

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: P1210013

Luminaire Tested: **ARCH1-50-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210013
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: ARCH1-50-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6660 lumens
Efficiency: N/A
Efficacy: 125.7 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): 53
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

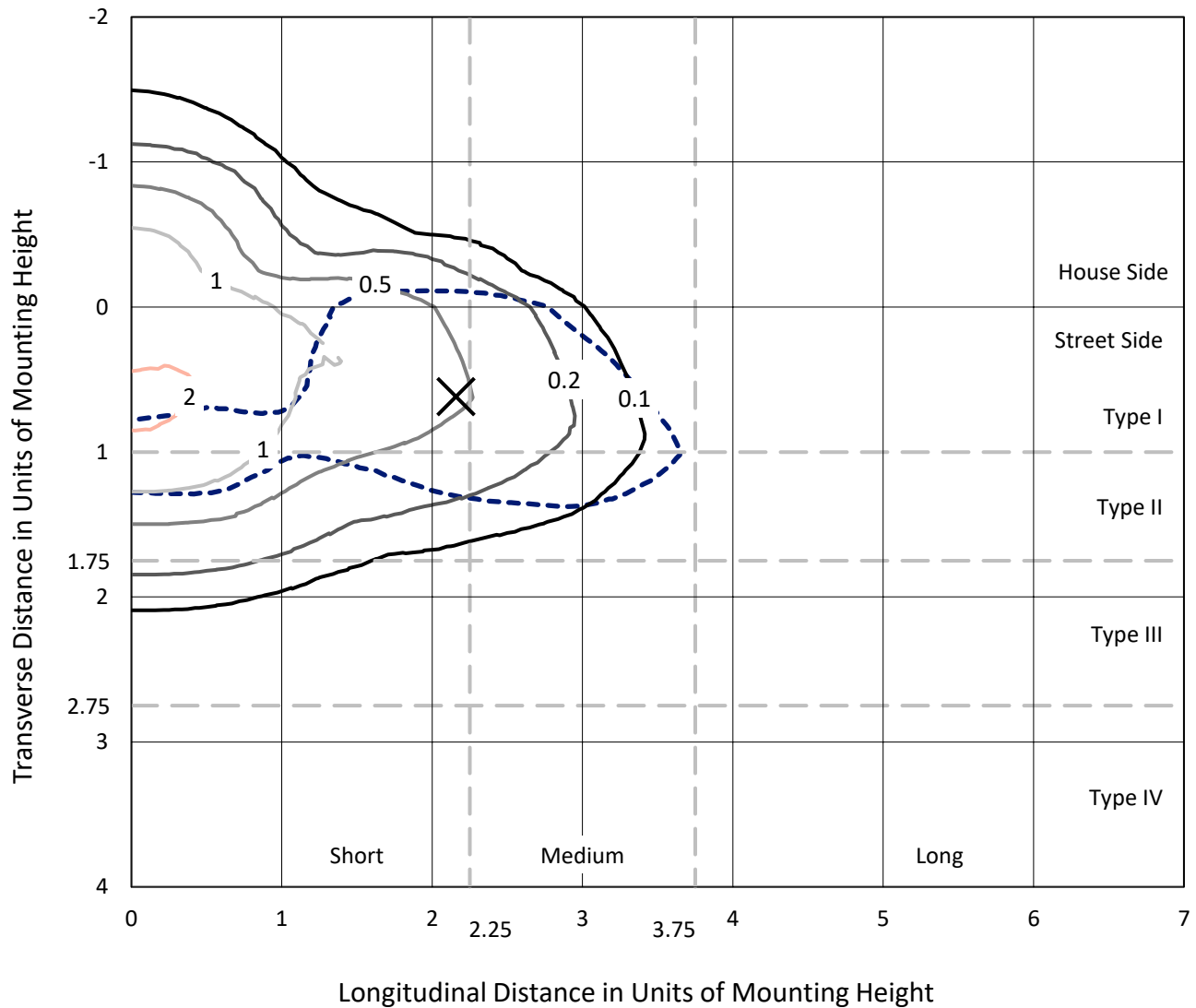


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Iso-Footcandle Lines of Horizontal Illumination

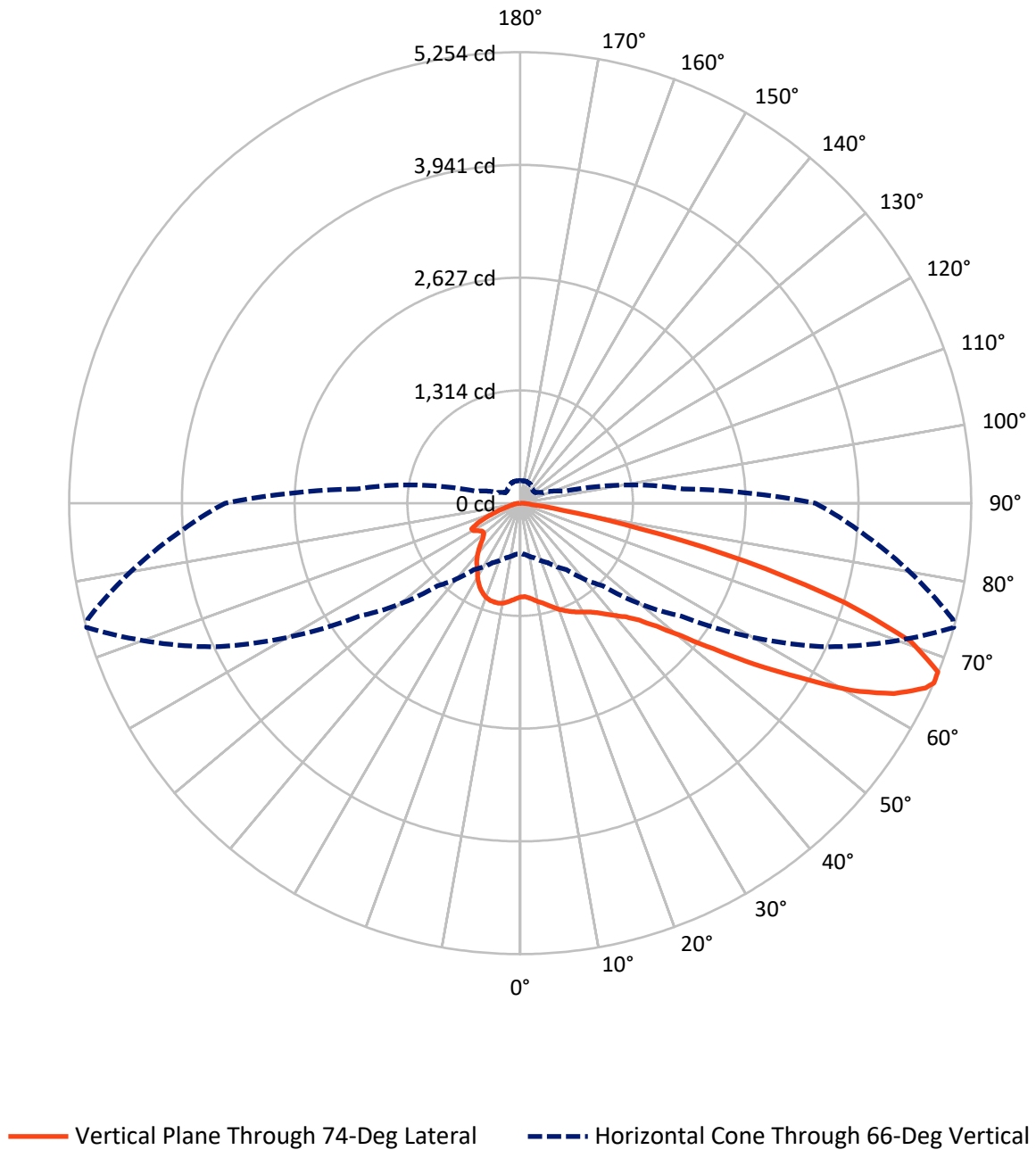
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	1621.9	0.0	1621.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	5038.1	0.0	5038.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	6660.0	0.0	6660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	1.6
10°-20°	320.3	4.8
20°-30°	601.0	9.0
30°-40°	924.5	13.9
40°-50°	1243.5	18.7
50°-60°	1470.6	22.1
60°-70°	1360.4	20.4
70°-80°	572.3	8.6
80°-90°	63.3	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°	6660.0	100.0
0°-180°	6660.0	100.0

Coefficient of Utilization



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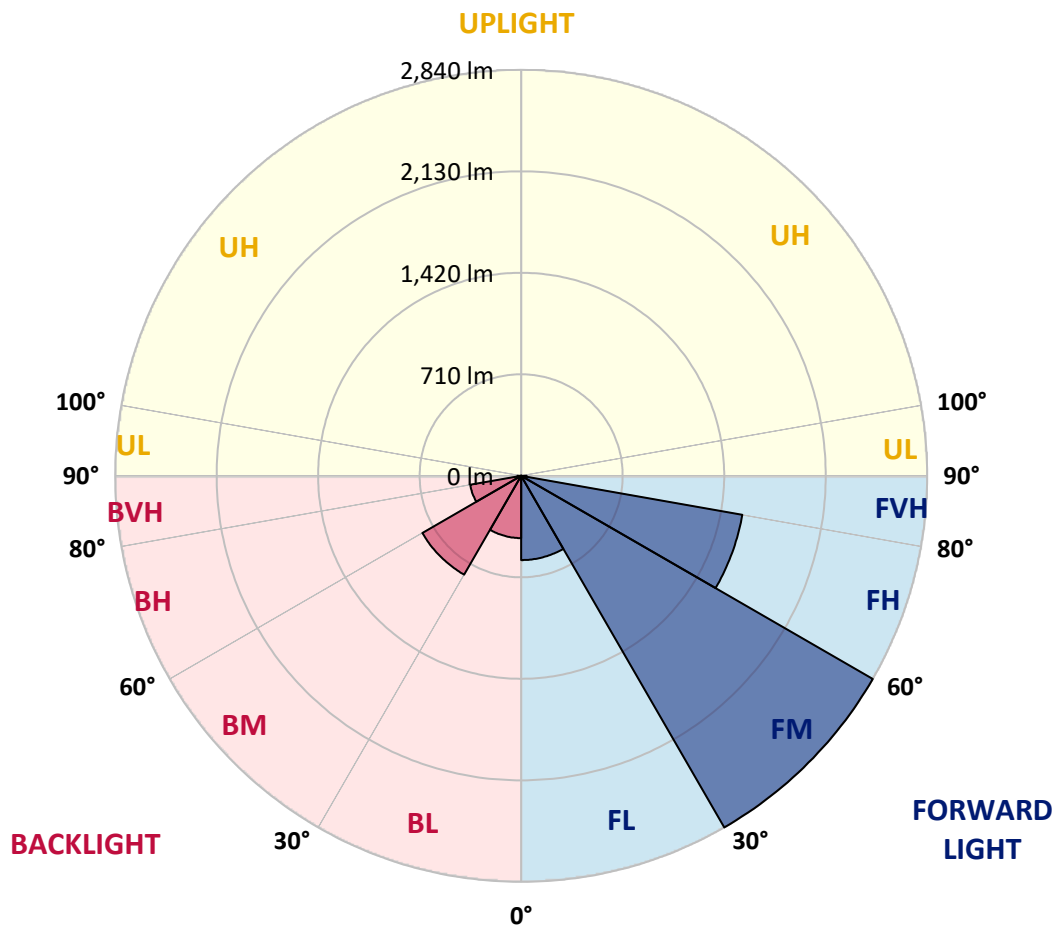
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	589.5	8.9			
FM	(30°-60°)	2840.1	42.6			
FH	(60°-80°)	1570.6	23.6			G1/1800
FVH	(80°-90°)	37.9	0.6			G1/100
BL	(0°-30°)	435.9	6.5	B1/500		
BM	(30°-60°)	798.5	12.0	B1/1000		
BH	(60°-80°)	362.1	5.4	B1/500		G1/500
BVH	(80°-90°)	25.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8
2.5°	1088.4	1086.7	1090.1	1095.2	1097.8	1093.5	1091.8	1090.9	1090.9	1088.4	1092.7
5°	1036.9	1036.1	1043.8	1053.2	1071.2	1084.1	1101.2	1111.5	1108.1	1102.9	1106.4
7.5°	970.1	968.4	977.8	995.8	1020.7	1048.9	1090.9	1123.5	1136.4	1134.6	1133.8
10°	995.8	994.1	993.2	988.1	996.7	1024.1	1067.8	1125.2	1168.9	1169.8	1170.6
12.5°	1084.9	1089.2	1084.9	1068.7	1049.8	1039.5	1065.2	1129.5	1196.3	1201.5	1222.9
15°	1206.6	1202.3	1193.8	1174.9	1145.8	1114.9	1096.1	1149.2	1235.8	1240.1	1287.2
17.5°	1313.8	1317.2	1312.0	1294.0	1259.8	1219.5	1162.1	1183.5	1277.8	1289.8	1355.7
20°	1430.3	1444.0	1437.2	1414.9	1386.6	1326.6	1254.6	1233.2	1324.0	1332.6	1426.9
22.5°	1564.8	1579.4	1566.6	1545.1	1522.0	1448.3	1355.7	1294.0	1362.6	1380.6	1495.4
25°	1726.0	1739.7	1727.7	1694.3	1665.1	1575.1	1464.6	1362.6	1400.3	1420.0	1551.1
27.5°	1853.7	1863.9	1875.1	1855.4	1810.8	1717.4	1577.7	1433.7	1438.0	1458.6	1602.6
30°	1967.6	1993.3	2002.8	2005.3	1967.6	1863.1	1693.4	1507.4	1470.6	1492.0	1654.0
32.5°	2123.6	2162.2	2146.7	2162.2	2139.9	2000.2	1813.4	1583.7	1512.6	1532.3	1702.8
35°	2351.6	2382.4	2342.1	2330.1	2294.1	2139.0	1929.1	1662.5	1568.3	1589.7	1749.1
37.5°	2596.7	2631.8	2573.5	2525.5	2457.0	2276.1	2028.5	1766.2	1645.4	1662.5	1791.9
40°	2810.9	2840.0	2789.5	2726.1	2611.2	2397.0	2114.2	1839.1	1722.5	1744.0	1841.7
42.5°	3008.9	3027.7	2971.2	2910.3	2756.9	2505.8	2206.7	1916.2	1812.5	1833.1	1881.9
45°	3209.4	3224.0	3145.1	3058.6	2878.6	2605.2	2308.7	2024.2	1944.5	1971.9	1947.1
47.5°	3245.4	3249.7	3236.0	3177.7	2974.6	2700.4	2434.7	2169.0	2145.9	2175.9	2059.3
50°	2996.0	3034.6	3119.4	3176.8	3013.1	2780.1	2560.7	2376.4	2423.5	2462.1	2292.4
52.5°	2511.8	2548.7	2744.9	2962.6	2920.6	2798.0	2696.1	2639.5	2815.2	2861.5	2609.5
55°	2001.1	2033.6	2241.0	2554.7	2621.5	2715.8	2840.9	2975.4	3314.8	3345.7	2957.4
57.5°	1648.0	1666.0	1814.2	2115.9	2223.0	2452.7	2918.9	3374.8	3823.0	3870.1	3260.0
60°	1351.5	1371.2	1481.7	1730.2	1872.5	2076.5	2857.2	3769.0	4429.7	4429.7	3648.2
62.5°	1017.2	1034.4	1137.2	1331.8	1570.8	1757.7	2660.1	4030.4	4887.4	4866.8	3929.3
65°	698.4	712.2	786.7	916.1	1131.2	1498.0	2391.0	4033.8	5190.7	5163.3	4049.2
66°	586.2	598.2	661.6	766.1	947.0	1359.2	2295.9	3961.0	5254.2	5215.6	3998.7
67.5°	462.8	471.3	513.3	575.0	694.2	1100.4	2145.9	3754.4	5248.2	5225.0	3870.1
70°	330.8	336.8	367.6	380.5	410.5	636.7	1704.5	3288.2	4827.4	4834.2	3364.5
72.5°	256.2	265.7	284.5	287.1	280.2	338.5	1034.4	2743.2	3949.0	3946.4	2497.2
75°	206.5	211.7	221.1	226.2	224.5	218.5	437.9	2046.5	2718.3	2750.1	1398.6
77.5°	162.8	162.0	170.5	177.4	182.5	171.4	200.5	1199.8	1425.2	1384.9	525.3
80°	120.0	120.0	132.0	134.5	142.3	144.0	133.7	462.8	489.3	444.8	136.3
82.5°	78.8	78.8	91.7	93.4	101.1	112.3	96.8	138.8	135.4	128.5	61.7
85°	42.8	41.1	45.4	51.4	55.7	66.0	58.3	69.4	71.1	70.3	41.1
87.5°	8.6	7.7	12.0	13.7	15.4	20.6	18.9	28.3	39.4	38.6	18.0
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°	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8
2.5°	1098.7	1097.8	1107.2	1118.4	1131.2	1138.9	1142.4	1148.4	1144.1	1145.8	1150.9
5°	1114.9	1117.5	1131.2	1145.8	1151.8	1147.5	1138.1	1134.6	1126.9	1125.2	1123.5
7.5°	1138.9	1143.2	1156.9	1160.4	1142.4	1112.4	1090.9	1078.9	1066.1	1062.7	1060.9
10°	1178.4	1180.9	1184.3	1149.2	1104.7	1064.4	1037.8	1026.7	1018.1	1011.2	1013.0
12.5°	1228.1	1226.3	1199.8	1126.9	1063.5	1022.4	1004.4	997.5	991.5	987.2	986.4
15°	1290.6	1278.6	1202.3	1096.1	1025.0	990.7	977.8	975.2	968.4	968.4	967.5
17.5°	1354.0	1323.2	1200.6	1063.5	988.1	969.2	961.5	959.8	958.1	957.2	959.8
20°	1417.4	1362.6	1186.9	1023.2	962.4	951.3	949.5	950.4	948.7	951.3	949.5
22.5°	1473.2	1388.3	1161.2	980.4	944.4	943.5	939.3	941.0	947.0	947.8	950.4
25°	1516.0	1397.7	1123.5	941.0	931.5	929.8	935.0	941.8	947.0	947.8	952.1
27.5°	1551.1	1392.6	1076.4	910.1	909.3	918.7	934.1	936.7	937.5	937.5	934.1
30°	1577.7	1381.5	1016.4	875.8	880.1	903.3	917.8	917.8	911.0	909.3	914.4
32.5°	1583.7	1366.9	951.3	840.7	847.6	875.0	893.0	887.0	879.3	879.3	882.7
35°	1588.8	1347.2	899.0	792.7	803.0	835.6	852.7	840.7	832.1	829.6	828.7
37.5°	1587.1	1339.5	851.8	731.9	745.6	777.3	788.4	777.3	764.4	758.4	766.1
40°	1588.8	1334.3	792.7	665.0	678.7	697.6	712.2	703.6	691.6	676.2	683.9
42.5°	1599.1	1341.2	727.6	599.9	599.9	610.2	635.0	629.0	599.9	593.9	600.7
45°	1654.0	1378.0	662.4	534.8	525.3	532.2	557.9	532.2	514.2	514.2	520.2
47.5°	1786.8	1446.6	605.0	477.3	455.1	468.8	475.6	451.6	437.9	434.5	440.5
50°	2057.6	1583.7	570.8	430.2	402.8	413.1	408.8	407.9	394.2	395.9	399.4
52.5°	2469.0	1851.1	560.5	407.1	372.8	375.4	371.1	372.8	370.2	378.8	381.4
55°	2917.2	2133.0	573.3	410.5	352.2	334.2	335.9	344.5	354.8	368.5	371.1
57.5°	3252.2	2274.4	606.7	433.6	326.5	299.1	303.4	319.7	339.4	350.5	356.5
60°	3501.6	2257.3	655.6	439.6	295.7	267.4	275.1	299.1	316.2	325.7	331.7
62.5°	3583.0	2150.2	667.6	395.9	255.4	237.4	256.2	281.1	288.8	299.1	303.4
65°	3516.2	1998.5	580.2	321.4	224.5	215.1	242.5	261.4	271.7	276.8	277.7
66°	3437.4	1907.6	533.0	292.2	213.4	208.2	237.4	252.8	263.1	262.2	263.1
67.5°	3264.2	1717.4	456.8	251.1	197.1	198.0	228.8	239.1	242.5	240.0	240.0
70°	2675.5	1209.2	327.4	190.3	173.1	185.1	205.7	208.2	216.0	212.5	212.5
72.5°	1649.7	593.9	219.4	145.7	154.3	173.1	172.3	180.8	198.8	204.0	207.4
75°	810.7	240.8	144.8	123.4	138.0	144.8	143.1	164.5	190.3	212.5	220.2
77.5°	307.7	120.0	101.1	108.0	111.4	108.8	114.0	149.1	190.3	230.5	238.2
80°	95.1	83.1	79.7	89.1	84.0	79.7	85.7	123.4	161.1	174.8	174.8
82.5°	57.4	65.1	61.7	60.8	56.6	57.4	61.7	88.3	124.3	130.3	130.3
85°	40.3	42.8	35.1	33.4	32.6	31.7	31.7	51.4	73.7	72.8	75.4
87.5°	15.4	17.1	12.9	12.9	12.0	8.6	6.9	8.6	8.6	6.0	4.3
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)