

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: P1210009

Luminaire Tested: **ARCH1-50-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210009
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: ARCH1-50-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6427 lumens
Efficiency: N/A
Efficacy: 121.3 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): 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



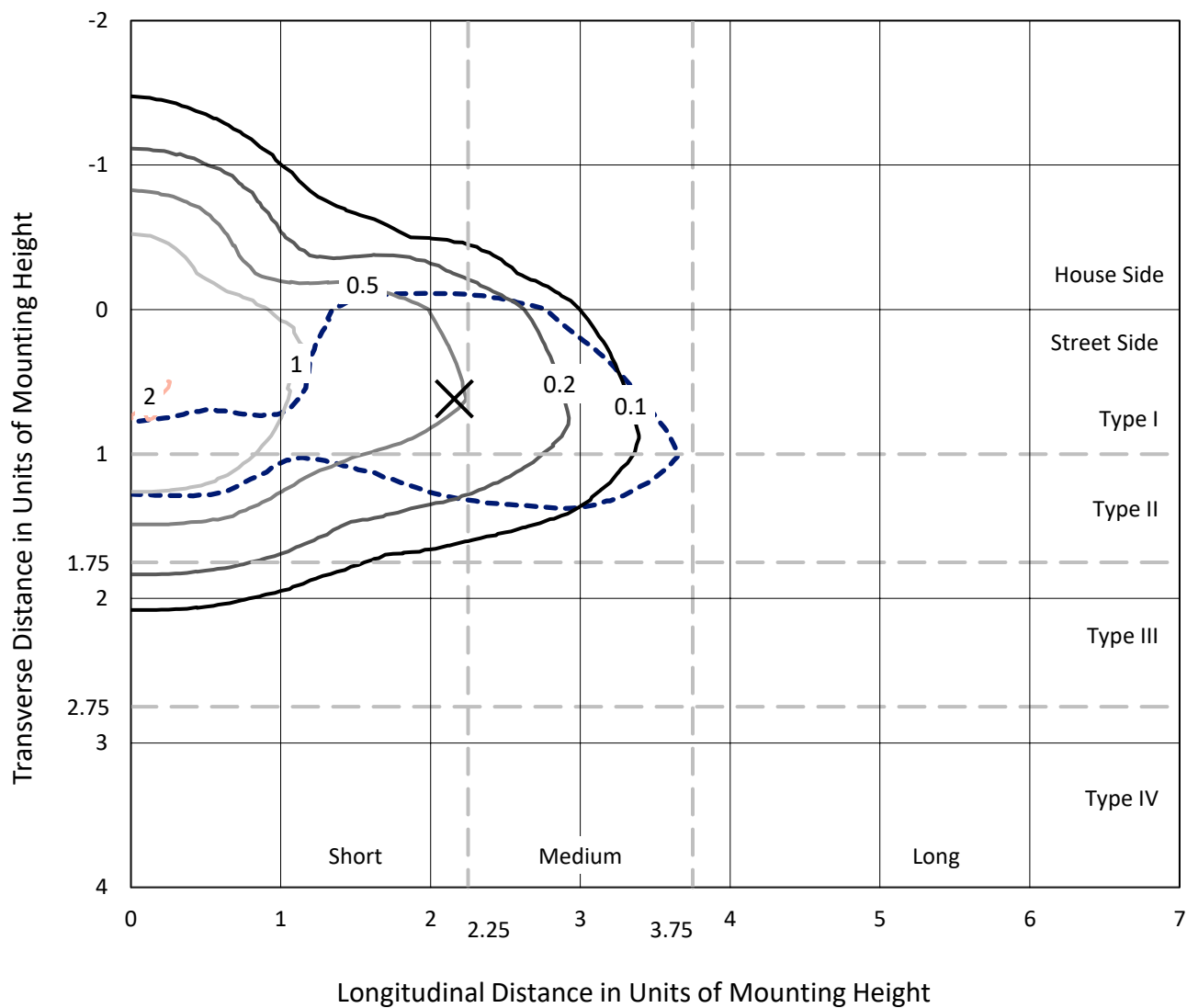
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

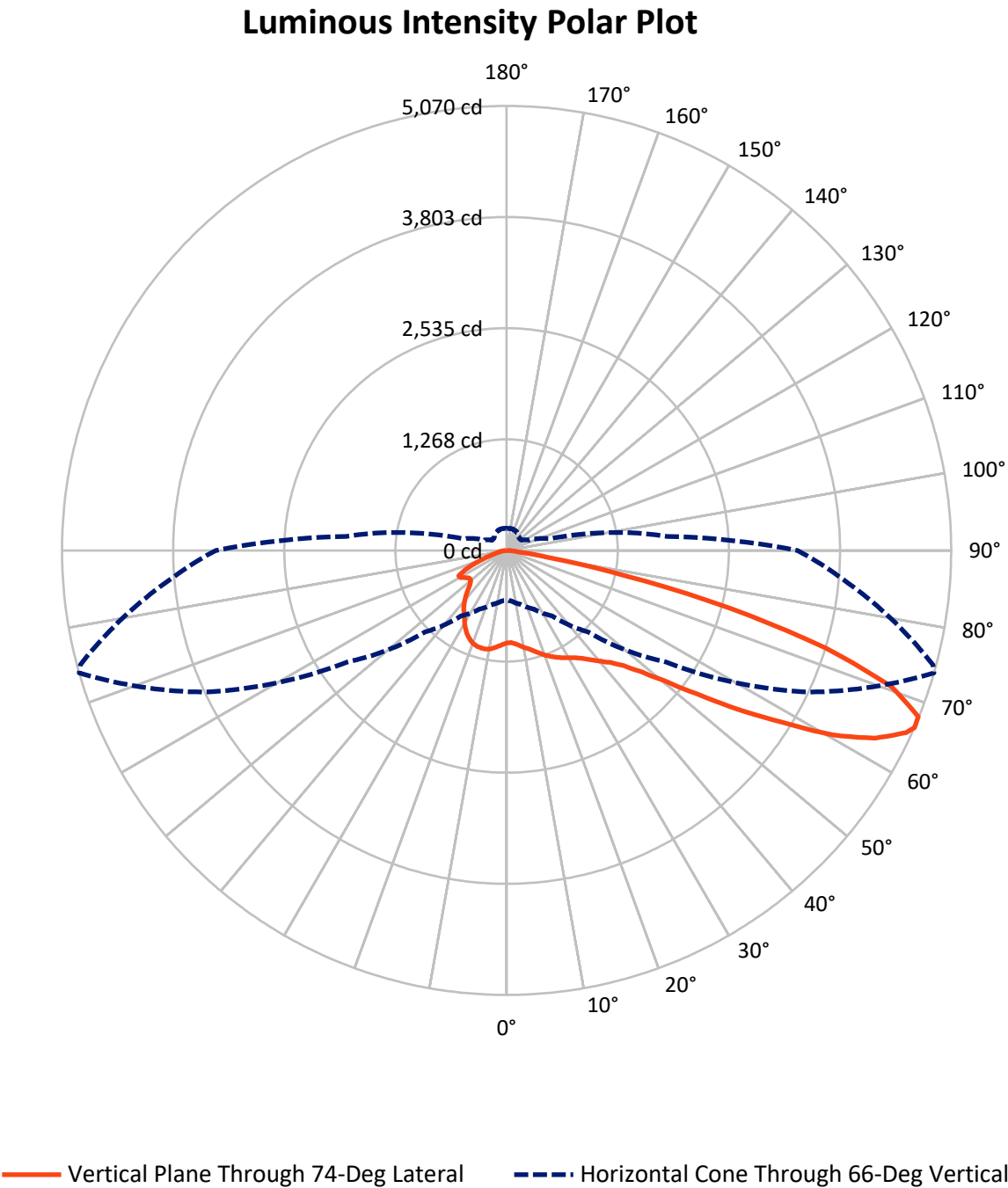
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc

Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1565.2	0.0	1565.2
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	4861.9	0.0	4861.9
	% Fixture	75.6	0.0	75.6
Total	Lumens	6427.0	0.0	6427.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	1.6
10°-20°	309.1	4.8
20°-30°	580.0	9.0
30°-40°	892.1	13.9
40°-50°	1200.0	18.7
50°-60°	1419.1	22.1
60°-70°	1312.8	20.4
70°-80°	552.3	8.6
80°-90°	61.1	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°	6427.0	100.0
0°-180°	6427.0	100.0

Coefficient of Utilization



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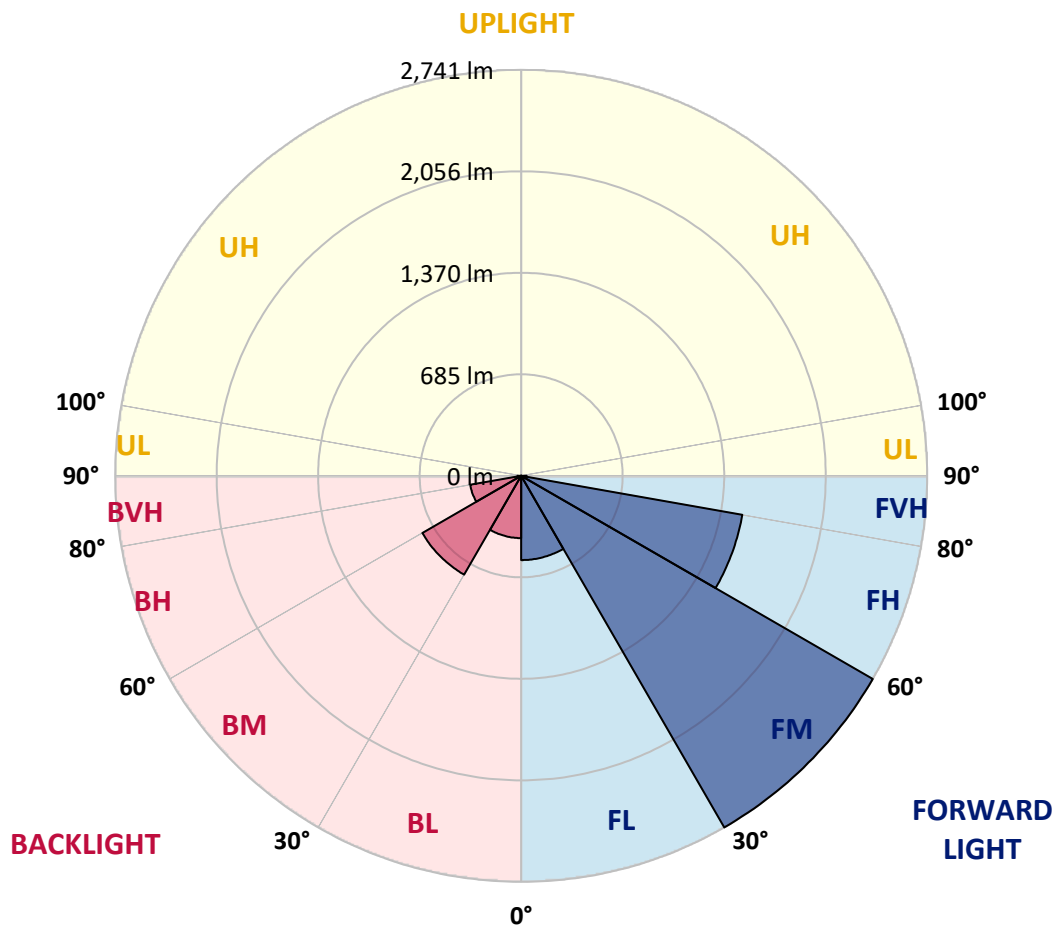
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	568.9	8.9			
FM	(30°-60°)	2740.8	42.6			
FH	(60°-80°)	1515.7	23.6			G1/1800
FVH	(80°-90°)	36.6	0.6			G1/100
BL	(0°-30°)	420.7	6.5	B1/500		
BM	(30°-60°)	770.5	12.0	B1/1000		
BH	(60°-80°)	349.4	5.4	B1/500		G1/500
BVH	(80°-90°)	24.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6
2.5°	1050.3	1048.6	1051.9	1056.9	1059.4	1055.3	1053.6	1052.8	1052.8	1050.3	1054.4
5°	1000.7	999.8	1007.3	1016.4	1033.8	1046.2	1062.7	1072.6	1069.3	1064.3	1067.7
7.5°	936.2	934.5	943.6	961.0	985.0	1012.2	1052.8	1084.2	1096.6	1094.9	1094.1
10°	961.0	959.3	958.5	953.5	961.8	988.3	1030.4	1085.9	1128.0	1128.9	1129.7
12.5°	1047.0	1051.1	1047.0	1031.3	1013.1	1003.2	1028.0	1090.0	1154.5	1159.5	1180.1
15°	1164.4	1160.3	1152.0	1133.8	1105.7	1075.9	1057.7	1109.0	1192.5	1196.7	1242.2
17.5°	1267.8	1271.1	1266.1	1248.8	1215.7	1176.8	1121.4	1142.1	1233.1	1244.6	1308.3
20°	1380.3	1393.5	1386.9	1365.4	1338.1	1280.2	1210.7	1190.1	1277.7	1286.0	1377.0
22.5°	1510.1	1524.2	1511.8	1491.1	1468.8	1397.6	1308.3	1248.8	1314.9	1332.3	1443.1
25°	1665.6	1678.8	1667.2	1635.0	1606.9	1520.0	1413.3	1314.9	1351.3	1370.3	1496.9
27.5°	1788.8	1798.7	1809.5	1790.5	1747.5	1657.3	1522.5	1383.6	1387.7	1407.6	1546.5
30°	1898.8	1923.6	1932.7	1935.2	1898.8	1797.9	1634.2	1454.7	1419.1	1439.8	1596.1
32.5°	2049.3	2086.5	2071.6	2086.5	2065.0	1930.2	1749.9	1528.3	1459.7	1478.7	1643.3
35°	2269.3	2299.1	2260.2	2248.6	2213.9	2064.2	1861.6	1604.4	1513.4	1534.1	1687.9
37.5°	2505.8	2539.7	2483.5	2437.2	2371.0	2196.5	1957.5	1704.4	1587.8	1604.4	1729.3
40°	2712.6	2740.7	2691.9	2630.7	2519.9	2313.1	2040.2	1774.7	1662.3	1682.9	1777.2
42.5°	2903.6	2921.8	2867.2	2808.5	2660.5	2418.2	2129.5	1849.2	1749.1	1769.0	1816.1
45°	3097.1	3111.2	3035.1	2951.6	2777.9	2514.1	2227.9	1953.4	1876.5	1902.9	1878.9
47.5°	3131.9	3136.0	3122.8	3066.5	2870.5	2605.9	2349.5	2093.1	2070.8	2099.8	1987.3
50°	2891.2	2928.4	3010.3	3065.7	2907.7	2682.8	2471.1	2293.3	2338.8	2376.0	2212.2
52.5°	2423.9	2459.5	2648.9	2858.9	2818.4	2700.2	2601.7	2547.2	2716.7	2761.4	2518.2
55°	1931.0	1962.5	2162.6	2465.3	2529.8	2620.8	2741.5	2871.3	3198.8	3228.6	2854.0
57.5°	1590.3	1607.7	1750.8	2041.9	2145.2	2366.9	2816.8	3256.7	3689.3	3734.7	3145.9
60°	1304.2	1323.2	1429.9	1669.7	1807.0	2003.8	2757.2	3637.1	4274.8	4274.8	3520.5
62.5°	981.6	998.2	1097.4	1285.2	1515.9	1696.2	2567.0	3889.4	4716.4	4696.5	3791.8
65°	674.0	687.2	759.2	884.1	1091.6	1445.6	2307.3	3892.7	5009.1	4982.7	3907.6
66°	565.7	577.2	638.4	739.3	913.8	1311.6	2215.5	3822.4	5070.3	5033.1	3858.8
67.5°	446.6	454.9	495.4	554.9	669.9	1061.9	2070.8	3623.1	5064.6	5042.2	3734.7
70°	319.2	325.0	354.8	367.2	396.1	614.5	1644.9	3173.2	4658.5	4665.1	3246.8
72.5°	247.3	256.4	274.6	277.0	270.4	326.7	998.2	2647.2	3810.8	3808.3	2409.9
75°	199.3	204.3	213.4	218.3	216.7	210.9	422.6	1974.9	2623.2	2653.8	1349.7
77.5°	157.1	156.3	164.6	171.2	176.2	165.4	193.5	1157.8	1375.3	1336.4	507.0
80°	115.8	115.8	127.4	129.8	137.3	138.9	129.0	446.6	472.2	429.2	131.5
82.5°	76.1	76.1	88.5	90.1	97.6	108.3	93.5	134.0	130.7	124.1	59.5
85°	41.4	39.7	43.8	49.6	53.8	63.7	56.2	67.0	68.6	67.8	39.7
87.5°	8.3	7.4	11.6	13.2	14.9	19.8	18.2	27.3	38.0	37.2	17.4
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°	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6
2.5°	1060.2	1059.4	1068.5	1079.2	1091.6	1099.1	1102.4	1108.2	1104.0	1105.7	1110.7
5°	1075.9	1078.4	1091.6	1105.7	1111.5	1107.4	1098.3	1094.9	1087.5	1085.9	1084.2
7.5°	1099.1	1103.2	1116.5	1119.8	1102.4	1073.4	1052.8	1041.2	1028.8	1025.5	1023.8
10°	1137.1	1139.6	1142.9	1109.0	1066.0	1027.1	1001.5	990.7	982.5	975.9	977.5
12.5°	1185.1	1183.4	1157.8	1087.5	1026.3	986.6	969.2	962.6	956.8	952.7	951.9
15°	1245.5	1233.9	1160.3	1057.7	989.1	956.0	943.6	941.1	934.5	934.5	933.7
17.5°	1306.7	1276.9	1158.6	1026.3	953.5	935.3	927.9	926.2	924.6	923.8	926.2
20°	1367.9	1314.9	1145.4	987.4	928.7	918.0	916.3	917.1	915.5	918.0	916.3
22.5°	1421.6	1339.7	1120.6	946.1	911.4	910.5	906.4	908.0	913.8	914.7	917.1
25°	1463.0	1348.8	1084.2	908.0	898.9	897.3	902.3	908.9	913.8	914.7	918.8
27.5°	1496.9	1343.9	1038.7	878.3	877.4	886.5	901.4	903.9	904.7	904.7	901.4
30°	1522.5	1333.1	980.8	845.2	849.3	871.7	885.7	885.7	879.1	877.4	882.4
32.5°	1528.3	1319.1	918.0	811.3	817.9	844.4	861.7	855.9	848.5	848.5	851.8
35°	1533.3	1300.0	867.5	765.0	774.9	806.3	822.9	811.3	803.0	800.5	799.7
37.5°	1531.6	1292.6	822.0	706.3	719.5	750.1	760.8	750.1	737.7	731.9	739.3
40°	1533.3	1287.6	765.0	641.8	655.0	673.2	687.2	679.0	667.4	652.5	659.9
42.5°	1543.2	1294.3	702.1	578.9	578.9	588.8	612.8	607.0	578.9	573.1	579.7
45°	1596.1	1329.8	639.3	516.0	507.0	513.6	538.4	513.6	496.2	496.2	502.0
47.5°	1724.3	1396.0	583.9	460.6	439.1	452.4	459.0	435.8	422.6	419.3	425.1
50°	1985.6	1528.3	550.8	415.2	388.7	398.6	394.5	393.7	380.4	382.1	385.4
52.5°	2382.6	1786.3	540.9	392.8	359.7	362.2	358.1	359.7	357.3	365.5	368.0
55°	2815.1	2058.4	553.3	396.1	339.9	322.5	324.2	332.5	342.4	355.6	358.1
57.5°	3138.5	2194.9	585.5	418.5	315.1	288.6	292.8	308.5	327.5	338.2	344.0
60°	3379.1	2178.3	632.7	424.3	285.3	258.0	265.5	288.6	305.2	314.3	320.0
62.5°	3457.7	2074.9	644.2	382.1	246.4	229.1	247.3	271.3	278.7	288.6	292.8
65°	3393.2	1928.6	559.9	310.1	216.7	207.6	234.0	252.2	262.2	267.1	267.9
66°	3317.1	1840.9	514.4	282.0	205.9	201.0	229.1	244.0	253.9	253.1	253.9
67.5°	3150.0	1657.3	440.8	242.3	190.2	191.0	220.8	230.7	234.0	231.6	231.6
70°	2581.9	1166.9	315.9	183.6	167.1	178.6	198.5	201.0	208.4	205.1	205.1
72.5°	1592.0	573.1	211.7	140.6	148.9	167.1	166.2	174.5	191.9	196.8	200.1
75°	782.3	232.4	139.8	119.1	133.1	139.8	138.1	158.8	183.6	205.1	212.5
77.5°	296.9	115.8	97.6	104.2	107.5	105.0	110.0	143.9	183.6	222.5	229.9
80°	91.8	80.2	76.9	86.0	81.0	76.9	82.7	119.1	155.5	168.7	168.7
82.5°	55.4	62.9	59.5	58.7	54.6	55.4	59.5	85.2	119.9	125.7	125.7
85°	38.9	41.4	33.9	32.3	31.4	30.6	30.6	49.6	71.1	70.3	72.8
87.5°	14.9	16.5	12.4	12.4	11.6	8.3	6.6	8.3	8.3	5.8	4.1
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)