1	2555.1	1980.6
70°	154.4	159.0	176.5	263.8	596.5	923.7	1290.4	1877.7	2340.0	2380.4	1820.7
72.5°	119.5	122.2	134.2	183.8	435.6	686.6	1028.5	1583.6	2083.6	2129.5	1602.9
75°	91.9	94.7	103.9	135.1	312.5	481.6	730.7	1228.8	1680.1	1761.9	1287.6
77.5°	67.1	70.8	77.2	98.3	182.0	306.1	443.0	691.2	927.4	966.0	674.6
80°	31.2	35.8	45.0	63.4	98.3	144.3	157.2	266.5	445.8	466.0	365.8
82.5°	17.5	22.1	25.7	38.6	49.6	51.5	53.3	67.1	168.2	185.7	153.5
85°	8.3	11.0	11.9	16.5	16.5	14.7	17.5	12.9	27.6	33.1	32.2
87.5°	0.0	0.9	1.8	4.6	3.7	2.8	2.8	2.8	2.8	3.7	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°	798.7	798.7	798.7	798.7	798.7	798.7	798.7	798.7	798.7	798.7	798.7
2.5°	804.2	792.3	764.7	740.8	725.2	711.4	693.0	684.7	670.0	672.8	664.5
5°	808.8	786.7	738.0	693.0	659.9	630.5	598.3	579.9	559.7	557.9	551.5
7.5°	811.6	777.5	707.7	644.3	593.7	548.7	505.5	481.6	456.8	451.3	445.8
10°	808.8	763.8	676.4	593.7	526.6	470.6	421.9	391.5	365.8	359.4	353.8
12.5°	811.6	756.4	647.0	546.9	466.9	403.5	348.3	317.1	293.2	286.8	283.1
15°	818.0	751.8	622.2	504.6	413.6	342.8	288.6	261.9	242.6	236.2	234.4
17.5°	823.5	747.2	595.6	463.2	360.3	289.5	242.6	220.6	204.0	197.6	195.8
20°	830.9	740.8	568.9	423.7	313.4	247.2	205.9	186.6	173.7	169.1	168.2
22.5°	837.3	736.2	544.1	384.2	270.2	213.2	178.3	162.7	153.5	148.9	148.9
25°	853.8	738.0	523.0	347.4	238.0	186.6	157.2	145.2	137.9	135.1	135.1
27.5°	873.1	745.4	506.4	316.2	210.5	166.4	142.5	132.3	128.7	125.0	125.9
30°	900.7	760.1	495.4	290.4	190.3	150.7	130.5	123.2	119.5	118.6	118.6
32.5°	935.6	784.0	494.5	273.9	175.5	138.8	122.2	115.8	114.0	113.0	113.0
35°	977.0	805.1	489.0	266.5	166.4	130.5	115.8	111.2	110.3	110.3	110.3
37.5°	1026.6	840.0	485.3	256.4	161.8	125.9	111.2	107.5	107.5	107.5	107.5
40°	1078.1	868.5	479.8	247.2	159.9	123.2	108.5	103.9	103.9	103.9	103.9
42.5°	1139.7	909.9	477.9	242.6	157.2	121.3	104.8	99.3	100.2	100.2	101.1
45°	1214.1	956.8	477.0	238.0	156.2	119.5	101.1	94.7	95.6	94.7	94.7
47.5°	1289.5	1011.0	479.8	235.3	155.3	117.6	98.3	90.1	90.1	89.2	89.2
50°	1368.5	1060.6	481.6	232.5	153.5	114.0	93.7	86.4	84.6	82.7	83.6
52.5°	1443.0	1106.6	482.5	227.9	148.0	108.5	90.1	81.8	79.0	76.3	77.2
55°	1517.4	1150.7	484.4	222.4	140.6	102.9	85.5	77.2	73.5	69.9	69.9
57.5°	1584.5	1189.3	479.8	208.6	132.3	97.4	80.9	71.7	66.2	62.5	62.5
60°	1630.5	1216.9	466.0	188.4	121.3	91.0	76.3	66.2	59.7	57.0	57.0
62.5°	1652.5	1221.5	441.2	155.3	107.5	84.6	70.8	60.7	55.1	53.3	53.3
65°	1631.4	1201.2	402.6	116.7	92.8	77.2	65.3	56.1	50.5	46.0	46.0
67.5°	1557.9	1144.3	349.3	88.2	79.0	69.9	59.7	51.5	45.0	41.4	41.4
70°	1409.9	1025.7	270.2	70.8	67.1	60.7	54.2	46.0	40.4	35.8	35.8
72.5°	1216.0	869.5	190.3	57.0	57.0	51.5	46.0	40.4	34.9	31.2	31.2
75°	932.9	643.4	127.8	46.0	46.9	43.2	37.7	33.1	29.4	26.7	26.7
77.5°	509.2	318.0	78.1	34.0	34.9	33.1	29.4	26.7	24.8	22.1	22.1
80°	247.2	139.7	45.0	23.9	24.8	23.9	22.1	19.3	19.3	17.5	17.5
82.5°	103.9	52.4	23.9	16.5	16.5	14.7	13.8	13.8	13.8	12.9	12.9
85°	25.7	10.1	10.1	9.2	9.2	9.2	8.3	8.3	8.3	6.4	7.4
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	2.8	0.9	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)