

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: P1211577

Luminaire Tested: **ARCH4-50-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211577
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: ARCH4-50-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8735 lumens
Efficiency: N/A
Efficacy: 164.2 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

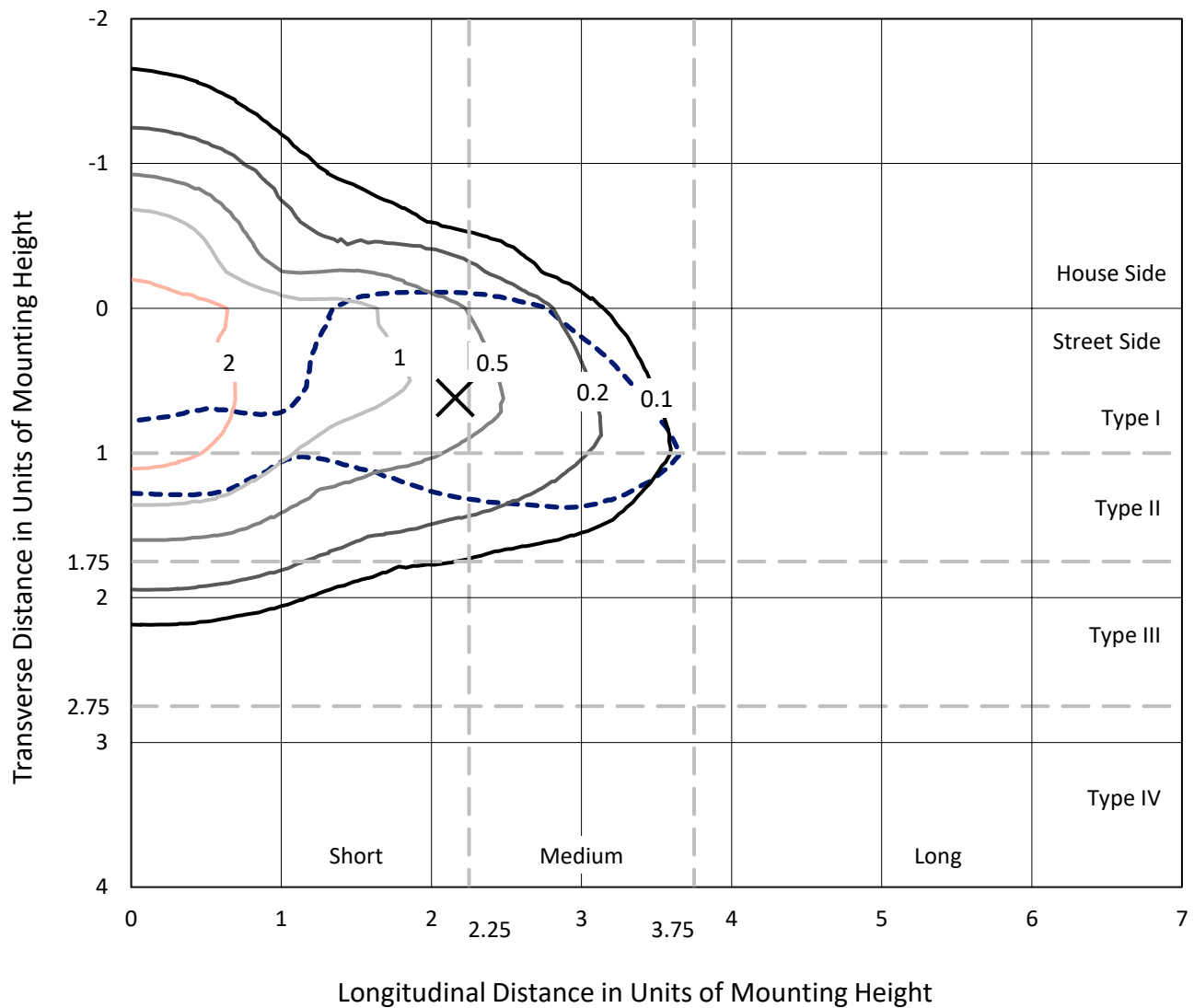


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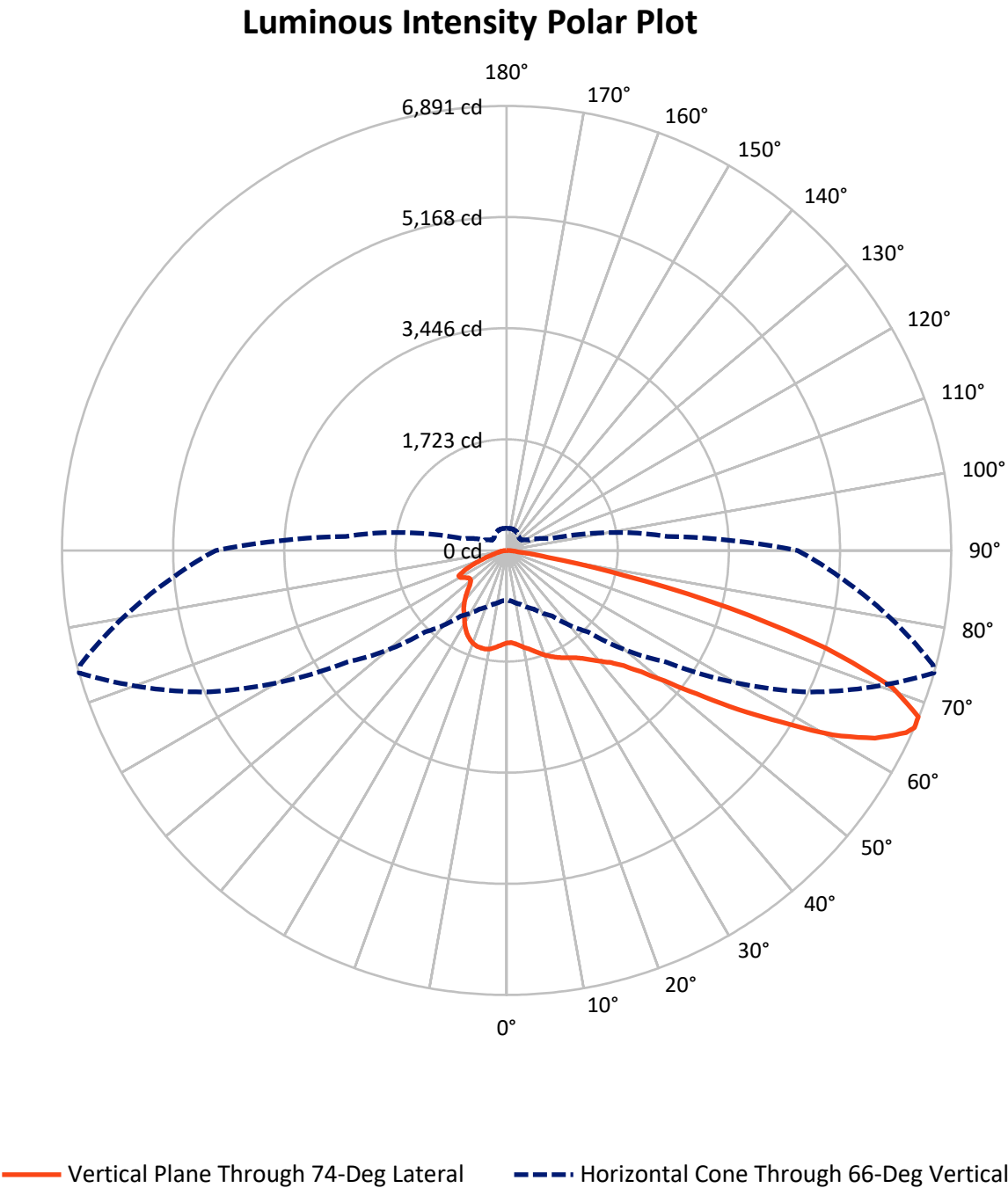
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2127.2	0.0	2127.2
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	6607.8	0.0	6607.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	8735.0	0.0	8735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	1.6
10°-20°	420.1	4.8
20°-30°	788.2	9.0
30°-40°	1212.5	13.9
40°-50°	1630.9	18.7
50°-60°	1928.8	22.1
60°-70°	1784.2	20.4
70°-80°	750.6	8.6
80°-90°	83.1	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°	8735.0	100.0
0°-180°	8735.0	100.0

Coefficient of Utilization



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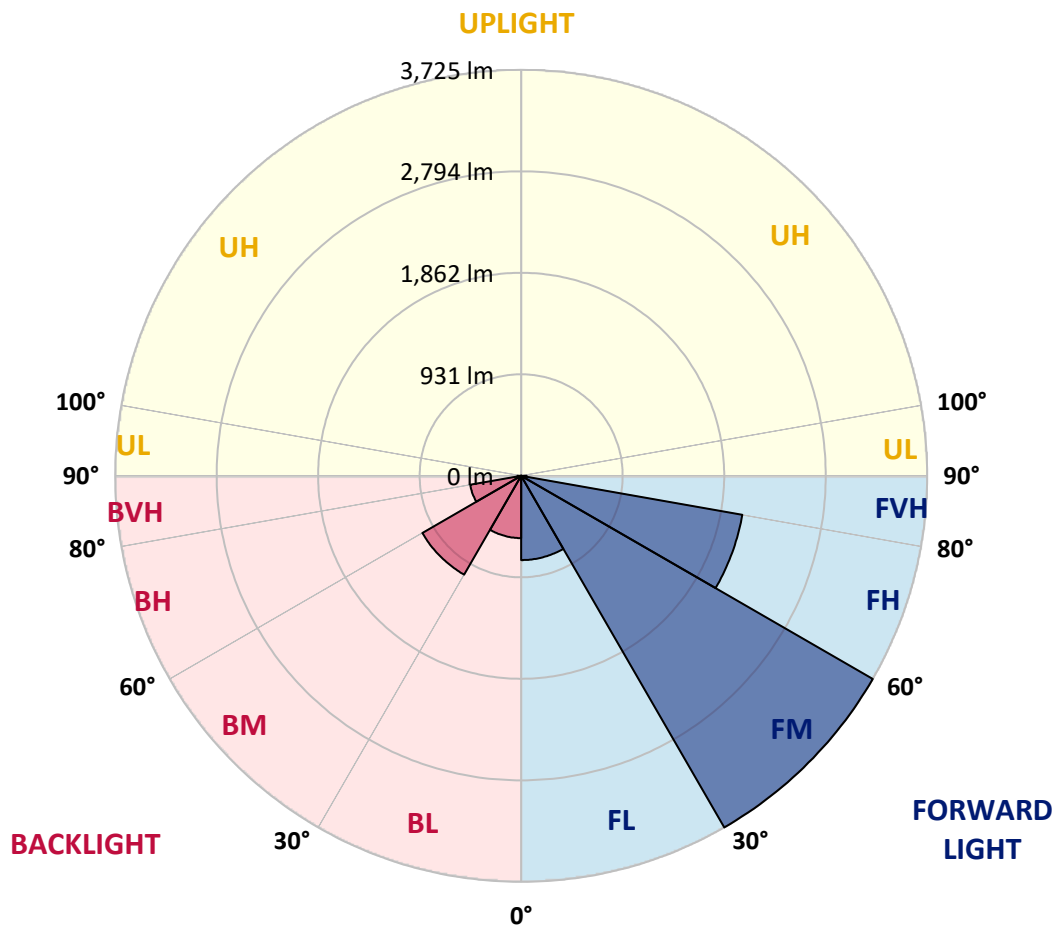
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	773.2	8.9			
FM	(30°-60°)	3725.0	42.6			
FH	(60°-80°)	2060.0	23.6			G2/5000
FVH	(80°-90°)	49.7	0.6			G1/100
BL	(0°-30°)	571.7	6.5	B2/1000		
BM	(30°-60°)	1047.2	12.0	B2/2500		
BH	(60°-80°)	474.9	5.4	B1/500		G1/500
BVH	(80°-90°)	33.4	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°	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0
2.5°	1427.5	1425.2	1429.7	1436.5	1439.8	1434.2	1432.0	1430.8	1430.8	1427.5	1433.1
5°	1360.0	1358.9	1369.0	1381.4	1405.0	1421.8	1444.3	1457.8	1453.3	1446.6	1451.1
7.5°	1272.4	1270.1	1282.5	1306.1	1338.7	1375.8	1430.8	1473.5	1490.4	1488.2	1487.0
10°	1306.1	1303.8	1302.7	1296.0	1307.2	1343.2	1400.5	1475.8	1533.1	1534.2	1535.4
12.5°	1423.0	1428.6	1423.0	1401.6	1376.9	1363.4	1397.1	1481.4	1569.1	1575.8	1603.9
15°	1582.6	1577.0	1565.7	1541.0	1502.8	1462.3	1437.6	1507.3	1620.8	1626.4	1688.2
17.5°	1723.1	1727.6	1720.8	1697.2	1652.3	1599.4	1524.1	1552.2	1675.9	1691.6	1778.1
20°	1875.9	1893.9	1884.9	1855.7	1818.6	1739.9	1645.5	1617.4	1736.6	1747.8	1871.4
22.5°	2052.4	2071.5	2054.6	2026.5	1996.2	1899.5	1778.1	1697.2	1787.1	1810.7	1961.4
25°	2263.7	2281.7	2266.0	2222.1	2183.9	2065.9	1920.9	1787.1	1836.6	1862.4	2034.4
27.5°	2431.2	2444.7	2459.3	2433.4	2375.0	2252.5	2069.3	1880.4	1886.0	1913.0	2101.9
30°	2580.7	2614.4	2626.8	2630.1	2580.7	2443.5	2221.0	1977.1	1928.8	1956.9	2169.3
32.5°	2785.2	2835.8	2815.6	2835.8	2806.6	2623.4	2378.4	2077.1	1983.8	2009.7	2233.4
35°	3084.2	3124.7	3071.9	3056.1	3008.9	2805.5	2530.1	2180.5	2056.9	2085.0	2294.1
37.5°	3405.7	3451.8	3375.3	3312.4	3222.5	2985.3	2660.5	2316.5	2158.1	2180.5	2350.3
40°	3686.7	3724.9	3658.6	3575.4	3424.8	3143.8	2772.9	2412.1	2259.2	2287.3	2415.4
42.5°	3946.3	3971.0	3896.9	3817.1	3615.9	3286.5	2894.3	2513.2	2377.2	2404.2	2468.3
45°	4209.3	4228.4	4125.0	4011.5	3775.5	3416.9	3028.0	2654.9	2550.3	2586.3	2553.7
47.5°	4256.5	4262.2	4244.2	4167.7	3901.4	3541.7	3193.2	2844.8	2814.5	2853.8	2700.9
50°	3929.5	3980.0	4091.3	4166.6	3951.9	3646.2	3358.5	3116.8	3178.6	3229.2	3006.7
52.5°	3294.4	3342.7	3600.1	3885.6	3830.5	3669.8	3536.1	3461.9	3692.3	3753.0	3422.5
55°	2624.5	2667.2	2939.2	3350.6	3438.3	3561.9	3726.0	3902.5	4347.6	4388.0	3878.9
57.5°	2161.4	2185.0	2379.5	2775.1	2915.6	3216.8	3828.3	4426.3	5014.1	5075.9	4275.6
60°	1772.5	1798.4	1943.4	2269.3	2455.9	2723.4	3747.4	4943.3	5809.9	5809.9	4784.8
62.5°	1334.2	1356.6	1491.5	1746.7	2060.3	2305.3	3488.8	5286.1	6410.1	6383.1	5153.5
65°	916.0	934.0	1031.8	1201.5	1483.7	1964.7	3135.9	5290.6	6808.0	6772.0	5310.8
66°	768.8	784.5	867.7	1004.8	1242.0	1782.6	3011.2	5195.1	6891.2	6840.6	5244.5
67.5°	607.0	618.2	673.3	754.2	910.4	1443.2	2814.5	4924.2	6883.3	6852.9	5075.9
70°	433.9	441.7	482.2	499.0	538.4	835.1	2235.6	4312.7	6331.4	6340.4	4412.8
72.5°	336.1	348.4	373.2	376.5	367.5	444.0	1356.6	3597.9	5179.3	5176.0	3275.3
75°	270.9	277.6	290.0	296.7	294.5	286.6	574.4	2684.1	3565.3	3606.9	1834.3
77.5°	213.6	212.4	223.7	232.7	239.4	224.8	263.0	1573.6	1869.2	1816.4	689.0
80°	157.4	157.4	173.1	176.5	186.6	188.8	175.3	607.0	641.8	583.3	178.7
82.5°	103.4	103.4	120.3	122.5	132.6	147.2	127.0	182.1	177.6	168.6	80.9
85°	56.2	54.0	59.6	67.4	73.1	86.5	76.4	91.0	93.3	92.2	54.0
87.5°	11.2	10.1	15.7	18.0	20.2	27.0	24.7	37.1	51.7	50.6	23.6
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°	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0
2.5°	1440.9	1439.8	1452.2	1466.8	1483.7	1493.8	1498.3	1506.1	1500.5	1502.8	1509.5
5°	1462.3	1465.7	1483.7	1502.8	1510.6	1505.0	1492.7	1488.2	1478.0	1475.8	1473.5
7.5°	1493.8	1499.4	1517.4	1521.9	1498.3	1458.9	1430.8	1415.1	1398.2	1393.7	1391.5
10°	1545.5	1548.9	1553.3	1507.3	1448.8	1396.0	1361.1	1346.5	1335.3	1326.3	1328.6
12.5°	1610.7	1608.4	1573.6	1478.0	1394.9	1340.9	1317.3	1308.3	1300.5	1294.8	1293.7
15°	1692.7	1677.0	1577.0	1437.6	1344.3	1299.3	1282.5	1279.1	1270.1	1270.1	1269.0
17.5°	1775.9	1735.4	1574.7	1394.9	1296.0	1271.2	1261.1	1258.9	1256.6	1255.5	1258.9
20°	1859.1	1787.1	1556.7	1342.0	1262.2	1247.6	1245.4	1246.5	1244.3	1247.6	1245.4
22.5°	1932.1	1820.9	1523.0	1285.8	1238.6	1237.5	1231.9	1234.1	1242.0	1243.1	1246.5
25°	1988.3	1833.2	1473.5	1234.1	1221.8	1219.5	1226.3	1235.3	1242.0	1243.1	1248.7
27.5°	2034.4	1826.5	1411.7	1193.7	1192.5	1204.9	1225.1	1228.5	1229.6	1229.6	1225.1
30°	2069.3	1811.9	1333.0	1148.7	1154.3	1184.7	1203.8	1203.8	1194.8	1192.5	1199.3
32.5°	2077.1	1792.8	1247.6	1102.6	1111.6	1147.6	1171.2	1163.3	1153.2	1153.2	1157.7
35°	2083.9	1766.9	1179.1	1039.7	1053.2	1095.9	1118.4	1102.6	1091.4	1088.0	1086.9
37.5°	2081.6	1756.8	1117.2	959.9	977.9	1019.5	1034.1	1019.5	1002.6	994.7	1004.8
40°	2083.9	1750.0	1039.7	872.2	890.2	914.9	934.0	922.8	907.1	886.8	896.9
42.5°	2097.4	1759.0	954.3	786.8	786.8	800.3	832.9	825.0	786.8	778.9	787.9
45°	2169.3	1807.4	868.8	701.4	689.0	698.0	731.7	698.0	674.4	674.4	682.3
47.5°	2343.5	1897.3	793.5	626.1	596.8	614.8	623.8	592.3	574.4	569.9	577.7
50°	2698.7	2077.1	748.6	564.2	528.3	541.8	536.1	535.0	517.0	519.3	523.8
52.5°	3238.2	2427.8	735.1	533.9	488.9	492.3	486.7	488.9	485.6	496.8	500.2
55°	3826.0	2797.6	751.9	538.4	462.0	438.4	440.6	451.8	465.3	483.3	486.7
57.5°	4265.5	2983.1	795.8	568.7	428.2	392.3	397.9	419.2	445.1	459.7	467.6
60°	4592.6	2960.6	859.8	576.6	387.8	350.7	360.8	392.3	414.8	427.1	435.0
62.5°	4699.4	2820.1	875.6	519.3	334.9	311.3	336.1	368.7	378.8	392.3	397.9
65°	4611.7	2621.1	760.9	421.5	294.5	282.1	318.1	342.8	356.3	363.0	364.2
66°	4508.3	2502.0	699.1	383.3	279.9	273.1	311.3	331.6	345.1	343.9	345.1
67.5°	4281.3	2252.5	599.1	329.3	258.5	259.6	300.1	313.6	318.1	314.7	314.7
70°	3509.1	1585.9	429.4	249.5	227.0	242.8	269.8	273.1	283.2	278.7	278.7
72.5°	2163.7	778.9	287.7	191.1	202.3	227.0	225.9	237.2	260.8	267.5	272.0
75°	1063.3	315.8	190.0	161.9	181.0	190.0	187.7	215.8	249.5	278.7	288.9
77.5°	403.5	157.4	132.6	141.6	146.1	142.7	149.5	195.6	249.5	302.4	312.5
80°	124.8	109.0	104.5	116.9	110.2	104.5	112.4	161.9	211.3	229.3	229.3
82.5°	75.3	85.4	80.9	79.8	74.2	75.3	80.9	115.8	163.0	170.8	170.8
85°	52.8	56.2	46.1	43.8	42.7	41.6	41.6	67.4	96.7	95.5	98.9
87.5°	20.2	22.5	16.9	16.9	15.7	11.2	9.0	11.2	11.2	7.9	5.6
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)