

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: P1210021

Luminaire Tested: **ARCH1-50-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210021
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: ARCH1-50-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6993 lumens
Efficiency: N/A
Efficacy: 131.9 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): 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

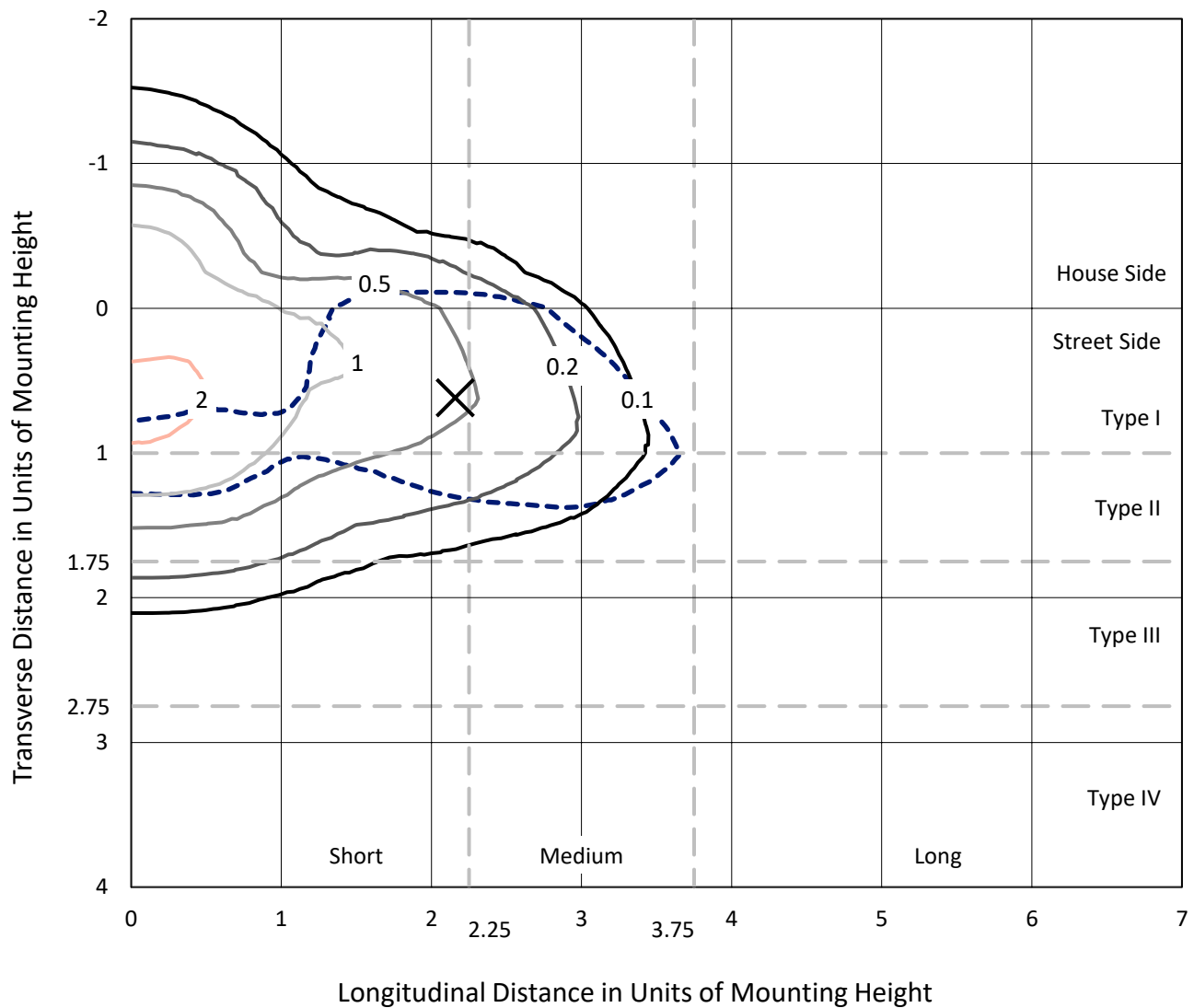


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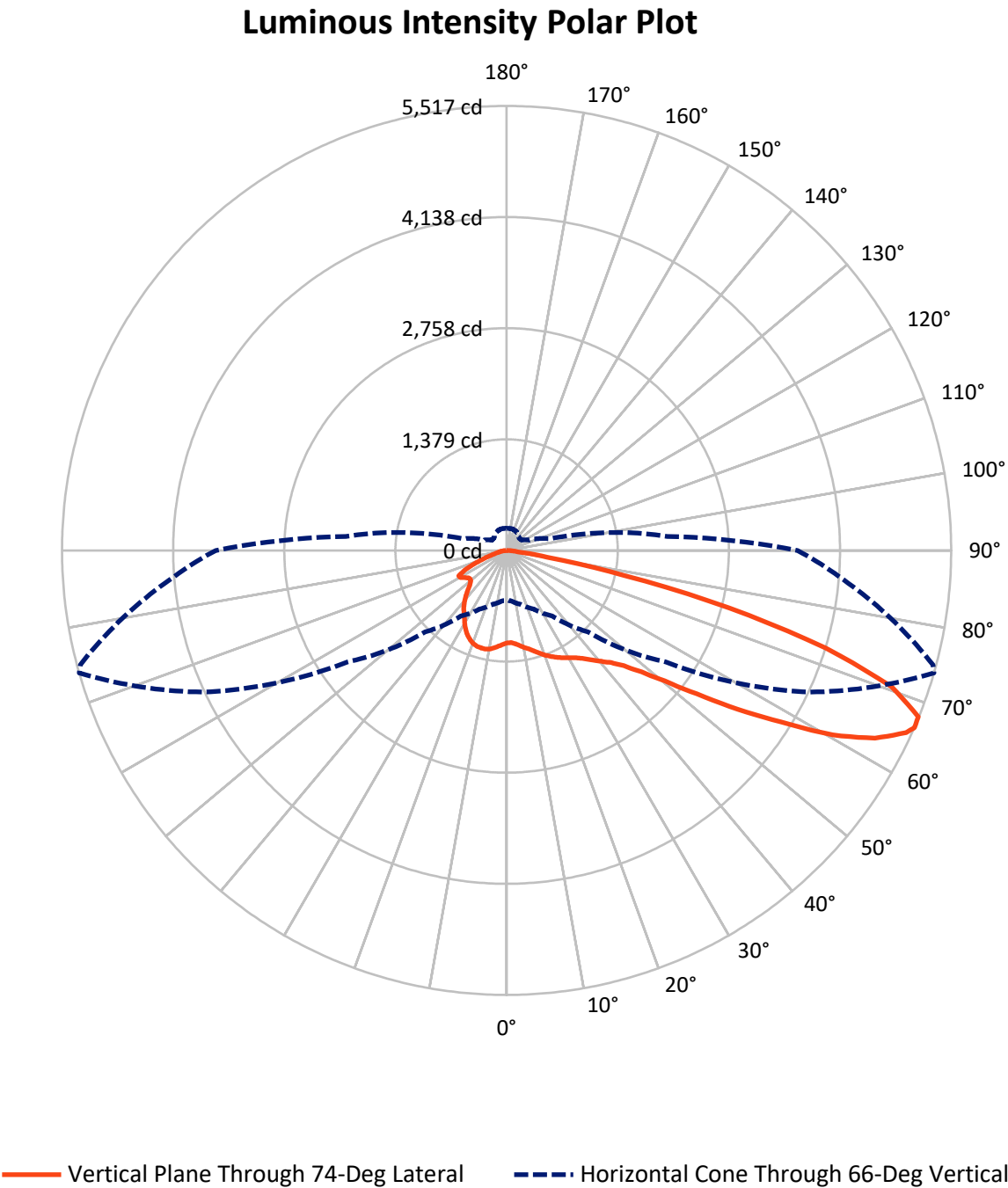
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type II - Short - N/A

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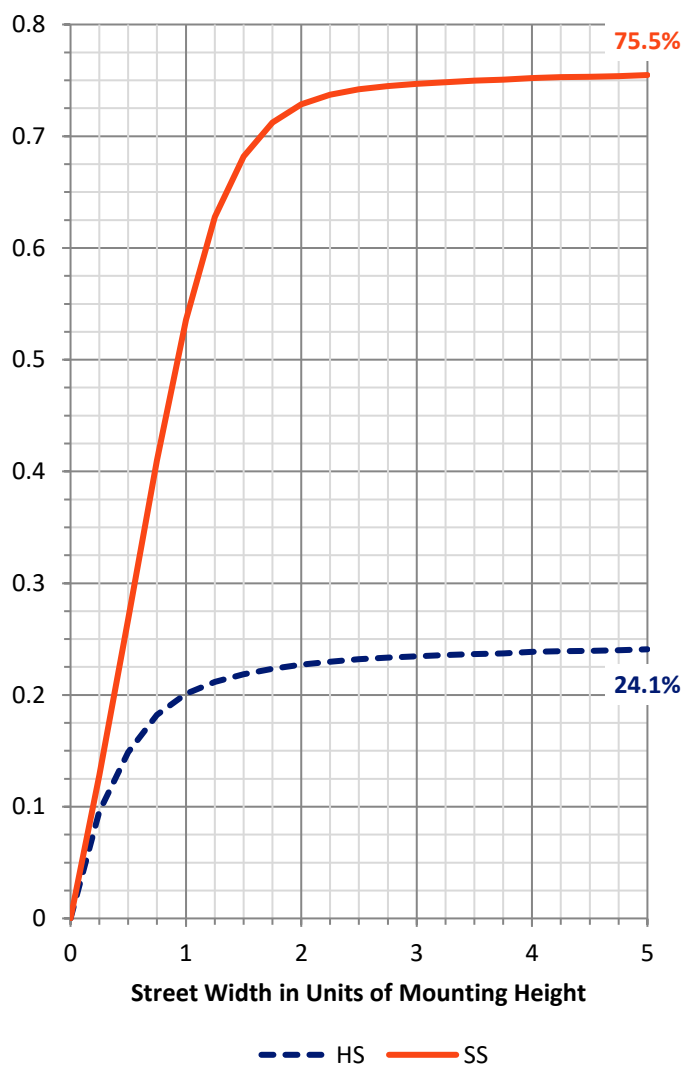
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1703.0	0.0	1703.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	5290.0	0.0	5290.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	6993.0	0.0	6993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.4	1.6
10°-20°	336.3	4.8
20°-30°	631.0	9.0
30°-40°	970.7	13.9
40°-50°	1305.7	18.7
50°-60°	1544.1	22.1
60°-70°	1428.4	20.4
70°-80°	600.9	8.6
80°-90°	66.5	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°	6993.0	100.0
0°-180°	6993.0	100.0

Coefficient of Utilization



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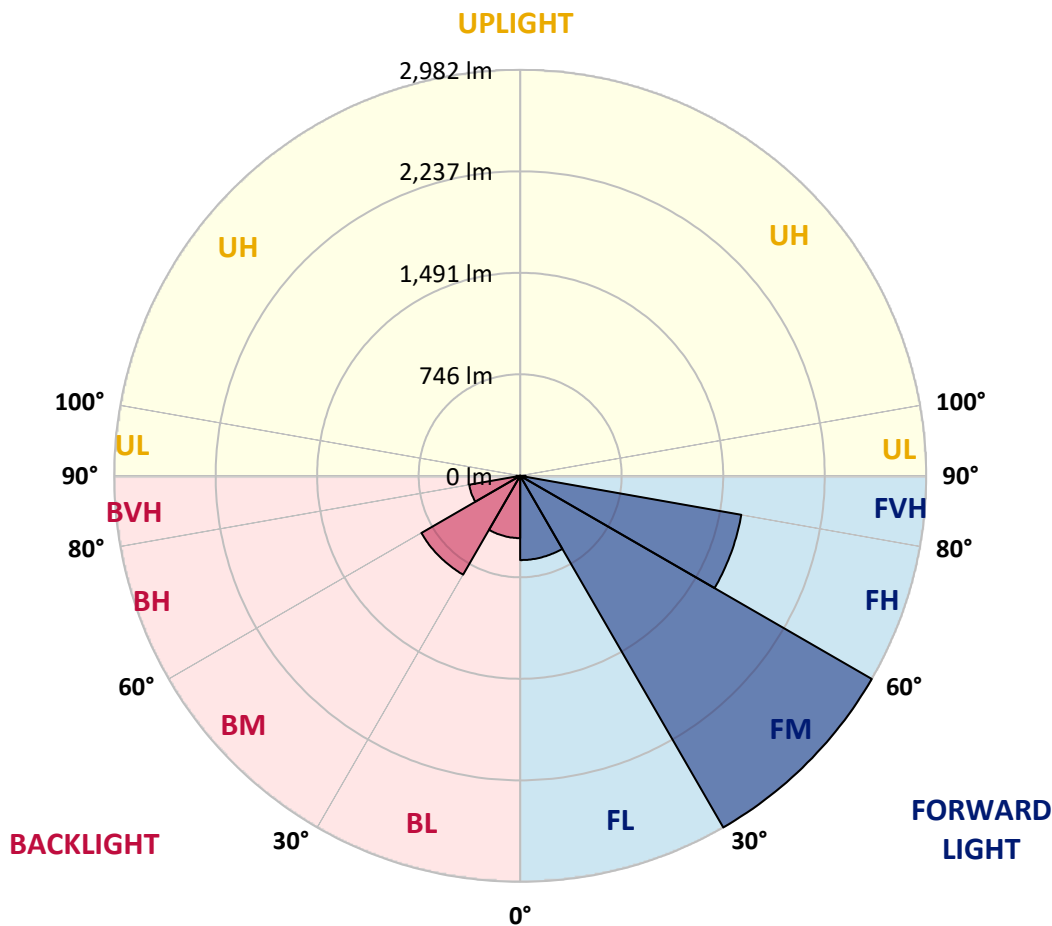
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	619.0	8.9			
FM	(30°-60°)	2982.1	42.6			
FH	(60°-80°)	1649.1	23.6			G1/1800
FVH	(80°-90°)	39.8	0.6			G1/100
BL	(0°-30°)	457.7	6.5	B1/500		
BM	(30°-60°)	838.4	12.0	B1/1000		
BH	(60°-80°)	380.2	5.4	B1/500		G1/500
BVH	(80°-90°)	26.7	0.4			G1/100
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°	74°	75°	85°
0°	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4
2.5°	1142.8	1141.0	1144.6	1150.0	1152.7	1148.2	1146.4	1145.5	1145.5	1142.8	1147.3
5°	1088.8	1087.9	1096.0	1105.9	1124.8	1138.3	1156.3	1167.1	1163.5	1158.1	1161.7
7.5°	1018.6	1016.8	1026.7	1045.6	1071.7	1101.4	1145.5	1179.7	1193.2	1191.4	1190.5
10°	1045.6	1043.8	1042.9	1037.5	1046.5	1075.3	1121.2	1181.5	1227.4	1228.3	1229.2
12.5°	1139.2	1143.7	1139.2	1122.1	1102.3	1091.5	1118.5	1186.0	1256.2	1261.6	1284.1
15°	1267.0	1262.5	1253.5	1233.7	1203.1	1170.7	1150.9	1206.7	1297.6	1302.1	1351.5
17.5°	1379.4	1383.0	1377.6	1358.7	1322.8	1280.5	1220.2	1242.7	1341.6	1354.2	1423.5
20°	1501.8	1516.2	1509.0	1485.6	1455.9	1392.9	1317.4	1294.9	1390.2	1399.2	1498.2
22.5°	1643.1	1658.4	1644.9	1622.4	1598.1	1520.7	1423.5	1358.7	1430.7	1449.6	1570.2
25°	1812.3	1826.7	1814.1	1779.0	1748.4	1653.9	1537.8	1430.7	1470.3	1491.0	1628.7
27.5°	1946.3	1957.1	1968.8	1948.1	1901.3	1803.3	1656.6	1505.4	1509.9	1531.5	1682.7
30°	2066.0	2093.0	2102.9	2105.6	2066.0	1956.2	1778.1	1582.8	1544.1	1566.6	1736.7
32.5°	2229.8	2270.3	2254.1	2270.3	2246.9	2100.2	1904.0	1662.9	1588.2	1608.9	1788.0
35°	2469.1	2501.5	2459.2	2446.6	2408.8	2246.0	2025.5	1745.7	1646.7	1669.2	1836.6
37.5°	2726.5	2763.4	2702.2	2651.8	2579.8	2390.0	2129.9	1854.6	1727.7	1745.7	1881.5
40°	2951.4	2982.0	2929.0	2862.4	2741.8	2516.8	2219.9	1931.0	1808.7	1831.2	1933.7
42.5°	3159.3	3179.1	3119.7	3055.8	2894.8	2631.1	2317.1	2012.0	1903.1	1924.7	1976.0
45°	3369.9	3385.2	3302.4	3211.5	3022.5	2735.5	2424.1	2125.4	2041.7	2070.5	2044.4
47.5°	3407.7	3412.2	3397.8	3336.6	3123.3	2835.4	2556.4	2277.5	2253.2	2284.7	2162.3
50°	3145.8	3186.3	3275.4	3335.7	3163.8	2919.1	2688.7	2495.2	2544.7	2585.2	2407.0
52.5°	2637.4	2676.1	2882.2	3110.7	3066.6	2937.9	2830.9	2771.5	2955.9	3004.5	2740.0
55°	2101.1	2135.3	2353.1	2682.4	2752.6	2851.6	2982.9	3124.2	3480.5	3512.9	3105.3
57.5°	1730.4	1749.3	1904.9	2221.7	2334.2	2575.3	3064.8	3543.5	4014.1	4063.6	3423.0
60°	1419.0	1439.7	1555.8	1816.8	1966.1	2180.3	3000.0	3957.5	4651.2	4651.2	3830.6
62.5°	1068.1	1086.1	1194.1	1398.3	1649.4	1845.6	2793.1	4231.9	5131.7	5110.1	4125.7
65°	733.4	747.8	826.0	961.9	1187.8	1572.9	2510.5	4235.5	5450.3	5421.5	4251.7
66°	615.5	628.1	694.7	804.4	994.3	1427.1	2410.6	4159.0	5516.9	5476.4	4198.6
67.5°	485.9	494.9	539.0	603.8	728.9	1155.4	2253.2	3942.2	5510.6	5486.3	4063.6
70°	347.3	353.6	386.0	399.5	431.0	668.6	1789.8	3452.7	5068.8	5075.9	3532.7
72.5°	269.0	278.9	298.7	301.4	294.2	355.4	1086.1	2880.4	4146.4	4143.7	2622.1
75°	216.9	222.3	232.2	237.6	235.8	229.5	459.8	2148.8	2854.3	2887.6	1468.5
77.5°	171.0	170.1	179.1	186.3	191.7	180.0	210.6	1259.8	1496.4	1454.1	551.6
80°	126.0	126.0	138.6	141.3	149.4	151.2	140.4	485.9	513.8	467.0	143.1
82.5°	82.8	82.8	96.3	98.1	106.2	117.9	101.7	145.8	142.2	135.0	64.8
85°	45.0	43.2	47.7	54.0	58.5	69.3	61.2	72.9	74.7	73.8	43.2
87.5°	9.0	8.1	12.6	14.4	16.2	21.6	19.8	29.7	41.4	40.5	18.9
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°	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4
2.5°	1153.6	1152.7	1162.6	1174.3	1187.8	1195.9	1199.5	1205.8	1201.3	1203.1	1208.5
5°	1170.7	1173.4	1187.8	1203.1	1209.4	1204.9	1195.0	1191.4	1183.3	1181.5	1179.7
7.5°	1195.9	1200.4	1214.8	1218.4	1199.5	1168.0	1145.5	1132.9	1119.4	1115.8	1114.0
10°	1237.3	1240.0	1243.6	1206.7	1159.9	1117.6	1089.7	1078.0	1069.0	1061.8	1063.6
12.5°	1289.5	1287.7	1259.8	1183.3	1116.7	1073.5	1054.6	1047.4	1041.1	1036.6	1035.7
15°	1355.1	1342.5	1262.5	1150.9	1076.2	1040.2	1026.7	1024.0	1016.8	1016.8	1015.9
17.5°	1421.7	1389.3	1260.7	1116.7	1037.5	1017.7	1009.6	1007.8	1006.0	1005.1	1007.8
20°	1488.3	1430.7	1246.3	1074.4	1010.5	998.8	997.0	997.9	996.1	998.8	997.0
22.5°	1546.8	1457.7	1219.3	1029.4	991.6	990.7	986.2	988.0	994.3	995.2	997.9
25°	1591.8	1467.6	1179.7	988.0	978.1	976.3	981.7	988.9	994.3	995.2	999.7
27.5°	1628.7	1462.2	1130.2	955.6	954.7	964.6	980.8	983.5	984.4	984.4	980.8
30°	1656.6	1450.5	1067.2	919.6	924.1	948.4	963.7	963.7	956.5	954.7	960.1
32.5°	1662.9	1435.2	998.8	882.7	889.9	918.7	937.6	931.3	923.2	923.2	926.8
35°	1668.3	1414.5	943.9	832.3	843.1	877.3	895.3	882.7	873.7	871.0	870.1
37.5°	1666.5	1406.4	894.4	768.5	782.9	816.1	827.8	816.1	802.6	796.4	804.4
40°	1668.3	1401.0	832.3	698.3	712.7	732.5	747.8	738.8	726.2	710.0	718.1
42.5°	1679.1	1408.2	764.0	629.9	629.9	640.7	666.8	660.5	629.9	623.6	630.8
45°	1736.7	1446.9	695.6	561.5	551.6	558.8	585.8	558.8	539.9	539.9	546.2
47.5°	1876.1	1518.9	635.3	501.2	477.8	492.2	499.4	474.2	459.8	456.2	462.5
50°	2160.5	1662.9	599.3	451.7	422.9	433.7	429.2	428.3	413.9	415.7	419.3
52.5°	2592.4	1943.6	588.5	427.4	391.4	394.1	389.6	391.4	388.7	397.7	400.4
55°	3063.0	2239.7	602.0	431.0	369.8	350.9	352.7	361.7	372.5	386.9	389.6
57.5°	3414.9	2388.2	637.1	455.3	342.8	314.0	318.5	335.6	356.3	368.0	374.3
60°	3676.7	2370.2	688.4	461.6	310.4	280.7	288.8	314.0	332.0	341.9	348.2
62.5°	3762.2	2257.7	701.0	415.7	268.1	249.3	269.0	295.1	303.2	314.0	318.5
65°	3692.0	2098.4	609.2	337.4	235.8	225.9	254.7	274.4	285.2	290.6	291.5
66°	3609.2	2003.0	559.7	306.8	224.1	218.7	249.3	265.5	276.2	275.3	276.2
67.5°	3427.5	1803.3	479.6	263.7	207.0	207.9	240.3	251.1	254.7	252.0	252.0
70°	2809.3	1269.7	343.7	199.8	181.8	194.4	216.0	218.7	226.8	223.2	223.2
72.5°	1732.2	623.6	230.4	153.0	162.0	181.8	180.9	189.9	208.8	214.2	217.8
75°	851.2	252.9	152.1	129.6	144.9	152.1	150.3	172.8	199.8	223.2	231.3
77.5°	323.0	126.0	106.2	113.4	117.0	114.3	119.7	156.6	199.8	242.1	250.2
80°	99.9	87.3	83.7	93.6	88.2	83.7	90.0	129.6	169.2	183.6	183.6
82.5°	60.3	68.4	64.8	63.9	59.4	60.3	64.8	92.7	130.5	136.8	136.8
85°	42.3	45.0	36.9	35.1	34.2	33.3	33.3	54.0	77.4	76.5	79.2
87.5°	16.2	18.0	13.5	13.5	12.6	9.0	7.2	9.0	9.0	6.3	4.5
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)