

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: P1211581

Luminaire Tested: **ARCH4-50-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-50-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9052 lumens
Efficiency: N/A
Efficacy: 170.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

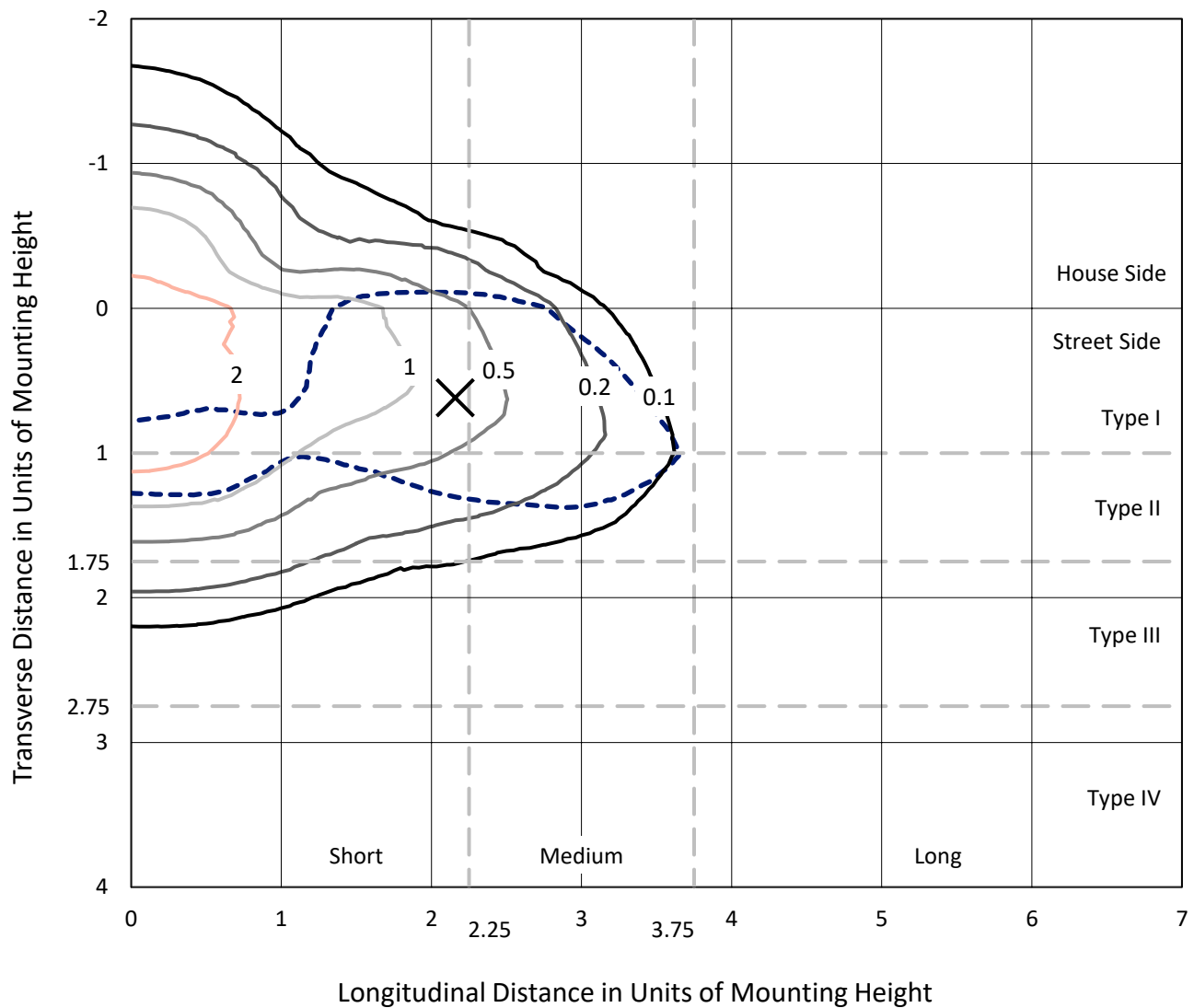
Input Watts (W): 53.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1211581
 CATALOG NUMBER: ARCH4-50-730-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

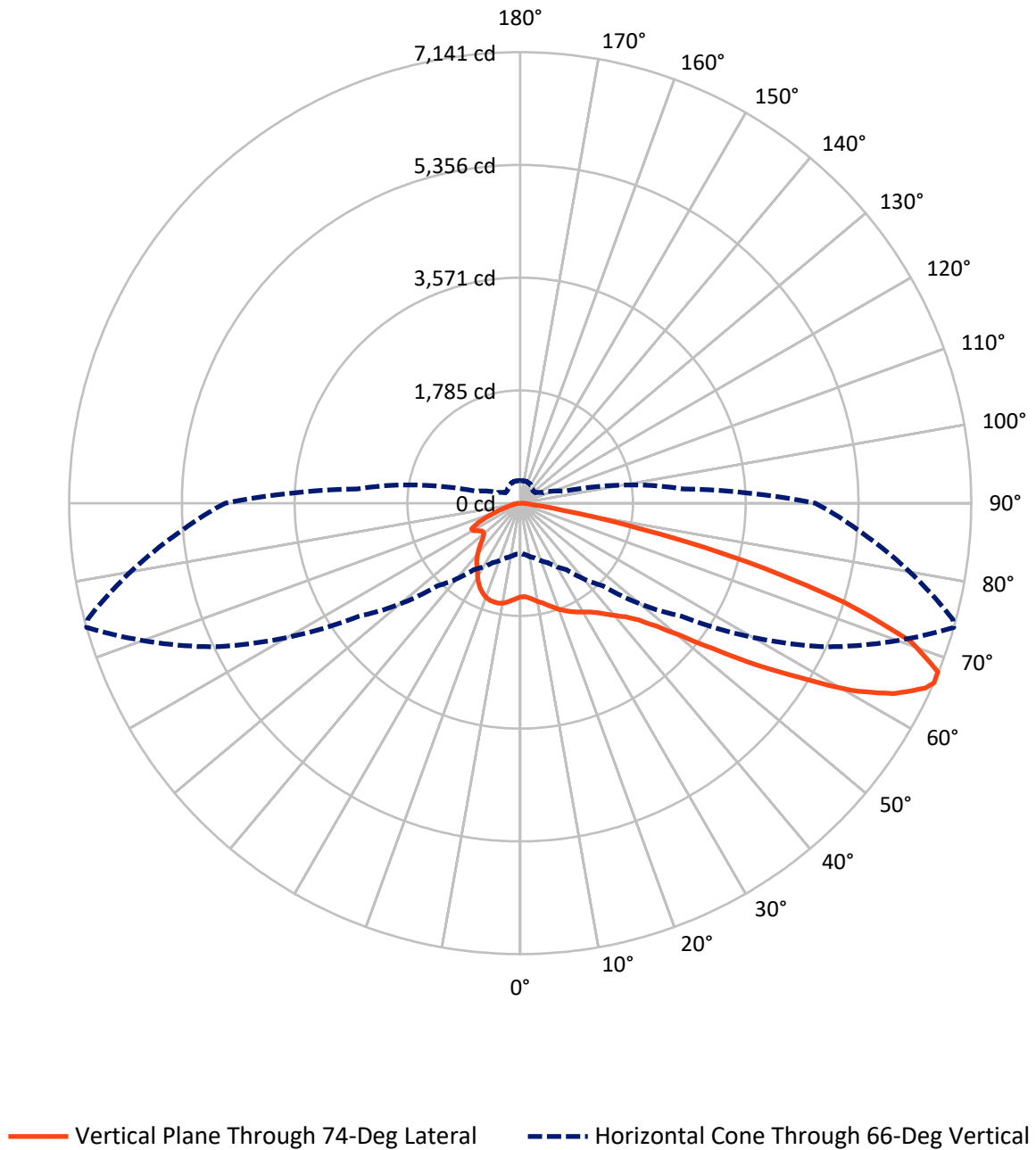
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P1211581
CATALOG NUMBER: ARCH4-50-730-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1211581

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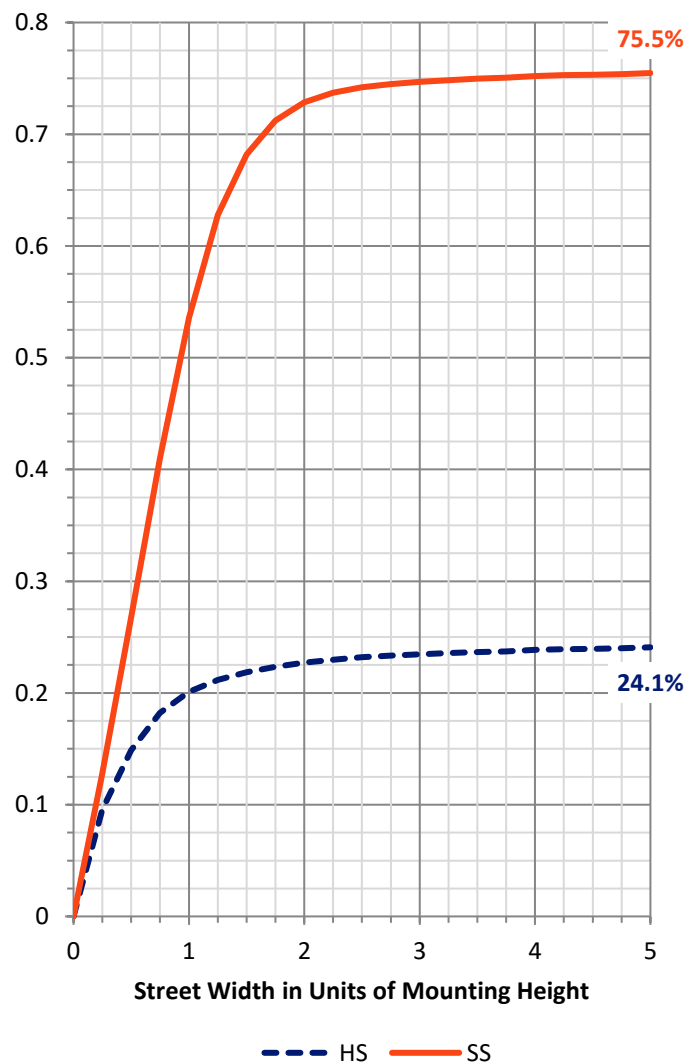
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2204.4	0.0	2204.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	6847.6	0.0	6847.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	9052.0	0.0	9052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	1.6
10°-20°	435.3	4.8
20°-30°	816.9	9.0
30°-40°	1256.5	13.9
40°-50°	1690.1	18.7
50°-60°	1998.8	22.1
60°-70°	1849.0	20.4
70°-80°	777.8	8.6
80°-90°	86.1	1.0
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°	9052.0	100.0
0°-180°	9052.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211581

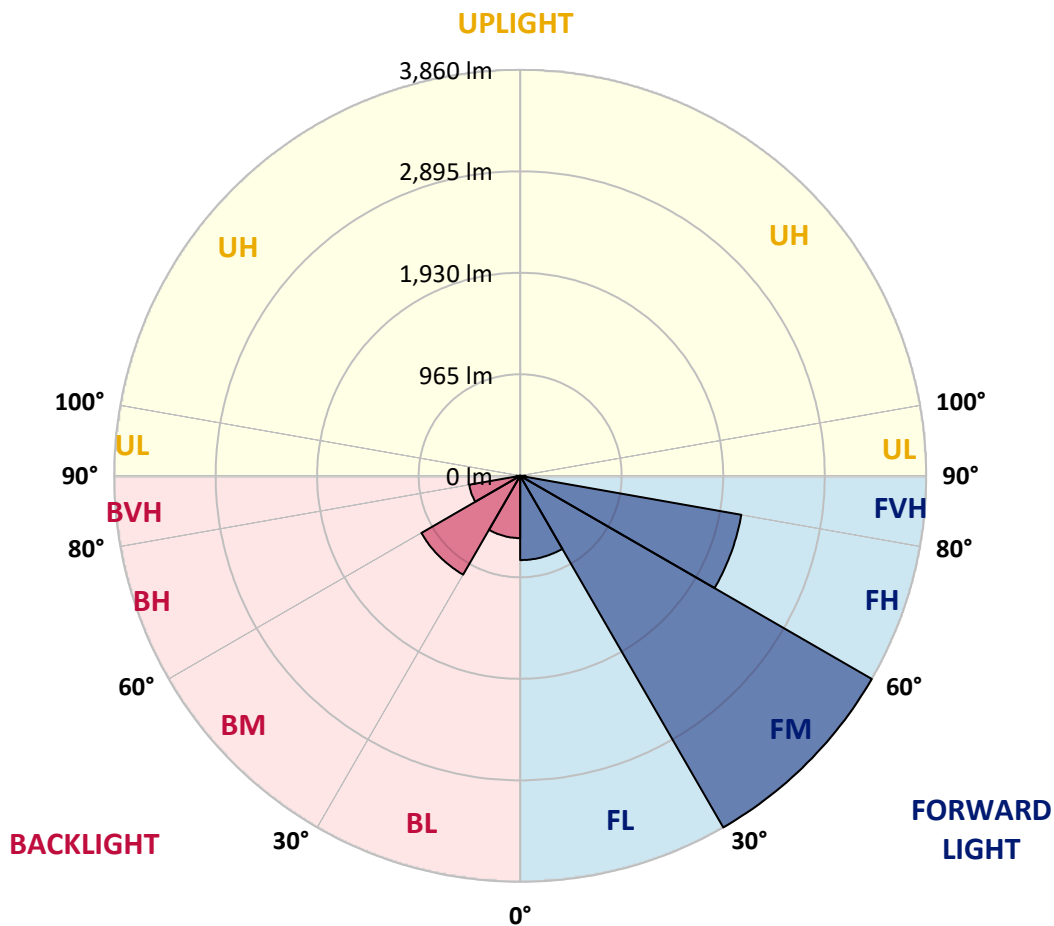
CATALOG NUMBER: ARCH4-50-730-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	801.2	8.9			
FM	(30°-60°)	3860.2	42.6			
FH	(60°-80°)	2134.7	23.6			G2/5000
FVH	(80°-90°)	51.5	0.6			G1/100
BL	(0°-30°)	592.5	6.5	B2/1000		
BM	(30°-60°)	1085.2	12.0	B2/2500		
BH	(60°-80°)	492.1	5.4	B1/500		G1/500
BVH	(80°-90°)	34.6	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 II Short



REPORT NUMBER: P1211581

CATALOG NUMBER: ARCH4-50-730-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9
2.5°	1479.3	1476.9	1481.6	1488.6	1492.1	1486.3	1483.9	1482.8	1482.8	1479.3	1485.1
5°	1409.4	1408.2	1418.7	1431.5	1456.0	1473.4	1496.7	1510.7	1506.1	1499.1	1503.7
7.5°	1318.5	1316.2	1329.0	1353.5	1387.2	1425.7	1482.8	1527.0	1544.5	1542.2	1541.0
10°	1353.5	1351.1	1350.0	1343.0	1354.6	1391.9	1451.3	1529.3	1588.8	1589.9	1591.1
12.5°	1474.6	1480.4	1474.6	1452.5	1426.8	1412.9	1447.8	1535.2	1626.0	1633.0	1662.1
15°	1640.0	1634.2	1622.5	1596.9	1557.3	1515.4	1489.7	1562.0	1679.6	1685.4	1749.5
17.5°	1785.6	1790.3	1783.3	1758.8	1712.2	1657.5	1579.4	1608.6	1736.7	1753.0	1842.7
20°	1944.0	1962.6	1953.3	1923.0	1884.6	1803.1	1705.2	1676.1	1799.6	1811.2	1939.4
22.5°	2126.9	2146.7	2129.2	2100.1	2068.6	1968.5	1842.7	1758.8	1852.0	1876.5	2032.5
25°	2345.9	2364.5	2348.2	2302.8	2263.2	2140.9	1990.6	1852.0	1903.2	1930.0	2108.2
27.5°	2519.4	2533.4	2548.5	2521.7	2461.2	2334.2	2144.4	1948.7	1954.5	1982.4	2178.1
30°	2674.3	2709.3	2722.1	2725.6	2674.3	2532.2	2301.6	2048.8	1998.8	2027.9	2248.0
32.5°	2886.3	2938.7	2917.8	2938.7	2908.4	2718.6	2464.7	2152.5	2055.8	2082.6	2314.4
35°	3196.1	3238.1	3183.3	3167.0	3118.1	2907.3	2621.9	2259.7	2131.5	2160.7	2377.3
37.5°	3529.3	3577.0	3497.8	3432.6	3339.4	3093.6	2757.0	2400.6	2236.4	2259.7	2435.5
40°	3820.5	3860.1	3791.3	3705.2	3549.1	3257.9	2873.5	2499.6	2341.2	2370.3	2503.1
42.5°	4089.5	4115.2	4038.3	3955.6	3747.1	3405.8	2999.3	2604.4	2463.5	2491.5	2557.8
45°	4362.1	4381.9	4274.7	4157.1	3912.5	3540.9	3137.9	2751.2	2642.9	2680.1	2646.4
47.5°	4411.0	4416.8	4398.2	4319.0	4042.9	3670.2	3309.1	2948.0	2916.6	2957.4	2799.0
50°	4072.1	4124.5	4239.8	4317.8	4095.4	3778.5	3480.3	3229.9	3294.0	3346.4	3115.8
52.5°	3414.0	3464.0	3730.8	4026.6	3969.6	3803.0	3664.4	3587.5	3826.3	3889.2	3546.7
55°	2719.8	2764.0	3045.9	3472.2	3563.0	3691.2	3861.2	4044.1	4505.4	4547.3	4019.6
57.5°	2239.9	2264.3	2465.8	2875.8	3021.4	3333.6	3967.2	4586.9	5196.1	5260.1	4430.8
60°	1836.9	1863.6	2013.9	2351.7	2545.0	2822.3	3883.4	5122.7	6020.7	6020.7	4958.4
62.5°	1382.6	1405.9	1545.7	1810.1	2135.0	2389.0	3615.5	5477.9	6642.7	6614.8	5340.5
65°	949.3	967.9	1069.3	1245.1	1537.5	2036.0	3249.7	5482.6	7055.0	7017.8	5503.6
66°	796.7	813.0	899.2	1041.3	1287.1	1847.3	3120.4	5383.6	7141.2	7088.8	5434.8
67.5°	629.0	640.6	697.7	781.6	943.5	1495.6	2916.6	5102.9	7133.1	7101.6	5260.1
70°	449.6	457.8	499.7	517.2	557.9	865.4	2316.7	4469.2	6561.2	6570.5	4572.9
72.5°	348.3	361.1	386.7	390.2	380.9	460.1	1405.9	3728.4	5367.3	5363.8	3394.2
75°	280.7	287.7	300.5	307.5	305.2	297.0	595.2	2781.5	3694.7	3737.8	1900.9
77.5°	221.3	220.1	231.8	241.1	248.1	233.0	272.6	1630.7	1937.0	1882.3	714.0
80°	163.1	163.1	179.4	182.9	193.4	195.7	181.7	629.0	665.1	604.5	185.2
82.5°	107.2	107.2	124.6	127.0	137.4	152.6	131.6	188.7	184.0	174.7	83.9
85°	58.2	55.9	61.7	69.9	75.7	89.7	79.2	94.3	96.7	95.5	55.9
87.5°	11.6	10.5	16.3	18.6	21.0	28.0	25.6	38.4	53.6	52.4	24.5
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: P1211581

CATALOG NUMBER: ARCH4-50-730-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9
2.5°	1493.2	1492.1	1504.9	1520.0	1537.5	1548.0	1552.6	1560.8	1555.0	1557.3	1564.3
5°	1515.4	1518.9	1537.5	1557.3	1565.5	1559.6	1546.8	1542.2	1531.7	1529.3	1527.0
7.5°	1548.0	1553.8	1572.4	1577.1	1552.6	1511.9	1482.8	1466.5	1449.0	1444.3	1442.0
10°	1601.6	1605.1	1609.7	1562.0	1501.4	1446.7	1410.5	1395.4	1383.8	1374.4	1376.8
12.5°	1669.1	1666.8	1630.7	1531.7	1445.5	1389.6	1365.1	1355.8	1347.6	1341.8	1340.7
15°	1754.2	1737.8	1634.2	1489.7	1393.1	1346.5	1329.0	1325.5	1316.2	1316.2	1315.0
17.5°	1840.3	1798.4	1631.9	1445.5	1343.0	1317.4	1306.9	1304.5	1302.2	1301.1	1304.5
20°	1926.5	1852.0	1613.2	1390.7	1308.0	1292.9	1290.6	1291.7	1289.4	1292.9	1290.6
22.5°	2002.2	1886.9	1578.3	1332.5	1283.6	1282.4	1276.6	1278.9	1287.1	1288.2	1291.7
25°	2060.5	1899.7	1527.0	1278.9	1266.1	1263.8	1270.8	1280.1	1287.1	1288.2	1294.1
27.5°	2108.2	1892.8	1463.0	1237.0	1235.8	1248.6	1269.6	1273.1	1274.3	1274.3	1269.6
30°	2144.4	1877.6	1381.4	1190.4	1196.2	1227.7	1247.5	1247.5	1238.2	1235.8	1242.8
32.5°	2152.5	1857.8	1292.9	1142.6	1152.0	1189.2	1213.7	1205.5	1195.1	1195.1	1199.7
35°	2159.5	1831.0	1221.8	1077.4	1091.4	1135.7	1159.0	1142.6	1131.0	1127.5	1126.3
37.5°	2157.2	1820.5	1157.8	994.7	1013.4	1056.5	1071.6	1056.5	1039.0	1030.8	1041.3
40°	2159.5	1813.6	1077.4	903.9	922.5	948.1	967.9	956.3	940.0	919.0	929.5
42.5°	2173.5	1822.9	988.9	815.3	815.3	829.3	863.1	854.9	815.3	807.2	816.5
45°	2248.0	1873.0	900.4	726.8	714.0	723.3	758.3	723.3	698.9	698.9	707.0
47.5°	2428.6	1966.1	822.3	648.8	618.5	637.1	646.5	613.8	595.2	590.5	598.7
50°	2796.6	2152.5	775.7	584.7	547.4	561.4	555.6	554.4	535.8	538.1	542.8
52.5°	3355.7	2515.9	761.8	553.3	506.7	510.2	504.3	506.7	503.2	514.8	518.3
55°	3964.9	2899.1	779.2	557.9	478.7	454.3	456.6	468.2	482.2	500.9	504.3
57.5°	4420.3	3091.3	824.7	589.4	443.8	406.5	412.3	434.5	461.3	476.4	484.5
60°	4759.3	3068.0	891.1	597.5	401.8	363.4	373.9	406.5	429.8	442.6	450.8
62.5°	4869.9	2922.4	907.4	538.1	347.1	322.6	348.3	382.0	392.5	406.5	412.3
65°	4779.1	2716.3	788.6	436.8	305.2	292.4	329.6	355.3	369.2	376.2	377.4
66°	4671.9	2592.8	724.5	397.2	290.0	283.0	322.6	343.6	357.6	356.4	357.6
67.5°	4436.6	2334.2	620.8	341.3	267.9	269.1	311.0	325.0	329.6	326.1	326.1
70°	3636.4	1643.5	444.9	258.6	235.3	251.6	279.5	283.0	293.5	288.9	288.9
72.5°	2242.2	807.2	298.2	198.0	209.7	235.3	234.1	245.8	270.2	277.2	281.9
75°	1101.9	327.3	196.8	167.7	187.5	196.8	194.5	223.6	258.6	288.9	299.3
77.5°	418.2	163.1	137.4	146.8	151.4	147.9	154.9	202.7	258.6	313.3	323.8
80°	129.3	113.0	108.3	121.1	114.1	108.3	116.5	167.7	219.0	237.6	237.6
82.5°	78.0	88.5	83.9	82.7	76.9	78.0	83.9	120.0	168.9	177.0	177.0
85°	54.7	58.2	47.8	45.4	44.3	43.1	43.1	69.9	100.2	99.0	102.5
87.5°	21.0	23.3	17.5	17.5	16.3	11.6	9.3	11.6	11.6	8.2	5.8
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)