

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: P1210713

Luminaire Tested: **ARCH3-50-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210713
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: ARCH3-50-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8321 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 53.6
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

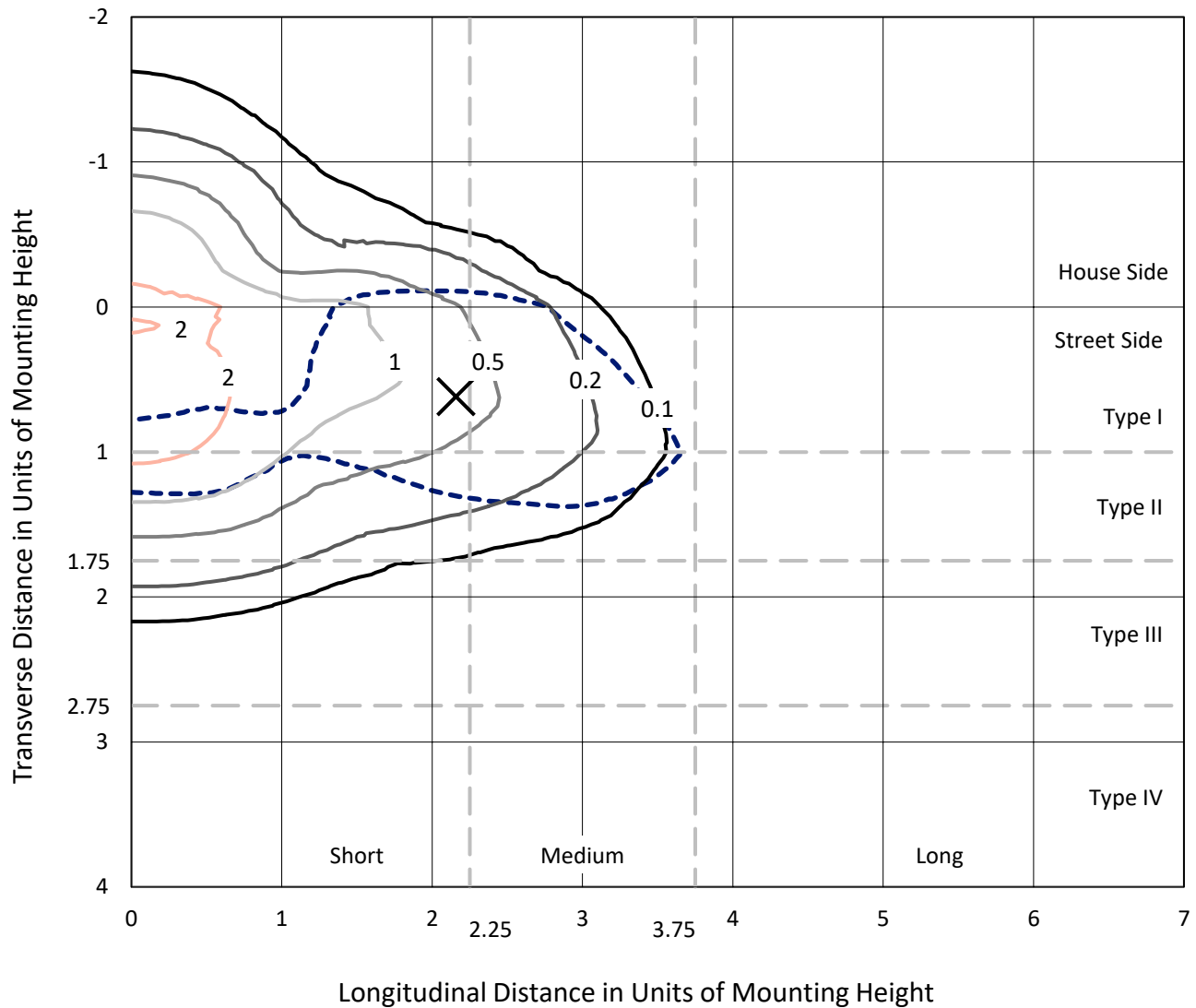


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Iso-Footcandle Lines of Horizontal Illumination

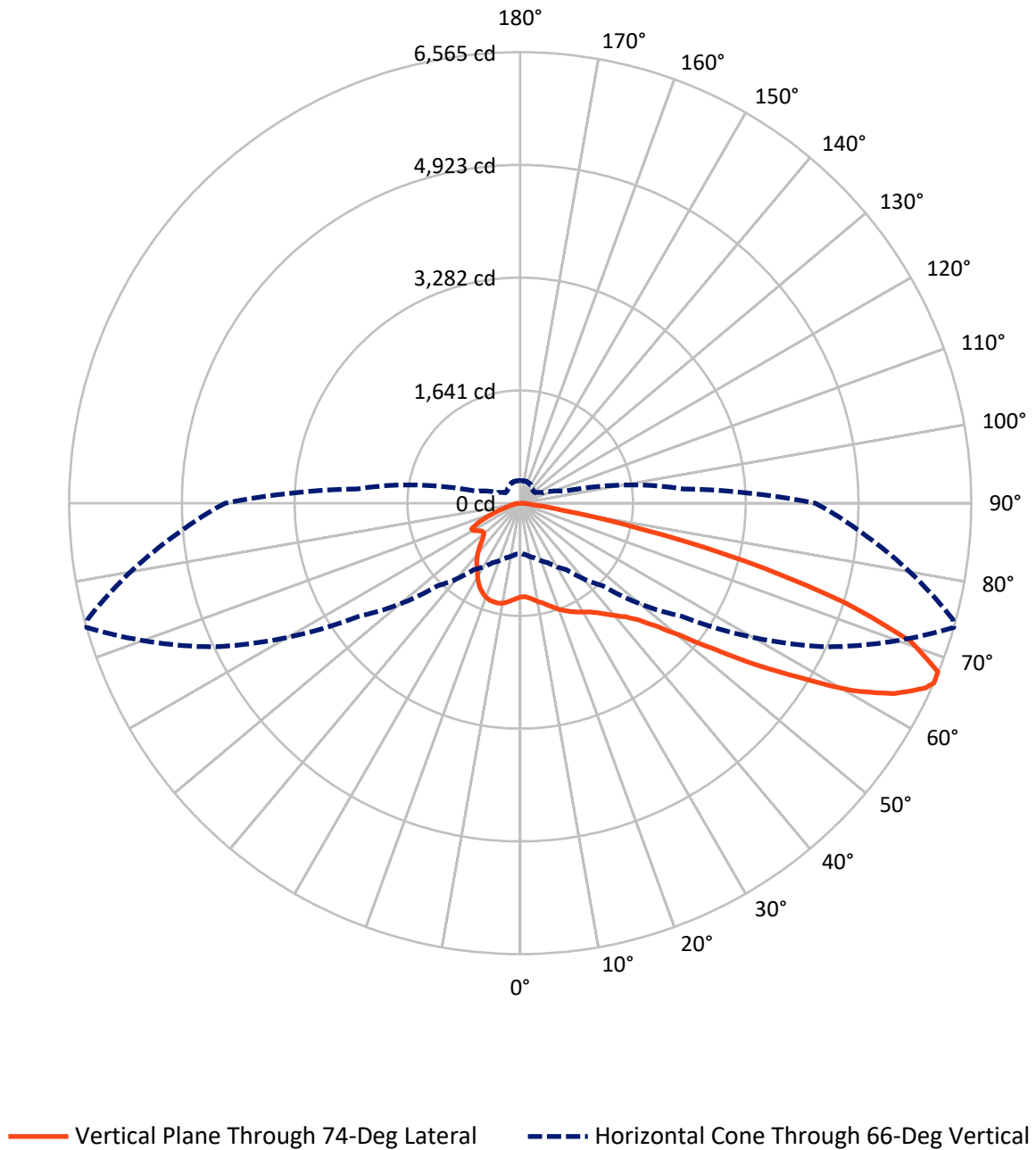
× Max cd
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2026.4	0.0	2026.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	6294.6	0.0	6294.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	8321.0	0.0	8321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.6
10°-20°	400.1	4.8
20°-30°	750.9	9.0
30°-40°	1155.0	13.9
40°-50°	1553.6	18.7
50°-60°	1837.4	22.1
60°-70°	1699.7	20.4
70°-80°	715.0	8.6
80°-90°	79.1	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°	8321.0	100.0
0°-180°	8321.0	100.0

Coefficient of Utilization



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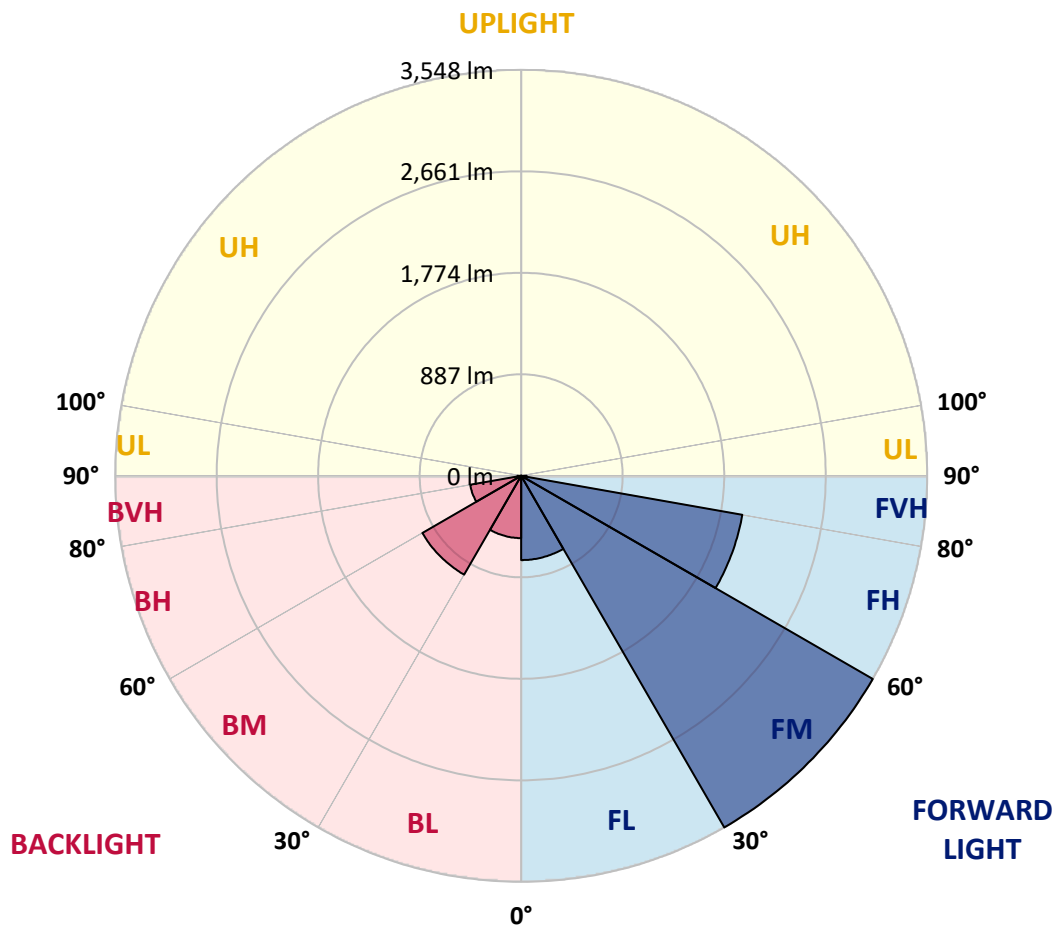
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	736.5	8.9			
FM	(30°-60°)	3548.4	42.6			
FH	(60°-80°)	1962.3	23.6			G2/5000
FVH	(80°-90°)	47.3	0.6			G1/100
BL	(0°-30°)	544.6	6.5	B2/1000		
BM	(30°-60°)	997.6	12.0	B1/1000		
BH	(60°-80°)	452.4	5.4	B1/500		G1/500
BVH	(80°-90°)	31.8	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°	1364.1	1364.1	1364.1	1364.1	1364.1	1364.1	1364.1	1364.1	1364.1	1364.1	1364.1
2.5°	1359.8	1357.7	1361.9	1368.4	1371.6	1366.2	1364.1	1363.0	1363.0	1359.8	1365.2
5°	1295.6	1294.5	1304.1	1315.9	1338.4	1354.5	1375.9	1388.7	1384.4	1378.0	1382.3
7.5°	1212.0	1209.9	1221.7	1244.2	1275.2	1310.6	1363.0	1403.7	1419.8	1417.6	1416.6
10°	1244.2	1242.0	1241.0	1234.5	1245.2	1279.5	1334.1	1405.8	1460.5	1461.5	1462.6
12.5°	1355.5	1360.9	1355.5	1335.2	1311.6	1298.8	1330.9	1411.2	1494.7	1501.1	1527.9
15°	1507.6	1502.2	1491.5	1467.9	1431.5	1393.0	1369.4	1435.8	1544.0	1549.3	1608.2
17.5°	1641.4	1645.7	1639.3	1616.8	1573.9	1523.6	1451.9	1478.7	1596.4	1611.4	1693.9
20°	1787.0	1804.2	1795.6	1767.7	1732.4	1657.5	1567.5	1540.8	1654.3	1665.0	1782.7
22.5°	1955.1	1973.3	1957.3	1930.5	1901.6	1809.5	1693.9	1616.8	1702.4	1724.9	1868.4
25°	2156.4	2173.5	2158.6	2116.8	2080.4	1968.0	1829.8	1702.4	1749.5	1774.2	1938.0
27.5°	2316.0	2328.8	2342.7	2318.1	2262.4	2145.7	1971.2	1791.3	1796.7	1822.4	2002.2
30°	2458.4	2490.5	2502.3	2505.5	2458.4	2327.7	2115.7	1883.4	1837.3	1864.1	2066.5
32.5°	2653.2	2701.4	2682.1	2701.4	2673.6	2499.0	2265.6	1978.7	1889.8	1914.4	2127.5
35°	2938.0	2976.6	2926.3	2911.3	2866.3	2672.5	2410.2	2077.2	1959.4	1986.2	2185.3
37.5°	3244.3	3288.2	3215.4	3155.4	3069.7	2843.8	2534.4	2206.7	2055.8	2077.2	2238.9
40°	3511.9	3548.3	3485.2	3405.9	3262.5	2994.8	2641.4	2297.8	2152.1	2178.9	2301.0
42.5°	3759.3	3782.8	3712.2	3636.1	3444.5	3130.8	2757.1	2394.1	2264.6	2290.3	2351.3
45°	4009.8	4028.0	3929.5	3821.4	3596.5	3255.0	2884.5	2529.0	2429.4	2463.7	2432.7
47.5°	4054.8	4060.1	4043.0	3970.2	3716.4	3373.8	3041.9	2710.0	2681.1	2718.5	2572.9
50°	3743.2	3791.4	3897.4	3969.1	3764.6	3473.4	3199.3	2969.1	3028.0	3076.2	2864.2
52.5°	3138.3	3184.3	3429.5	3701.5	3649.0	3495.9	3368.5	3297.8	3517.3	3575.1	3260.3
55°	2500.1	2540.8	2799.9	3191.8	3275.3	3393.1	3549.4	3717.5	4141.5	4180.1	3695.0
57.5°	2059.0	2081.5	2266.7	2643.6	2777.4	3064.4	3646.8	4216.5	4776.5	4835.3	4073.0
60°	1688.5	1713.1	1851.3	2161.8	2339.5	2594.3	3569.8	4709.0	5534.5	5534.5	4558.0
62.5°	1270.9	1292.4	1420.8	1663.9	1962.6	2196.0	3323.5	5035.6	6106.3	6080.6	4909.2
65°	872.6	889.8	982.9	1144.6	1413.3	1871.6	2987.3	5039.8	6485.3	6451.0	5059.1
66°	732.4	747.4	826.6	957.2	1183.1	1698.2	2868.4	4948.8	6564.5	6516.4	4995.9
67.5°	578.2	588.9	641.4	718.4	867.3	1374.8	2681.1	4690.8	6557.0	6528.1	4835.3
70°	413.3	420.8	459.3	475.4	512.9	795.5	2129.6	4108.3	6031.3	6039.9	4203.6
72.5°	320.1	331.9	355.5	358.7	350.1	422.9	1292.4	3427.4	4933.8	4930.6	3120.1
75°	258.0	264.5	276.2	282.7	280.5	273.0	547.1	2556.9	3396.3	3435.9	1747.4
77.5°	203.4	202.4	213.1	221.6	228.1	214.1	250.5	1499.0	1780.6	1730.3	656.3
80°	149.9	149.9	164.9	168.1	177.7	179.9	167.0	578.2	611.4	555.7	170.2
82.5°	98.5	98.5	114.6	116.7	126.3	140.3	121.0	173.5	169.2	160.6	77.1
85°	53.5	51.4	56.7	64.2	69.6	82.4	72.8	86.7	88.9	87.8	51.4
87.5°	10.7	9.6	15.0	17.1	19.3	25.7	23.6	35.3	49.3	48.2	22.5
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°	1364.1	1364.1	1364.1	1364.1	1364.1	1364.1	1364.1	1364.1	1364.1	1364.1	1364.1
2.5°	1372.7	1371.6	1383.4	1397.3	1413.3	1423.0	1427.3	1434.8	1429.4	1431.5	1438.0
5°	1393.0	1396.2	1413.3	1431.5	1439.0	1433.7	1421.9	1417.6	1408.0	1405.8	1403.7
7.5°	1423.0	1428.3	1445.5	1449.7	1427.3	1389.8	1363.0	1348.0	1332.0	1327.7	1325.5
10°	1472.2	1475.4	1479.7	1435.8	1380.1	1329.8	1296.6	1282.7	1272.0	1263.4	1265.6
12.5°	1534.3	1532.2	1499.0	1408.0	1328.8	1277.4	1254.9	1246.3	1238.8	1233.5	1232.4
15°	1612.5	1597.5	1502.2	1369.4	1280.6	1237.7	1221.7	1218.5	1209.9	1209.9	1208.8
17.5°	1691.7	1653.2	1500.1	1328.8	1234.5	1211.0	1201.3	1199.2	1197.1	1196.0	1199.2
20°	1771.0	1702.4	1482.9	1278.4	1202.4	1188.5	1186.4	1187.4	1185.3	1188.5	1186.4
22.5°	1840.6	1734.6	1450.8	1224.9	1179.9	1178.9	1173.5	1175.6	1183.1	1184.2	1187.4
25°	1894.1	1746.3	1403.7	1175.6	1163.9	1161.7	1168.1	1176.7	1183.1	1184.2	1189.6
27.5°	1938.0	1739.9	1344.8	1137.1	1136.0	1147.8	1167.1	1170.3	1171.4	1171.4	1167.1
30°	1971.2	1726.0	1269.9	1094.3	1099.6	1128.5	1146.7	1146.7	1138.2	1136.0	1142.5
32.5°	1978.7	1707.8	1188.5	1050.4	1058.9	1093.2	1115.7	1108.2	1098.6	1098.6	1102.8
35°	1985.1	1683.2	1123.2	990.4	1003.3	1043.9	1065.4	1050.4	1039.7	1036.5	1035.4
37.5°	1983.0	1673.5	1064.3	914.4	931.5	971.1	985.1	971.1	955.1	947.6	957.2
40°	1985.1	1667.1	990.4	830.9	848.0	871.6	889.8	879.1	864.1	844.8	854.4
42.5°	1998.0	1675.7	909.0	749.5	749.5	762.3	793.4	785.9	749.5	742.0	750.6
45°	2066.5	1721.7	827.7	668.1	656.3	664.9	697.0	664.9	642.4	642.4	649.9
47.5°	2232.4	1807.4	755.9	596.4	568.5	585.7	594.2	564.3	547.1	542.9	550.3
50°	2570.8	1978.7	713.1	537.5	503.2	516.1	510.7	509.7	492.5	494.7	499.0
52.5°	3084.7	2312.7	700.2	508.6	465.8	469.0	463.6	465.8	462.5	473.3	476.5
55°	3644.7	2665.0	716.3	512.9	440.1	417.6	419.7	430.4	443.3	460.4	463.6
57.5°	4063.4	2841.7	758.1	541.8	407.9	373.7	379.0	399.4	424.0	437.9	445.4
60°	4374.9	2820.3	819.1	549.3	369.4	334.1	343.7	373.7	395.1	406.9	414.4
62.5°	4476.7	2686.4	834.1	494.7	319.1	296.6	320.1	351.2	360.8	373.7	379.0
65°	4393.1	2496.9	724.9	401.5	280.5	268.7	303.0	326.6	339.4	345.8	346.9
66°	4294.6	2383.4	666.0	365.1	266.6	260.2	296.6	315.9	328.7	327.6	328.7
67.5°	4078.3	2145.7	570.7	313.7	246.3	247.3	285.9	298.7	303.0	299.8	299.8
70°	3342.8	1510.8	409.0	237.7	216.3	231.3	257.0	260.2	269.8	265.5	265.5
72.5°	2061.1	742.0	274.1	182.0	192.7	216.3	215.2	225.9	248.4	254.8	259.1
75°	1012.9	300.9	181.0	154.2	172.4	181.0	178.8	205.6	237.7	265.5	275.2
77.5°	384.4	149.9	126.3	134.9	139.2	136.0	142.4	186.3	237.7	288.0	297.7
80°	118.8	103.9	99.6	111.4	104.9	99.6	107.1	154.2	201.3	218.4	218.4
82.5°	71.7	81.4	77.1	76.0	70.7	71.7	77.1	110.3	155.3	162.7	162.7
85°	50.3	53.5	43.9	41.8	40.7	39.6	39.6	64.2	92.1	91.0	94.2
87.5°	19.3	21.4	16.1	16.1	15.0	10.7	8.6	10.7	10.7	7.5	5.4
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)