

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: P1210053

Luminaire Tested: **ARCH1-60-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210053
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: ARCH1-60-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7580 lumens
Efficiency: N/A
Efficacy: 126.3 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

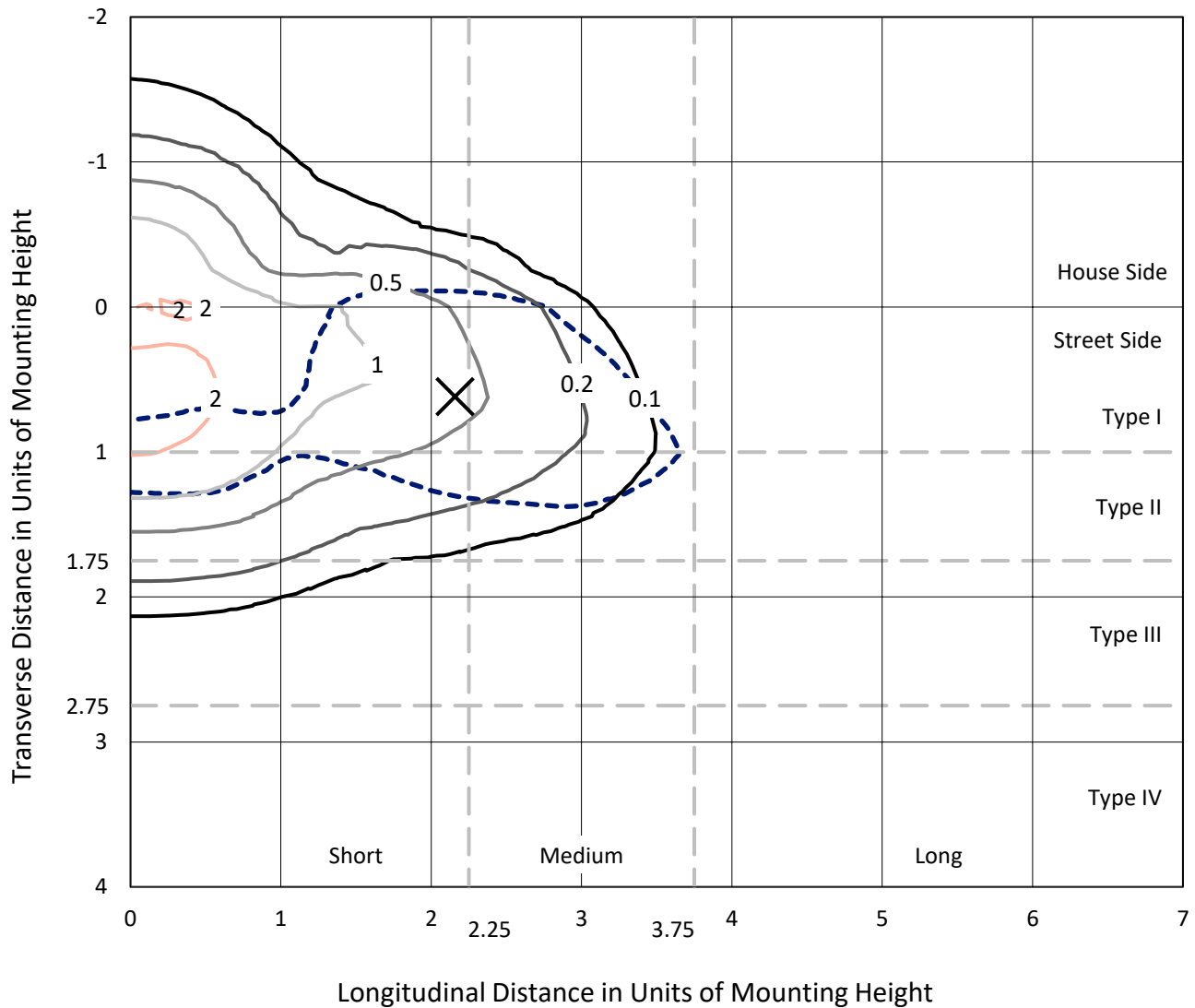
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

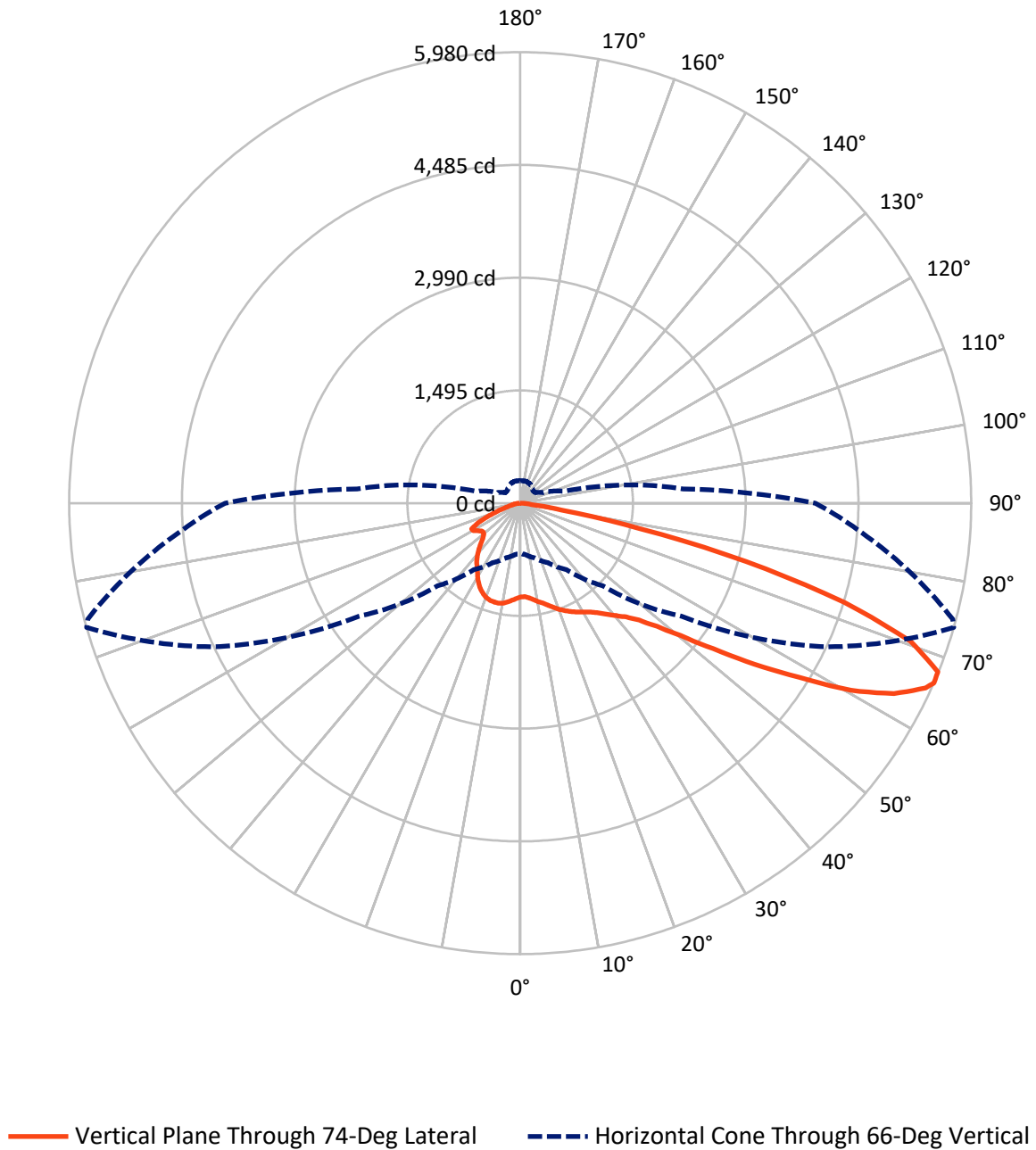
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	1845.9	0.0	1845.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	5734.1	0.0	5734.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	7580.0	0.0	7580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	1.6
10°-20°	364.5	4.8
20°-30°	684.0	9.0
30°-40°	1052.2	13.9
40°-50°	1415.3	18.7
50°-60°	1673.7	22.1
60°-70°	1548.3	20.4
70°-80°	651.4	8.6
80°-90°	72.1	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°	7580.0	100.0
0°-180°	7580.0	100.0

Coefficient of Utilization



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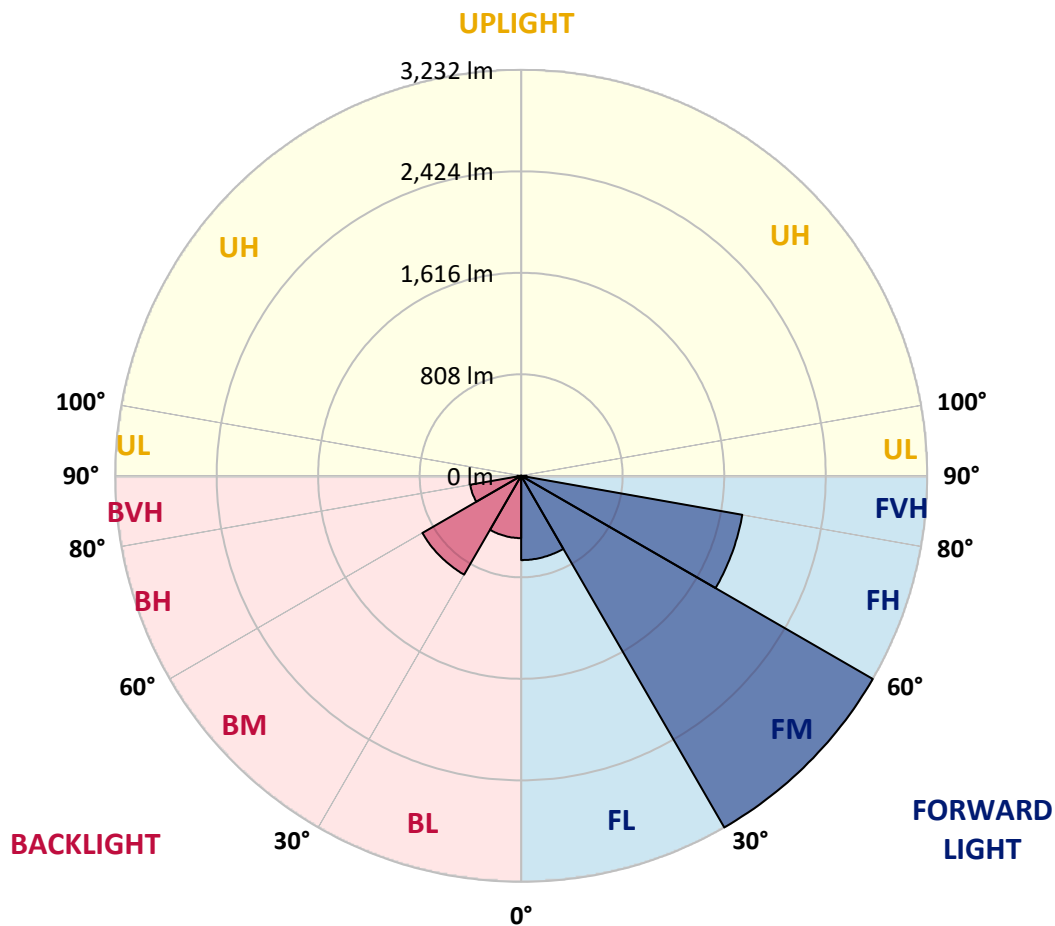
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	670.9	8.9			
FM	(30°-60°)	3232.4	42.6			
FH	(60°-80°)	1787.6	23.6			G1/1800
FVH	(80°-90°)	43.1	0.6			G1/100
BL	(0°-30°)	496.1	6.5	B1/500		
BM	(30°-60°)	908.8	12.0	B1/1000		
BH	(60°-80°)	412.1	5.4	B1/500		G1/500
BVH	(80°-90°)	29.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6
2.5°	1238.7	1236.8	1240.7	1246.5	1249.4	1244.6	1242.6	1241.6	1241.6	1238.7	1243.6
5°	1180.2	1179.2	1188.0	1198.7	1219.2	1233.8	1253.3	1265.0	1261.1	1255.3	1259.2
7.5°	1104.1	1102.2	1112.9	1133.4	1161.7	1193.8	1241.6	1278.7	1293.3	1291.4	1290.4
10°	1133.4	1131.4	1130.4	1124.6	1134.3	1165.6	1215.3	1280.7	1330.4	1331.4	1332.3
12.5°	1234.8	1239.7	1234.8	1216.3	1194.8	1183.1	1212.4	1285.5	1361.6	1367.5	1391.8
15°	1373.3	1368.4	1358.7	1337.2	1304.1	1268.9	1247.5	1308.0	1406.5	1411.4	1465.0
17.5°	1495.2	1499.1	1493.3	1472.8	1433.8	1387.9	1322.6	1347.0	1454.3	1467.9	1543.0
20°	1627.9	1643.5	1635.7	1610.3	1578.1	1509.9	1427.9	1403.5	1506.9	1516.7	1624.0
22.5°	1781.0	1797.6	1783.0	1758.6	1732.2	1648.4	1543.0	1472.8	1550.8	1571.3	1702.0
25°	1964.4	1980.0	1966.3	1928.3	1895.1	1792.7	1666.9	1550.8	1593.7	1616.2	1765.4
27.5°	2109.7	2121.4	2134.1	2111.7	2060.9	1954.6	1795.6	1631.8	1636.7	1660.1	1823.9
30°	2239.4	2268.7	2279.4	2282.4	2239.4	2120.4	1927.3	1715.7	1673.7	1698.1	1882.5
32.5°	2417.0	2460.8	2443.3	2460.8	2435.5	2276.5	2063.9	1802.5	1721.5	1744.0	1938.0
35°	2676.4	2711.5	2665.7	2652.0	2611.1	2434.5	2195.5	1892.2	1784.9	1809.3	1990.7
37.5°	2955.4	2995.3	2929.0	2874.4	2796.4	2590.6	2308.7	2010.2	1872.7	1892.2	2039.5
40°	3199.2	3232.4	3174.8	3102.6	2971.9	2728.1	2406.2	2093.1	1960.5	1984.9	2096.1
42.5°	3424.5	3446.0	3381.6	3312.3	3137.7	2852.0	2511.6	2180.9	2062.9	2086.3	2141.9
45°	3652.7	3669.3	3579.6	3481.1	3276.2	2965.1	2627.6	2303.8	2213.1	2244.3	2216.0
47.5°	3693.7	3698.6	3683.0	3616.7	3385.5	3073.4	2771.0	2468.6	2442.3	2476.4	2343.8
50°	3409.9	3453.8	3550.3	3615.7	3429.4	3164.1	2914.4	2704.7	2758.3	2802.2	2609.1
52.5°	2858.8	2900.7	3124.1	3371.8	3324.0	3184.6	3068.5	3004.1	3204.1	3256.7	2970.0
55°	2277.5	2314.5	2550.6	2907.6	2983.6	3090.9	3233.3	3386.5	3772.7	3807.8	3366.0
57.5°	1875.6	1896.1	2064.8	2408.2	2530.1	2791.5	3322.1	3841.0	4351.1	4404.7	3710.3
60°	1538.1	1560.6	1686.4	1969.3	2131.2	2363.3	3251.9	4289.7	5041.7	5041.7	4152.1
62.5°	1157.8	1177.3	1294.3	1515.7	1787.8	2000.5	3027.5	4587.1	5562.5	5539.1	4472.0
65°	794.9	810.5	895.4	1042.7	1287.5	1704.9	2721.3	4591.0	5907.8	5876.6	4608.6
66°	667.1	680.8	753.0	872.0	1077.8	1546.9	2613.0	4508.1	5980.0	5936.1	4551.0
67.5°	526.7	536.5	584.2	654.5	790.0	1252.4	2442.3	4273.1	5973.1	5946.8	4404.7
70°	376.5	383.3	418.4	433.1	467.2	724.7	1940.0	3742.5	5494.2	5502.0	3829.3
72.5°	291.6	302.4	323.8	326.7	318.9	385.3	1177.3	3122.1	4494.5	4491.6	2842.2
75°	235.1	240.9	251.6	257.5	255.5	248.7	498.4	2329.2	3093.9	3129.9	1591.8
77.5°	185.3	184.3	194.1	201.9	207.8	195.1	228.2	1365.5	1622.0	1576.2	597.9
80°	136.6	136.6	150.2	153.1	161.9	163.9	152.2	526.7	556.9	506.2	155.1
82.5°	89.7	89.7	104.4	106.3	115.1	127.8	110.2	158.0	154.1	146.3	70.2
85°	48.8	46.8	51.7	58.5	63.4	75.1	66.3	79.0	81.0	80.0	46.8
87.5°	9.8	8.8	13.7	15.6	17.6	23.4	21.5	32.2	44.9	43.9	20.5
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°	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6
2.5°	1250.4	1249.4	1260.2	1272.9	1287.5	1296.3	1300.2	1307.0	1302.1	1304.1	1309.9
5°	1268.9	1271.9	1287.5	1304.1	1310.9	1306.0	1295.3	1291.4	1282.6	1280.7	1278.7
7.5°	1296.3	1301.1	1316.7	1320.6	1300.2	1266.0	1241.6	1228.0	1213.4	1209.5	1207.5
10°	1341.1	1344.1	1348.0	1308.0	1257.2	1211.4	1181.2	1168.5	1158.7	1150.9	1152.9
12.5°	1397.7	1395.7	1365.5	1282.6	1210.4	1163.6	1143.1	1135.3	1128.5	1123.6	1122.6
15°	1468.9	1455.2	1368.4	1247.5	1166.5	1127.5	1112.9	1110.0	1102.2	1102.2	1101.2
17.5°	1541.1	1506.0	1366.5	1210.4	1124.6	1103.1	1094.4	1092.4	1090.5	1089.5	1092.4
20°	1613.3	1550.8	1350.9	1164.6	1095.3	1082.7	1080.7	1081.7	1079.7	1082.7	1080.7
22.5°	1676.7	1580.1	1321.6	1115.8	1074.9	1073.9	1069.0	1070.9	1077.8	1078.8	1081.7
25°	1725.4	1590.8	1278.7	1070.9	1060.2	1058.3	1064.1	1071.9	1077.8	1078.8	1083.6
27.5°	1765.4	1585.0	1225.1	1035.8	1034.9	1045.6	1063.1	1066.1	1067.0	1067.0	1063.1
30°	1795.6	1572.3	1156.8	996.8	1001.7	1028.0	1044.6	1044.6	1036.8	1034.9	1040.7
32.5°	1802.5	1555.7	1082.7	956.8	964.6	995.8	1016.3	1009.5	1000.7	1000.7	1004.6
35°	1808.3	1533.3	1023.2	902.2	913.9	951.0	970.5	956.8	947.1	944.2	943.2
37.5°	1806.4	1524.5	969.5	833.0	848.6	884.7	897.3	884.7	870.0	863.2	872.0
40°	1808.3	1518.6	902.2	756.9	772.5	793.9	810.5	800.8	787.1	769.6	778.3
42.5°	1820.0	1526.4	828.1	682.8	682.8	694.5	722.7	715.9	682.8	675.9	683.7
45°	1882.5	1568.4	754.0	608.6	597.9	605.7	635.0	605.7	585.2	585.2	592.0
47.5°	2033.6	1646.4	688.6	543.3	517.9	533.5	541.3	514.0	498.4	494.5	501.3
50°	2341.8	1802.5	649.6	489.6	458.4	470.1	465.2	464.3	448.7	450.6	454.5
52.5°	2810.0	2106.8	637.9	463.3	424.3	427.2	422.3	424.3	421.4	431.1	434.0
55°	3320.1	2427.7	652.5	467.2	400.9	380.4	382.3	392.1	403.8	419.4	422.3
57.5°	3701.5	2588.6	690.6	493.5	371.6	340.4	345.3	363.8	386.2	398.9	405.8
60°	3985.3	2569.1	746.2	500.4	336.5	304.3	313.1	340.4	359.9	370.6	377.5
62.5°	4078.0	2447.2	759.8	450.6	290.7	270.2	291.6	319.9	328.7	340.4	345.3
65°	4001.9	2274.5	660.3	365.8	255.5	244.8	276.0	297.5	309.2	315.0	316.0
66°	3912.2	2171.2	606.7	332.6	242.9	237.0	270.2	287.7	299.4	298.5	299.4
67.5°	3715.2	1954.6	519.9	285.8	224.3	225.3	260.4	272.1	276.0	273.1	273.1
70°	3045.1	1376.2	372.6	216.5	197.0	210.7	234.1	237.0	245.8	241.9	241.9
72.5°	1877.6	675.9	249.7	165.8	175.6	197.0	196.0	205.8	226.3	232.1	236.0
75°	922.7	274.1	164.8	140.5	157.0	164.8	162.9	187.3	216.5	241.9	250.7
77.5°	350.2	136.6	115.1	122.9	126.8	123.9	129.7	169.7	216.5	262.4	271.2
80°	108.3	94.6	90.7	101.4	95.6	90.7	97.5	140.5	183.4	199.0	199.0
82.5°	65.3	74.1	70.2	69.3	64.4	65.3	70.2	100.5	141.4	148.3	148.3
85°	45.8	48.8	40.0	38.0	37.1	36.1	36.1	58.5	83.9	82.9	85.8
87.5°	17.6	19.5	14.6	14.6	13.7	9.8	7.8	9.8	9.8	6.8	4.9
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)