

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: P1210217

Luminaire Tested: **ARCH2-50-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210217
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: ARCH2-50-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8254 lumens
Efficiency: N/A
Efficacy: 152.9 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

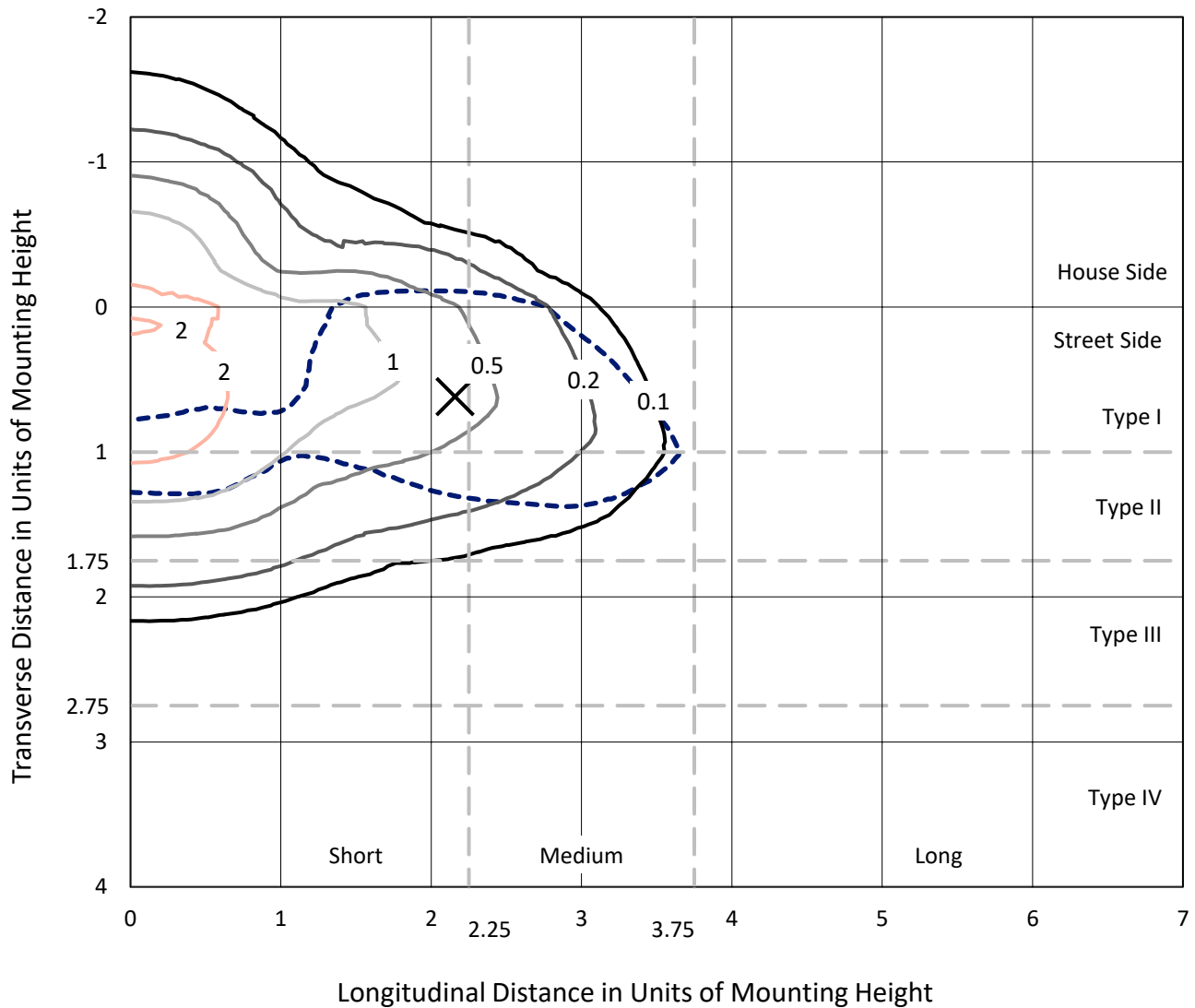


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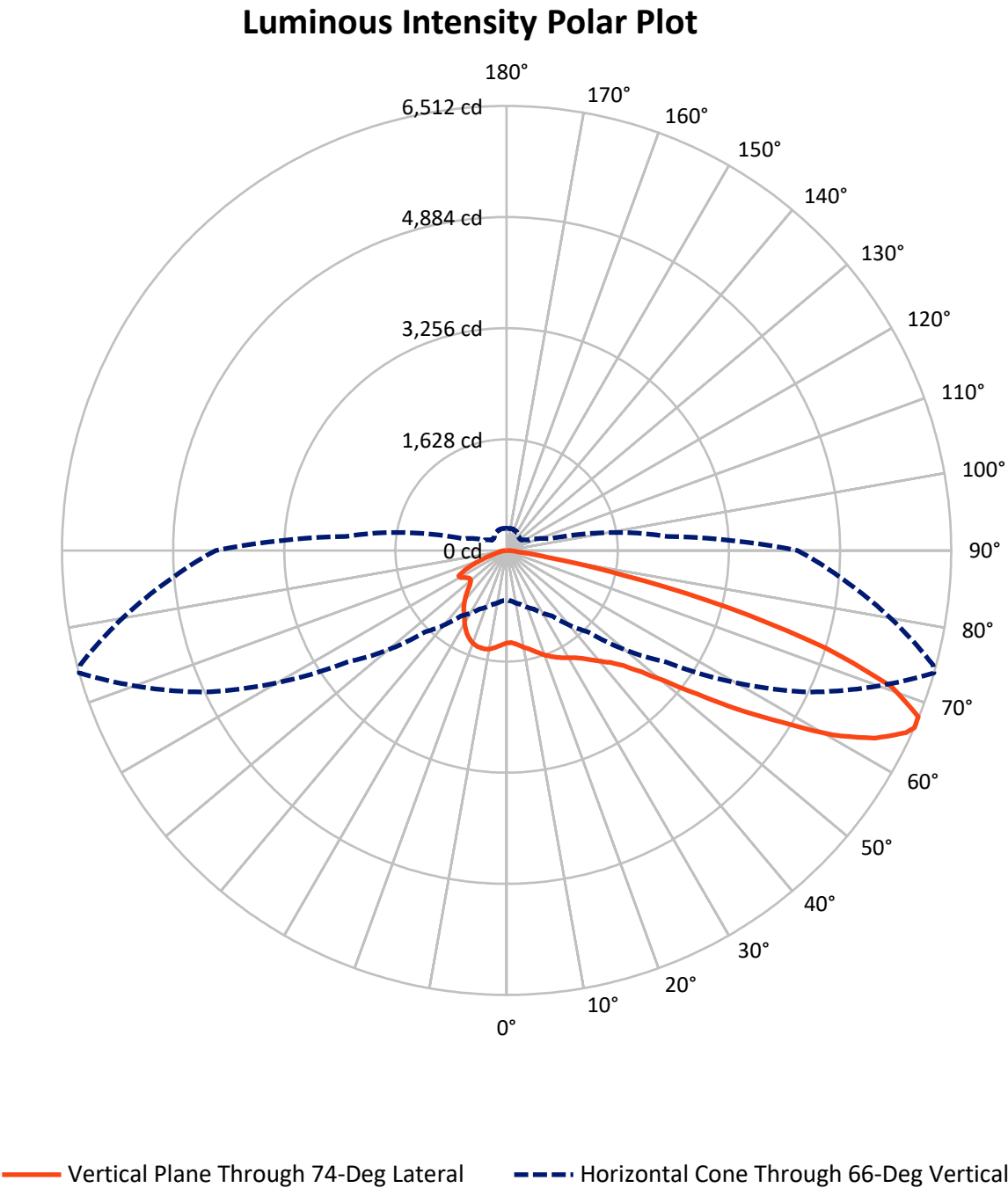
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type II - Short - N/A

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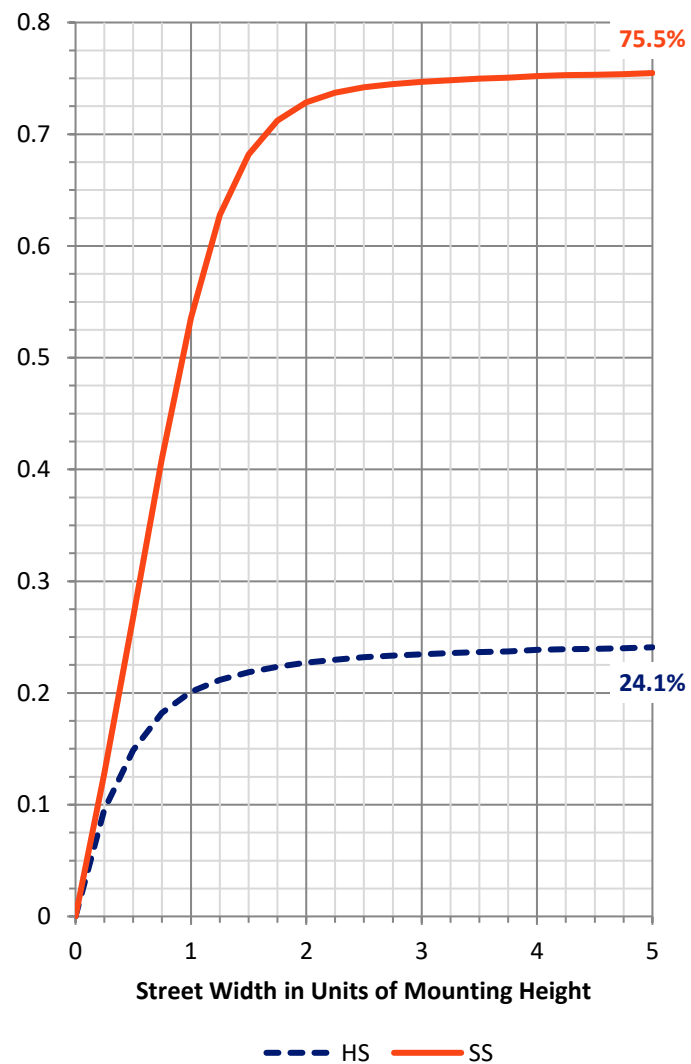
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2010.1	0.0	2010.1
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	6243.9	0.0	6243.9
	% Fixture	75.6	0.0	75.6
Total	Lumens	8254.0	0.0	8254.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	1.6
10°-20°	396.9	4.8
20°-30°	744.8	9.0
30°-40°	1145.7	13.9
40°-50°	1541.1	18.7
50°-60°	1822.6	22.1
60°-70°	1686.0	20.4
70°-80°	709.3	8.6
80°-90°	78.5	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°	8254.0	100.0
0°-180°	8254.0	100.0

Coefficient of Utilization



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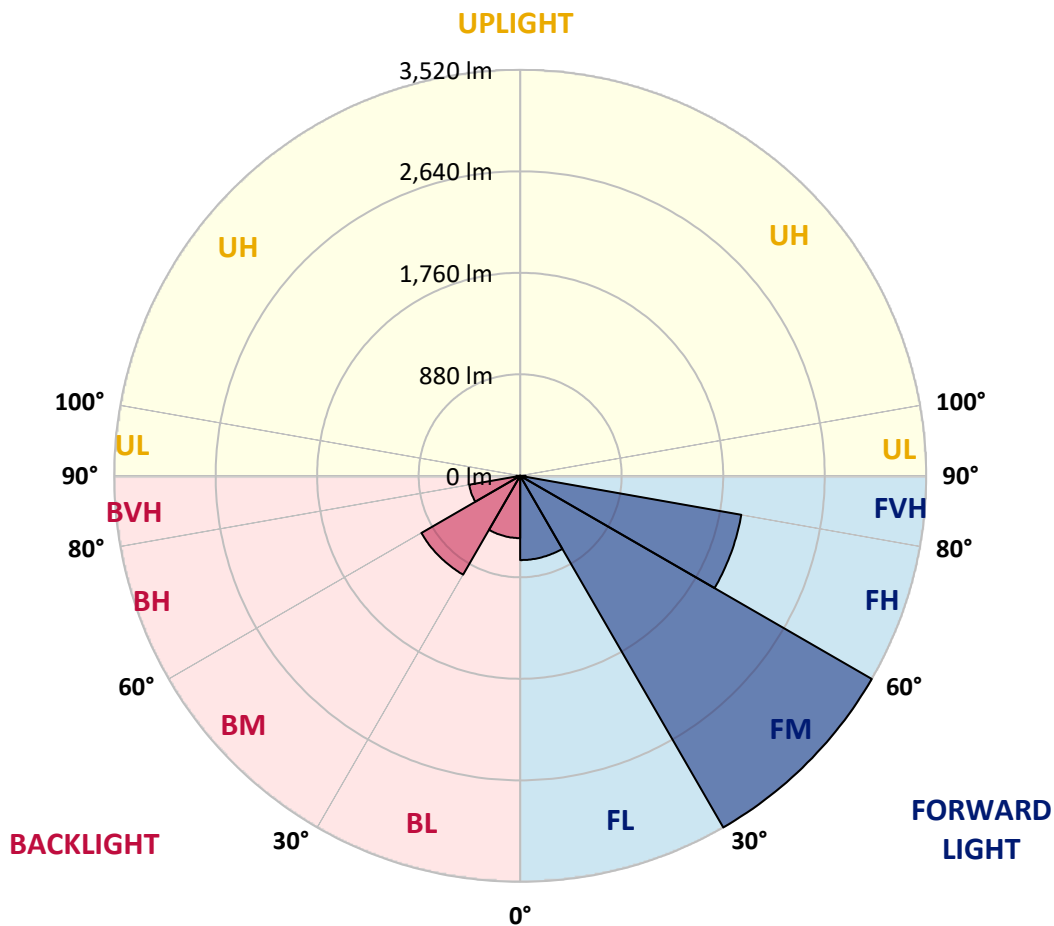
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	730.6	8.9			
FM	(30°-60°)	3519.9	42.6			
FH	(60°-80°)	1946.5	23.6			G2/5000
FVH	(80°-90°)	47.0	0.6			G1/100
BL	(0°-30°)	540.3	6.5	B2/1000		
BM	(30°-60°)	989.6	12.0	B1/1000		
BH	(60°-80°)	448.7	5.4	B1/500		G1/500
BVH	(80°-90°)	31.5	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°	1353.1	1353.1	1353.1	1353.1	1353.1	1353.1	1353.1	1353.1	1353.1	1353.1	1353.1
2.5°	1348.9	1346.7	1351.0	1357.4	1360.5	1355.2	1353.1	1352.0	1352.0	1348.9	1354.2
5°	1285.1	1284.1	1293.6	1305.3	1327.6	1343.5	1364.8	1377.5	1373.3	1366.9	1371.2
7.5°	1202.3	1200.2	1211.8	1234.2	1265.0	1300.0	1352.0	1392.4	1408.3	1406.2	1405.1
10°	1234.2	1232.0	1231.0	1224.6	1235.2	1269.2	1323.4	1394.5	1448.7	1449.8	1450.8
12.5°	1344.6	1349.9	1344.6	1324.4	1301.1	1288.3	1320.2	1399.8	1482.7	1489.1	1515.6
15°	1495.4	1490.1	1479.5	1456.1	1420.0	1381.8	1358.4	1424.3	1531.5	1536.8	1595.3
17.5°	1628.2	1632.4	1626.1	1603.8	1561.3	1511.4	1440.2	1466.7	1583.6	1598.4	1680.2
20°	1772.6	1789.6	1781.1	1753.5	1718.5	1644.1	1554.9	1528.4	1640.9	1651.6	1768.4
22.5°	1939.4	1957.4	1941.5	1915.0	1886.3	1794.9	1680.2	1603.8	1688.7	1711.0	1853.4
25°	2139.1	2156.0	2141.2	2099.8	2063.6	1952.1	1815.1	1688.7	1735.5	1759.9	1922.4
27.5°	2297.3	2310.0	2323.9	2299.4	2244.2	2128.4	1955.3	1776.9	1782.2	1807.7	1986.1
30°	2438.6	2470.4	2482.1	2485.3	2438.6	2309.0	2098.7	1868.2	1822.5	1849.1	2049.8
32.5°	2631.9	2679.7	2660.5	2679.7	2652.0	2478.9	2247.4	1962.7	1874.6	1899.0	2110.4
35°	2914.4	2952.6	2902.7	2887.8	2843.2	2651.0	2390.8	2060.5	1943.6	1970.2	2167.7
37.5°	3218.1	3261.7	3189.5	3130.0	3045.0	2820.9	2514.0	2189.0	2039.2	2060.5	2220.8
40°	3483.7	3519.8	3457.1	3378.5	3236.2	2970.7	2620.2	2279.2	2134.8	2161.4	2282.4
42.5°	3729.0	3752.4	3682.3	3606.9	3416.7	3105.6	2734.9	2374.8	2246.3	2271.8	2332.4
45°	3977.5	3995.6	3897.9	3790.6	3567.6	3228.8	2861.3	2508.7	2409.9	2443.9	2413.1
47.5°	4022.1	4027.5	4010.5	3938.2	3686.5	3346.7	3017.4	2688.2	2659.5	2696.7	2552.2
50°	3713.1	3760.9	3866.0	3937.2	3734.3	3445.4	3173.5	2945.2	3003.6	3051.4	2841.1
52.5°	3113.0	3158.7	3401.9	3671.7	3619.6	3467.7	3341.3	3271.2	3489.0	3546.3	3234.1
55°	2480.0	2520.3	2777.4	3166.1	3248.9	3365.8	3520.8	3687.6	4108.2	4146.4	3665.3
57.5°	2042.4	2064.7	2248.4	2622.3	2755.1	3039.7	3617.5	4182.5	4738.0	4796.4	4040.2
60°	1674.9	1699.3	1836.4	2144.4	2320.7	2573.4	3541.0	4671.1	5490.0	5490.0	4521.3
62.5°	1260.7	1281.9	1409.4	1650.5	1946.8	2178.4	3296.7	4995.0	6057.1	6031.6	4869.7
65°	865.6	882.6	975.0	1135.4	1402.0	1856.5	2963.2	4999.3	6433.1	6399.1	5018.4
66°	726.5	741.3	819.9	949.5	1173.6	1684.5	2845.3	4909.0	6511.7	6463.9	4955.7
67.5°	573.5	584.2	636.2	712.7	860.3	1363.7	2659.5	4653.0	6504.3	6475.6	4796.4
70°	410.0	417.4	455.6	471.6	508.7	789.1	2112.5	4075.2	5982.8	5991.3	4169.8
72.5°	317.6	329.2	352.6	355.8	347.3	419.5	1281.9	3399.8	4894.1	4890.9	3094.9
75°	256.0	262.3	274.0	280.4	278.3	270.8	542.7	2536.3	3369.0	3408.3	1733.3
77.5°	201.8	200.7	211.4	219.9	226.2	212.4	248.5	1486.9	1766.3	1716.3	651.1
80°	148.7	148.7	163.6	166.7	176.3	178.4	165.7	573.5	606.5	551.2	168.9
82.5°	97.7	97.7	113.6	115.8	125.3	139.1	120.0	172.1	167.8	159.3	76.5
85°	53.1	51.0	56.3	63.7	69.0	81.8	72.2	86.0	88.2	87.1	51.0
87.5°	10.6	9.6	14.9	17.0	19.1	25.5	23.4	35.0	48.9	47.8	22.3
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°	1353.1	1353.1	1353.1	1353.1	1353.1	1353.1	1353.1	1353.1	1353.1	1353.1	1353.1
2.5°	1361.6	1360.5	1372.2	1386.0	1402.0	1411.5	1415.8	1423.2	1417.9	1420.0	1426.4
5°	1381.8	1385.0	1402.0	1420.0	1427.5	1422.1	1410.5	1406.2	1396.7	1394.5	1392.4
7.5°	1411.5	1416.8	1433.8	1438.1	1415.8	1378.6	1352.0	1337.2	1321.2	1317.0	1314.9
10°	1460.4	1463.6	1467.8	1424.3	1369.0	1319.1	1286.2	1272.4	1261.8	1253.3	1255.4
12.5°	1522.0	1519.9	1486.9	1396.7	1318.1	1267.1	1244.8	1236.3	1228.8	1223.5	1222.5
15°	1599.5	1584.6	1490.1	1358.4	1270.3	1227.8	1211.8	1208.7	1200.2	1200.2	1199.1
17.5°	1678.1	1639.9	1488.0	1318.1	1224.6	1201.2	1191.7	1189.5	1187.4	1186.4	1189.5
20°	1756.7	1688.7	1471.0	1268.1	1192.7	1178.9	1176.8	1177.9	1175.7	1178.9	1176.8
22.5°	1825.7	1720.6	1439.1	1215.0	1170.4	1169.4	1164.1	1166.2	1173.6	1174.7	1177.9
25°	1878.8	1732.3	1392.4	1166.2	1154.5	1152.4	1158.7	1167.2	1173.6	1174.7	1180.0
27.5°	1922.4	1725.9	1334.0	1127.9	1126.9	1138.6	1157.7	1160.9	1161.9	1161.9	1157.7
30°	1955.3	1712.1	1259.6	1085.5	1090.8	1119.4	1137.5	1137.5	1129.0	1126.9	1133.3
32.5°	1962.7	1694.0	1178.9	1041.9	1050.4	1084.4	1106.7	1099.3	1089.7	1089.7	1094.0
35°	1969.1	1669.6	1114.1	982.4	995.2	1035.5	1056.8	1041.9	1031.3	1028.1	1027.0
37.5°	1967.0	1660.0	1055.7	907.0	924.0	963.3	977.1	963.3	947.4	940.0	949.5
40°	1969.1	1653.7	982.4	824.2	841.2	864.5	882.6	872.0	857.1	838.0	847.5
42.5°	1981.9	1662.2	901.7	743.5	743.5	756.2	787.0	779.6	743.5	736.0	744.5
45°	2049.8	1707.8	821.0	662.7	651.1	659.6	691.4	659.6	637.3	637.3	644.7
47.5°	2214.5	1792.8	749.8	591.6	564.0	581.0	589.5	559.7	542.7	538.5	545.9
50°	2550.1	1962.7	707.4	533.2	499.2	511.9	506.6	505.6	488.6	490.7	494.9
52.5°	3059.9	2294.1	694.6	504.5	462.0	465.2	459.9	462.0	458.8	469.4	472.6
55°	3615.4	2643.5	710.5	508.7	436.5	414.2	416.3	427.0	439.7	456.7	459.9
57.5°	4030.6	2818.8	752.0	537.4	404.7	370.7	376.0	396.2	420.6	434.4	441.8
60°	4339.7	2797.5	812.5	544.9	366.4	331.4	340.9	370.7	391.9	403.6	411.0
62.5°	4440.6	2664.8	827.4	490.7	316.5	294.2	317.6	348.4	357.9	370.7	376.0
65°	4357.8	2476.8	719.0	398.3	278.3	266.6	300.6	323.9	336.7	343.1	344.1
66°	4260.1	2364.2	660.6	362.2	264.5	258.1	294.2	313.3	326.1	325.0	326.1
67.5°	4045.5	2128.4	566.1	311.2	244.3	245.3	283.6	296.3	300.6	297.4	297.4
70°	3315.9	1498.6	405.7	235.8	214.5	229.4	254.9	258.1	267.6	263.4	263.4
72.5°	2044.5	736.0	271.9	180.6	191.2	214.5	213.5	224.1	246.4	252.8	257.0
75°	1004.7	298.4	179.5	152.9	171.0	179.5	177.4	203.9	235.8	263.4	273.0
77.5°	381.3	148.7	125.3	133.8	138.1	134.9	141.3	184.8	235.8	285.7	295.3
80°	117.9	103.0	98.8	110.5	104.1	98.8	106.2	152.9	199.7	216.7	216.7
82.5°	71.2	80.7	76.5	75.4	70.1	71.2	76.5	109.4	154.0	161.4	161.4
85°	49.9	53.1	43.5	41.4	40.4	39.3	39.3	63.7	91.3	90.3	93.5
87.5°	19.1	21.2	15.9	15.9	14.9	10.6	8.5	10.6	10.6	7.4	5.3
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)