

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: P1210205

Luminaire Tested: **ARCH2-50-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210205
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: ARCH2-50-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7861 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 54
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

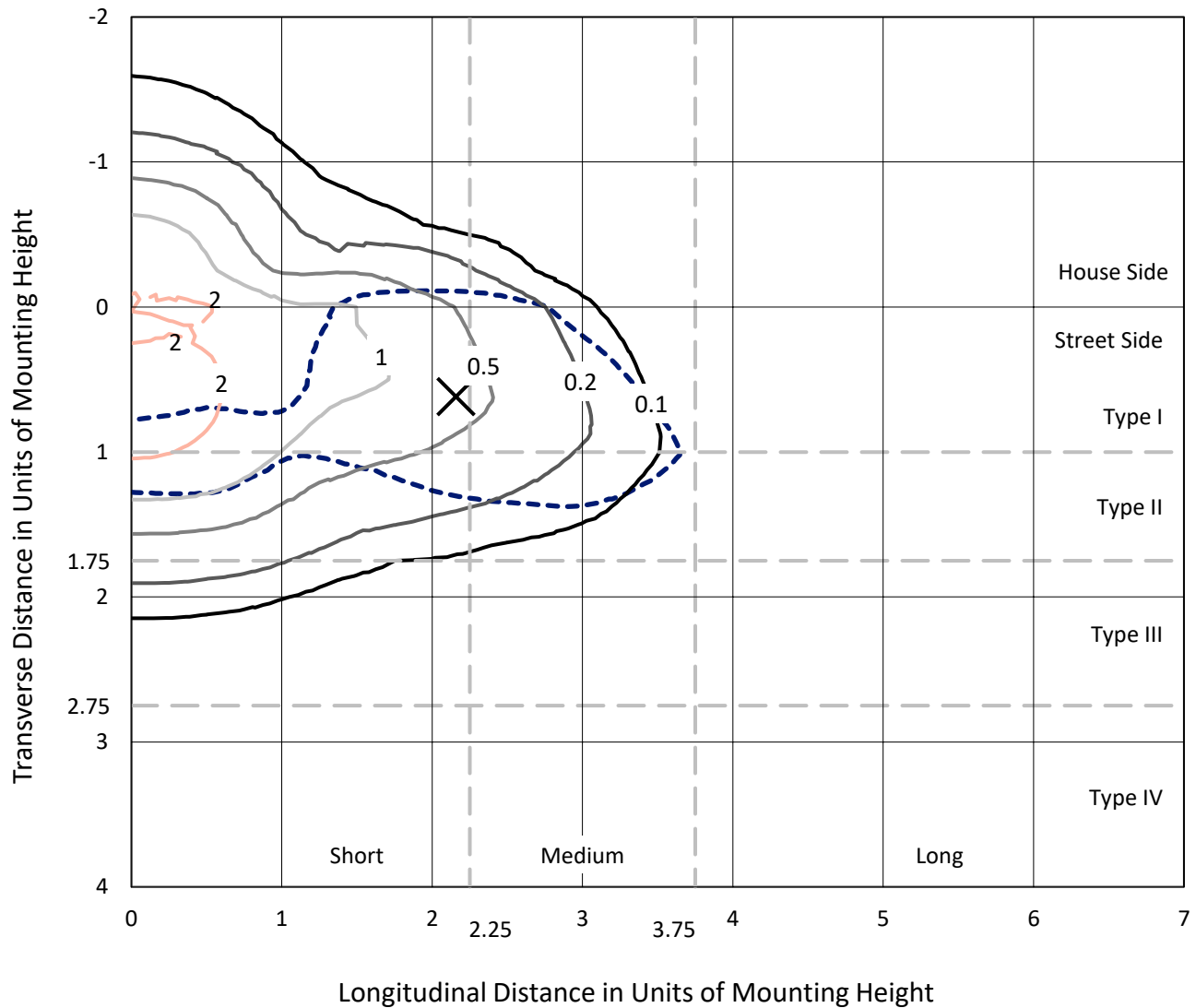


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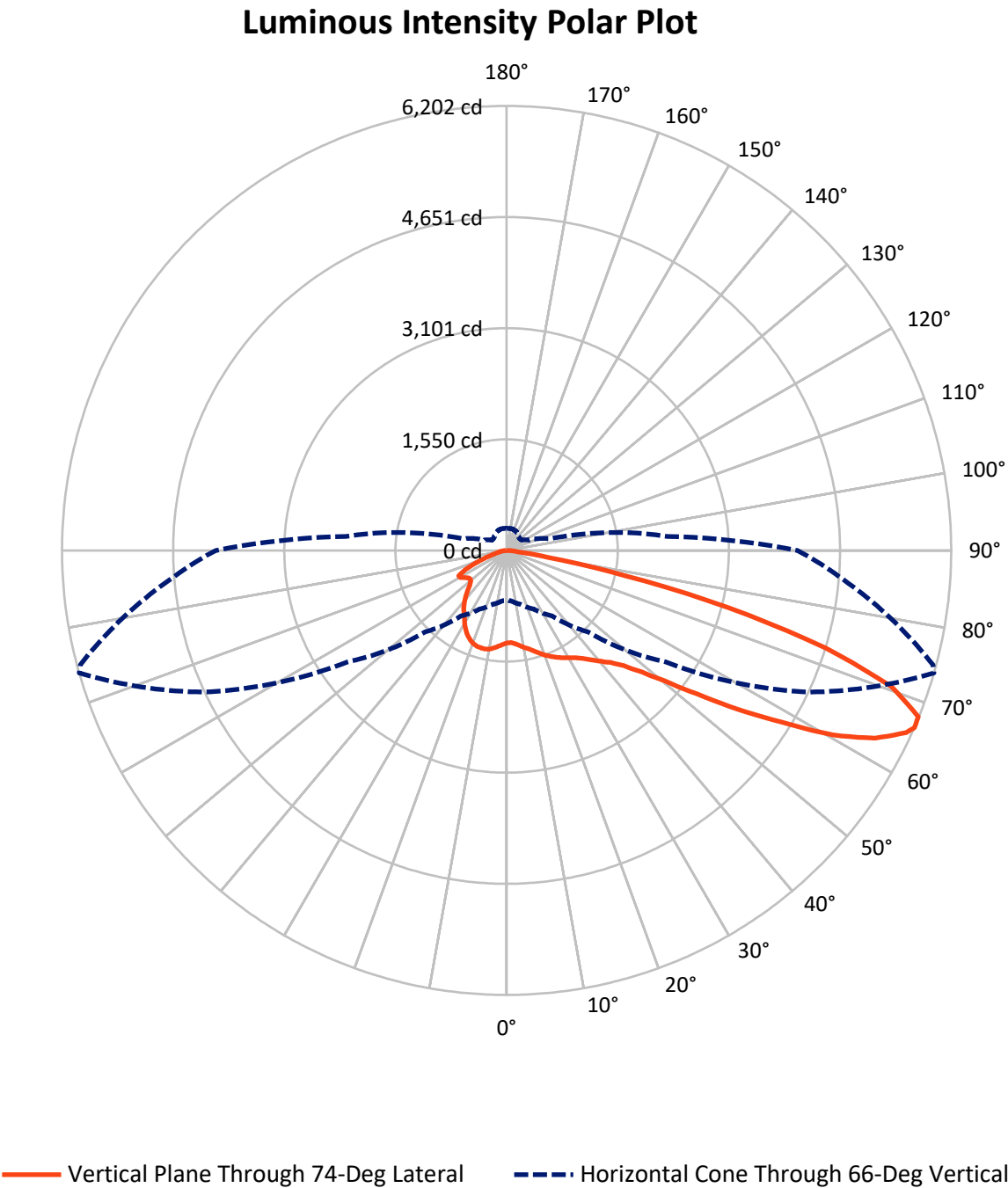
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type II - Short - N/A

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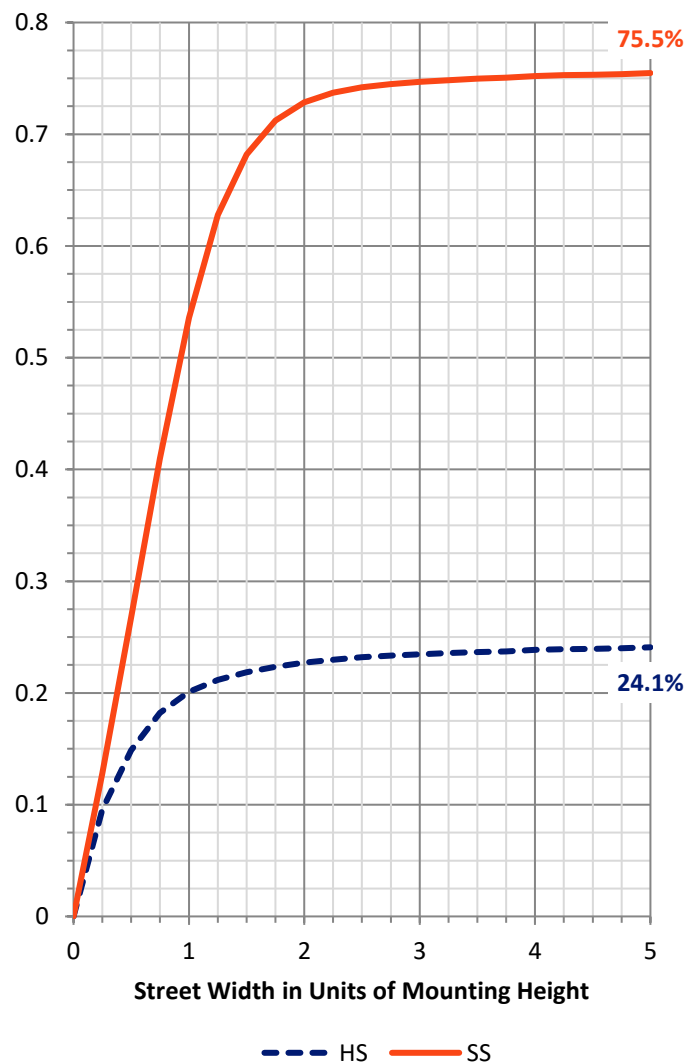
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1914.4	0.0	1914.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	5946.6	0.0	5946.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	7861.0	0.0	7861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	1.6
10°-20°	378.0	4.8
20°-30°	709.4	9.0
30°-40°	1091.2	13.9
40°-50°	1467.7	18.7
50°-60°	1735.8	22.1
60°-70°	1605.7	20.4
70°-80°	675.5	8.6
80°-90°	74.8	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°	7861.0	100.0
0°-180°	7861.0	100.0

Coefficient of Utilization



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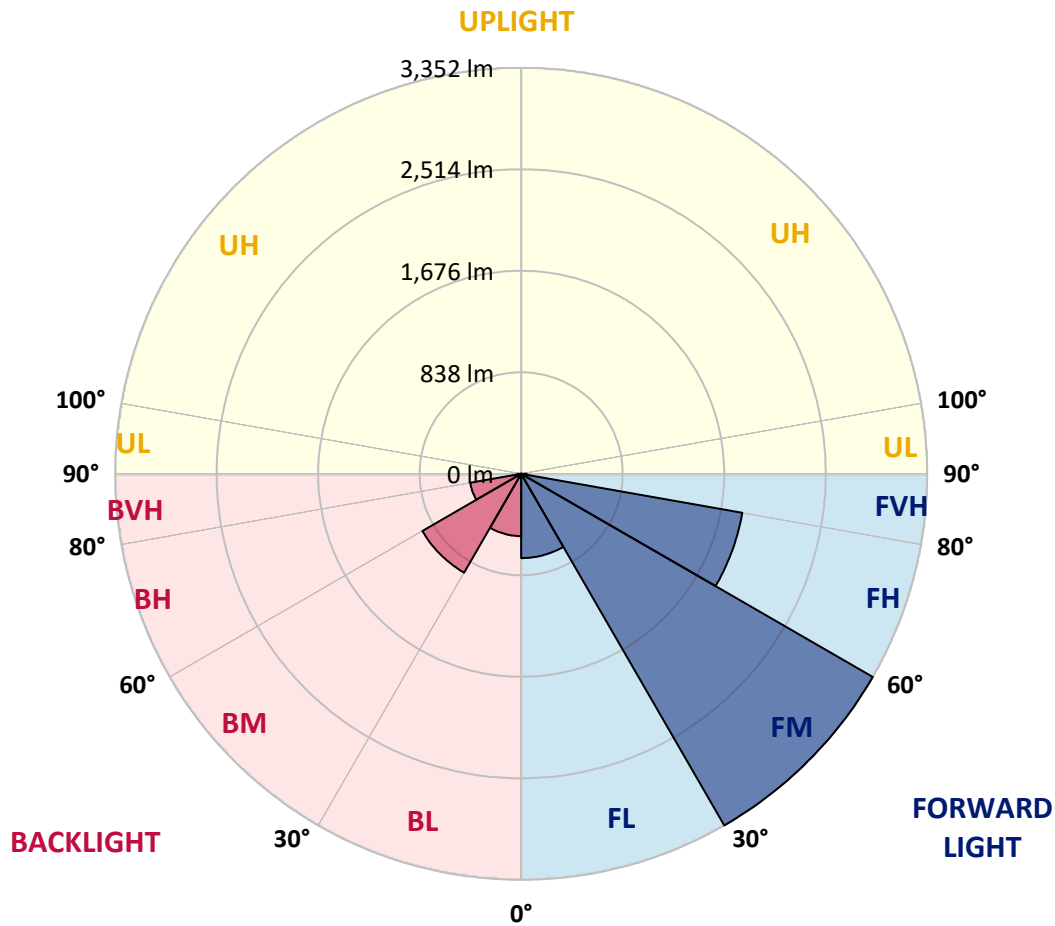
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	695.8	8.9			
FM	(30°-60°)	3352.3	42.6			
FH	(60°-80°)	1853.8	23.6			G2/5000
FVH	(80°-90°)	44.7	0.6			G1/100
BL	(0°-30°)	514.5	6.5	B2/1000		
BM	(30°-60°)	942.4	12.0	B1/1000		
BH	(60°-80°)	427.4	5.4	B1/500		G1/500
BVH	(80°-90°)	30.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7
2.5°	1284.6	1282.6	1286.7	1292.7	1295.8	1290.7	1288.7	1287.7	1287.7	1284.6	1289.7
5°	1223.9	1222.9	1232.0	1243.2	1264.4	1279.6	1299.8	1311.9	1307.9	1301.8	1305.9
7.5°	1145.0	1143.0	1154.1	1175.4	1204.7	1238.1	1287.7	1326.1	1341.3	1339.3	1338.2
10°	1175.4	1173.4	1172.4	1166.3	1176.4	1208.8	1260.4	1328.1	1379.7	1380.7	1381.7
12.5°	1280.6	1285.6	1280.6	1261.4	1239.1	1227.0	1257.3	1333.2	1412.1	1418.2	1443.4
15°	1424.2	1419.2	1409.1	1386.8	1352.4	1316.0	1293.7	1356.5	1458.6	1463.7	1519.3
17.5°	1550.7	1554.7	1548.6	1527.4	1486.9	1439.4	1371.6	1396.9	1508.2	1522.3	1600.2
20°	1688.2	1704.4	1696.3	1670.0	1636.6	1565.8	1480.9	1455.6	1562.8	1572.9	1684.2
22.5°	1847.0	1864.2	1849.1	1823.8	1796.5	1709.5	1600.2	1527.4	1608.3	1629.6	1765.1
25°	2037.2	2053.4	2039.2	1999.8	1965.4	1859.2	1728.7	1608.3	1652.8	1676.1	1830.9
27.5°	2187.9	2200.1	2213.2	2189.9	2137.3	2027.1	1862.2	1692.3	1697.3	1721.6	1891.5
30°	2322.5	2352.8	2363.9	2367.0	2322.5	2199.0	1998.8	1779.3	1735.8	1761.1	1952.2
32.5°	2506.6	2552.1	2533.9	2552.1	2525.8	2360.9	2140.4	1869.3	1785.3	1808.6	2009.9
35°	2775.6	2812.0	2764.5	2750.3	2707.8	2524.8	2276.9	1962.4	1851.1	1876.4	2064.5
37.5°	3064.9	3106.4	3037.6	2981.0	2900.0	2686.6	2394.3	2084.7	1942.1	1962.4	2115.1
40°	3317.8	3352.2	3292.5	3217.7	3082.1	2829.2	2495.4	2170.7	2033.2	2058.4	2173.8
42.5°	3551.5	3573.7	3506.9	3435.1	3254.1	2957.7	2604.7	2261.8	2139.4	2163.6	2221.3
45°	3788.2	3805.3	3712.3	3610.1	3397.7	3075.0	2725.0	2389.2	2295.1	2327.5	2298.2
47.5°	3830.6	3835.7	3819.5	3750.7	3511.0	3187.3	2873.7	2560.2	2532.9	2568.3	2430.7
50°	3536.3	3581.8	3681.9	3749.7	3556.5	3281.4	3022.4	2805.0	2860.6	2906.1	2705.8
52.5°	2964.8	3008.3	3239.9	3496.8	3447.3	3302.6	3182.2	3115.5	3322.9	3377.5	3080.1
55°	2361.9	2400.3	2645.1	3015.3	3094.2	3205.5	3353.2	3512.0	3912.6	3949.0	3490.8
57.5°	1945.2	1966.4	2141.4	2497.4	2623.9	2895.0	3445.2	3983.4	4512.4	4568.0	3847.8
60°	1595.2	1618.4	1748.9	2042.3	2210.2	2450.9	3372.4	4448.7	5228.6	5228.6	4306.0
62.5°	1200.7	1220.9	1342.3	1571.9	1854.1	2074.6	3139.8	4757.2	5768.7	5744.4	4637.8
65°	824.4	840.6	928.6	1081.3	1335.2	1768.1	2822.1	4761.2	6126.8	6094.4	4779.4
66°	691.9	706.0	780.9	904.3	1117.7	1604.3	2709.9	4675.3	6201.6	6156.1	4719.8
67.5°	546.2	556.3	605.9	678.7	819.3	1298.8	2532.9	4431.5	6194.6	6167.3	4568.0
70°	390.4	397.5	433.9	449.1	484.5	751.6	2011.9	3881.2	5697.9	5706.0	3971.2
72.5°	302.4	313.6	335.8	338.9	330.8	399.6	1220.9	3237.9	4661.1	4658.1	2947.6
75°	243.8	249.8	261.0	267.0	265.0	257.9	516.9	2415.5	3208.5	3246.0	1650.8
77.5°	192.2	191.2	201.3	209.4	215.5	202.3	236.7	1416.1	1682.2	1634.6	620.1
80°	141.6	141.6	155.8	158.8	167.9	169.9	157.8	546.2	577.6	525.0	160.8
82.5°	93.1	93.1	108.2	110.3	119.4	132.5	114.3	163.9	159.8	151.7	72.8
85°	50.6	48.6	53.6	60.7	65.7	77.9	68.8	81.9	84.0	82.9	48.6
87.5°	10.1	9.1	14.2	16.2	18.2	24.3	22.3	33.4	46.5	45.5	21.2
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°	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7	1288.7
2.5°	1296.8	1295.8	1306.9	1320.0	1335.2	1344.3	1348.4	1355.4	1350.4	1352.4	1358.5
5°	1316.0	1319.0	1335.2	1352.4	1359.5	1354.4	1343.3	1339.3	1330.2	1328.1	1326.1
7.5°	1344.3	1349.4	1365.6	1369.6	1348.4	1313.0	1287.7	1273.5	1258.3	1254.3	1252.3
10°	1390.8	1393.9	1397.9	1356.5	1303.9	1256.3	1225.0	1211.8	1201.7	1193.6	1195.6
12.5°	1449.5	1447.5	1416.1	1330.2	1255.3	1206.7	1185.5	1177.4	1170.3	1165.3	1164.3
15°	1523.4	1509.2	1419.2	1293.7	1209.8	1169.3	1154.1	1151.1	1143.0	1143.0	1142.0
17.5°	1598.2	1561.8	1417.1	1255.3	1166.3	1144.0	1134.9	1132.9	1130.9	1129.9	1132.9
20°	1673.1	1608.3	1401.0	1207.8	1135.9	1122.8	1120.8	1121.8	1119.8	1122.8	1120.8
22.5°	1738.8	1638.7	1370.6	1157.2	1114.7	1113.7	1108.6	1110.7	1117.7	1118.7	1121.8
25°	1789.4	1649.8	1326.1	1110.7	1099.5	1097.5	1103.6	1111.7	1117.7	1118.7	1123.8
27.5°	1830.9	1643.7	1270.5	1074.2	1073.2	1084.4	1102.6	1105.6	1106.6	1106.6	1102.6
30°	1862.2	1630.6	1199.7	1033.8	1038.8	1066.1	1083.3	1083.3	1075.2	1073.2	1079.3
32.5°	1869.3	1613.4	1122.8	992.3	1000.4	1032.8	1054.0	1046.9	1037.8	1037.8	1041.9
35°	1875.4	1590.1	1061.1	935.7	947.8	986.2	1006.5	992.3	982.2	979.2	978.1
37.5°	1873.3	1581.0	1005.5	863.8	880.0	917.5	930.6	917.5	902.3	895.2	904.3
40°	1875.4	1574.9	935.7	784.9	801.1	823.4	840.6	830.5	816.3	798.1	807.2
42.5°	1887.5	1583.0	858.8	708.1	708.1	720.2	749.5	742.5	708.1	701.0	709.1
45°	1952.2	1626.5	781.9	631.2	620.1	628.2	658.5	628.2	606.9	606.9	614.0
47.5°	2109.0	1707.4	714.1	563.4	537.1	553.3	561.4	533.1	516.9	512.8	519.9
50°	2428.7	1869.3	673.7	507.8	475.4	487.6	482.5	481.5	465.3	467.3	471.4
52.5°	2914.2	2184.9	661.5	480.5	440.0	443.0	438.0	440.0	437.0	447.1	450.1
55°	3443.2	2517.7	676.7	484.5	415.7	394.5	396.5	406.6	418.8	435.0	438.0
57.5°	3838.7	2684.6	716.2	511.8	385.4	353.0	358.1	377.3	400.6	413.7	420.8
60°	4133.1	2664.3	773.8	518.9	349.0	315.6	324.7	353.0	373.3	384.4	391.5
62.5°	4229.2	2537.9	788.0	467.3	301.4	280.2	302.4	331.8	340.9	353.0	358.1
65°	4150.3	2358.9	684.8	379.3	265.0	253.9	286.3	308.5	320.7	326.7	327.7
66°	4057.2	2251.6	629.2	344.9	251.9	245.8	280.2	298.4	310.5	309.5	310.5
67.5°	3852.9	2027.1	539.1	296.4	232.7	233.7	270.1	282.2	286.3	283.2	283.2
70°	3158.0	1427.3	386.4	224.6	204.3	218.5	242.8	245.8	254.9	250.9	250.9
72.5°	1947.2	701.0	258.9	172.0	182.1	204.3	203.3	213.4	234.7	240.7	244.8
75°	956.9	284.2	170.9	145.7	162.9	170.9	168.9	194.2	224.6	250.9	260.0
77.5°	363.1	141.6	119.4	127.5	131.5	128.5	134.5	176.0	224.6	272.1	281.2
80°	112.3	98.1	94.1	105.2	99.1	94.1	101.2	145.7	190.2	206.4	206.4
82.5°	67.8	76.9	72.8	71.8	66.8	67.8	72.8	104.2	146.7	153.8	153.8
85°	47.5	50.6	41.5	39.4	38.4	37.4	37.4	60.7	87.0	86.0	89.0
87.5°	18.2	20.2	15.2	15.2	14.2	10.1	8.1	10.1	10.1	7.1	5.1
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)