

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: P1210197

Luminaire Tested: **ARCH2-50-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210197
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: ARCH2-50-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6878 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 54
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

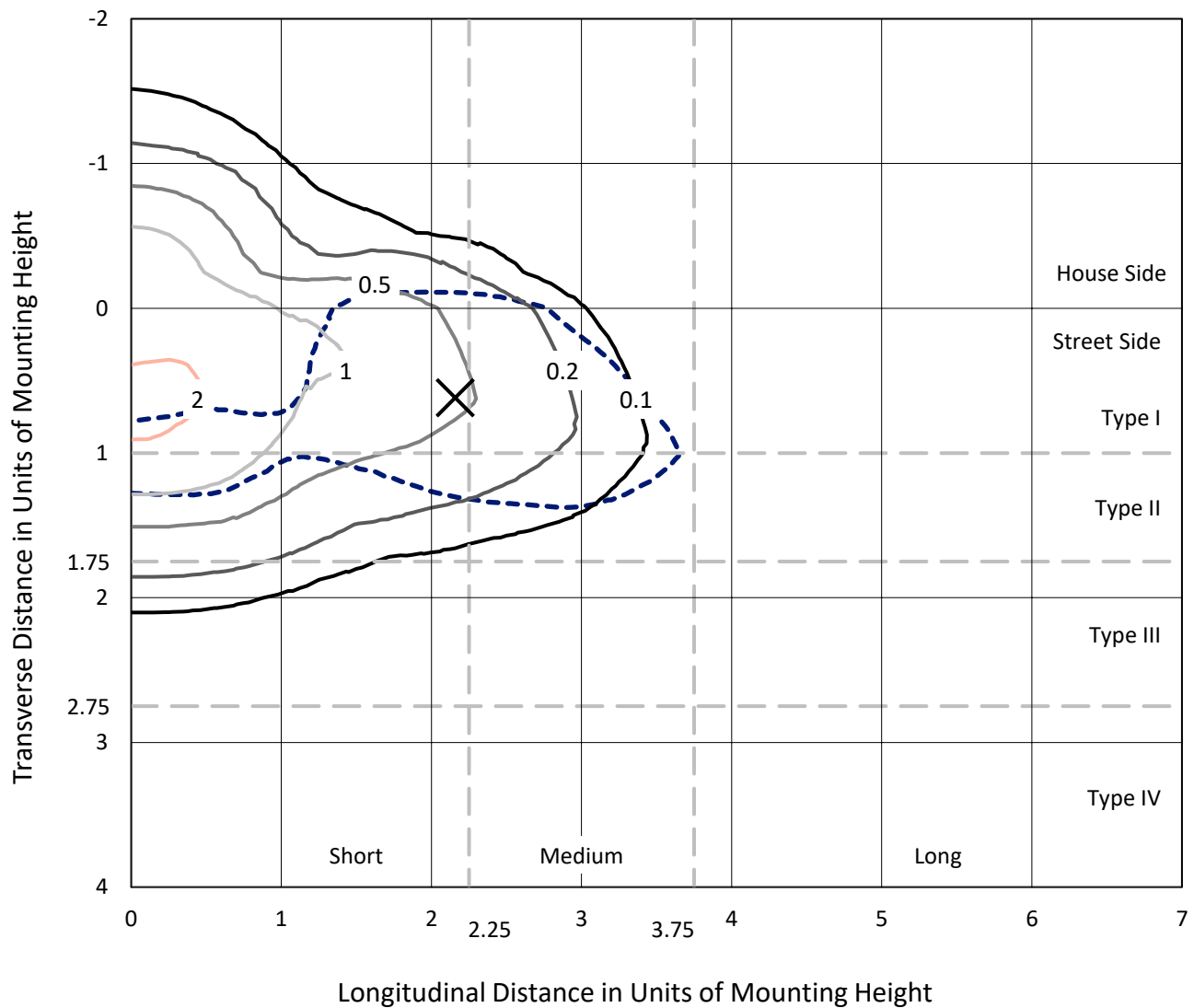


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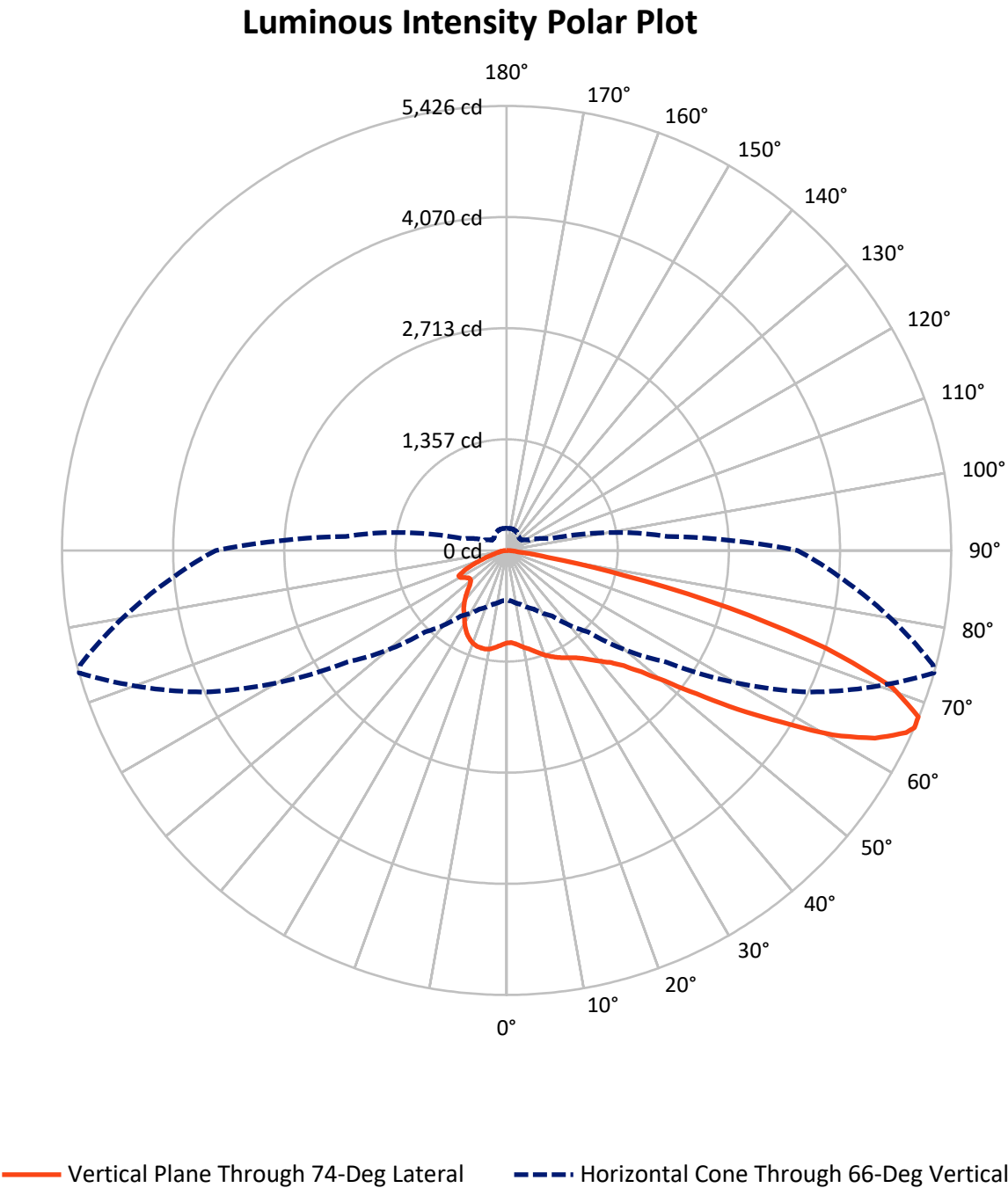
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1675.0	0.0	1675.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	5203.0	0.0	5203.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	6878.0	0.0	6878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	1.6
10°-20°	330.8	4.8
20°-30°	620.7	9.0
30°-40°	954.7	13.9
40°-50°	1284.2	18.7
50°-60°	1518.7	22.1
60°-70°	1404.9	20.4
70°-80°	591.0	8.6
80°-90°	65.4	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°	6878.0	100.0
0°-180°	6878.0	100.0

Coefficient of Utilization



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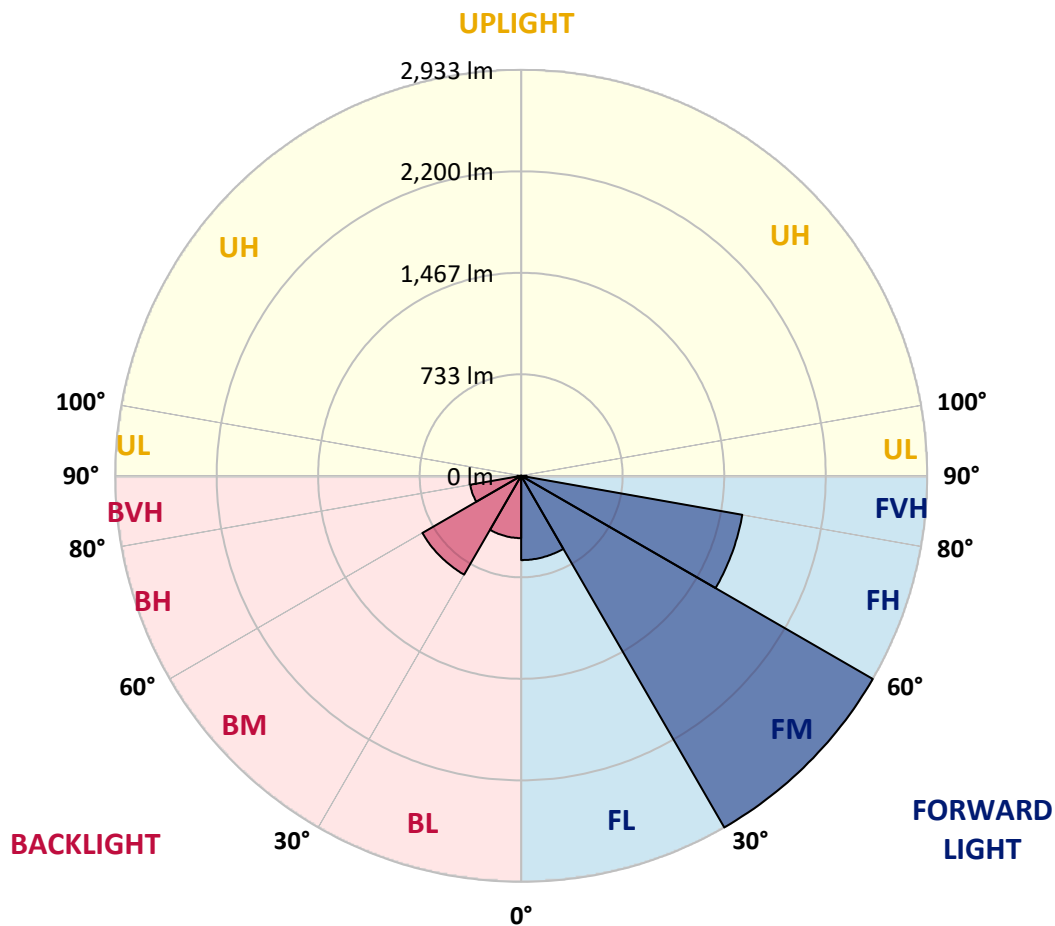
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	608.8	8.9			
FM	(30°-60°)	2933.1	42.6			
FH	(60°-80°)	1622.0	23.6			G1/1800
FVH	(80°-90°)	39.1	0.6			G1/100
BL	(0°-30°)	450.2	6.5	B1/500		
BM	(30°-60°)	824.6	12.0	B1/1000		
BH	(60°-80°)	373.9	5.4	B1/500		G1/500
BVH	(80°-90°)	26.3	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°	1127.5	1127.5	1127.5	1127.5	1127.5	1127.5	1127.5	1127.5	1127.5	1127.5	1127.5
2.5°	1124.0	1122.2	1125.8	1131.1	1133.7	1129.3	1127.5	1126.6	1126.6	1124.0	1128.4
5°	1070.9	1070.0	1078.0	1087.7	1106.3	1119.6	1137.3	1147.9	1144.3	1139.0	1142.6
7.5°	1001.9	1000.1	1009.8	1028.4	1054.1	1083.3	1126.6	1160.3	1173.6	1171.8	1170.9
10°	1028.4	1026.6	1025.8	1020.4	1029.3	1057.6	1102.8	1162.0	1207.2	1208.1	1209.0
12.5°	1120.5	1124.9	1120.5	1103.6	1084.2	1073.5	1100.1	1166.5	1235.5	1240.8	1262.9
15°	1246.1	1241.7	1232.9	1213.4	1183.3	1151.4	1132.0	1186.8	1276.2	1280.6	1329.3
17.5°	1356.8	1360.3	1355.0	1336.4	1301.0	1259.4	1200.1	1222.2	1319.6	1332.0	1400.1
20°	1477.1	1491.3	1484.2	1461.2	1432.0	1370.0	1295.7	1273.6	1367.4	1376.2	1473.6
22.5°	1616.1	1631.1	1617.8	1595.7	1571.8	1495.7	1400.1	1336.4	1407.2	1425.8	1544.4
25°	1782.5	1796.6	1784.2	1749.7	1719.6	1626.7	1512.5	1407.2	1446.1	1466.5	1601.9
27.5°	1914.3	1924.9	1936.5	1916.1	1870.1	1773.6	1629.3	1480.7	1485.1	1506.3	1655.0
30°	2032.0	2058.6	2068.3	2071.0	2032.0	1924.1	1748.8	1556.8	1518.7	1540.8	1708.1
32.5°	2193.1	2232.9	2217.0	2232.9	2209.9	2065.7	1872.7	1635.5	1562.1	1582.4	1758.6
35°	2428.5	2460.4	2418.8	2406.4	2369.2	2209.0	1992.2	1717.0	1619.6	1641.7	1806.4
37.5°	2681.7	2717.9	2657.8	2608.2	2537.4	2350.6	2094.9	1824.1	1699.3	1717.0	1850.6
40°	2902.9	2933.0	2880.8	2815.3	2696.7	2475.4	2183.4	1899.3	1778.9	1801.0	1901.9
42.5°	3107.4	3126.8	3068.4	3005.6	2847.2	2587.8	2279.0	1978.9	1871.8	1893.1	1943.5
45°	3314.5	3329.5	3248.1	3158.7	2972.8	2690.5	2384.3	2090.4	2008.1	2036.5	2010.8
47.5°	3351.6	3356.0	3341.9	3281.7	3072.0	2788.7	2514.4	2240.0	2216.1	2247.1	2126.7
50°	3094.1	3133.9	3221.5	3280.8	3111.8	2871.0	2644.5	2454.2	2502.9	2542.7	2367.5
52.5°	2594.0	2632.1	2834.8	3059.6	3016.2	2889.6	2784.3	2725.9	2907.3	2955.1	2694.9
55°	2066.6	2100.2	2314.4	2638.3	2707.3	2804.7	2933.9	3072.8	3423.3	3455.2	3054.3
57.5°	1701.9	1720.5	1873.6	2185.1	2295.8	2533.0	3014.4	3485.3	3948.1	3996.8	3366.7
60°	1395.7	1416.1	1530.2	1786.9	1933.8	2144.4	2950.7	3892.4	4574.7	4574.7	3767.6
62.5°	1050.5	1068.2	1174.4	1375.3	1622.3	1815.2	2747.1	4162.3	5047.3	5026.1	4057.9
65°	721.3	735.5	812.5	946.1	1168.2	1547.0	2469.2	4165.9	5360.6	5332.3	4181.8
66°	605.4	617.8	683.2	791.2	978.0	1403.7	2371.0	4090.6	5426.1	5386.3	4129.6
67.5°	477.9	486.8	530.1	593.9	716.9	1136.4	2216.1	3877.3	5419.9	5396.1	3996.8
70°	341.6	347.8	379.7	393.0	423.9	657.6	1760.3	3395.9	4985.4	4992.5	3474.6
72.5°	264.6	274.4	293.8	296.5	289.4	349.6	1068.2	2833.0	4078.2	4075.6	2579.0
75°	213.3	218.6	228.3	233.6	231.9	225.7	452.3	2113.5	2807.3	2840.1	1444.4
77.5°	168.2	167.3	176.1	183.2	188.5	177.0	207.1	1239.0	1471.8	1430.2	542.5
80°	123.9	123.9	136.3	139.0	146.9	148.7	138.1	477.9	505.4	459.3	140.7
82.5°	81.4	81.4	94.7	96.5	104.4	115.9	100.0	143.4	139.8	132.8	63.7
85°	44.3	42.5	46.9	53.1	57.5	68.1	60.2	71.7	73.5	72.6	42.5
87.5°	8.9	8.0	12.4	14.2	15.9	21.2	19.5	29.2	40.7	39.8	18.6
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°	1127.5	1127.5	1127.5	1127.5	1127.5	1127.5	1127.5	1127.5	1127.5	1127.5	1127.5
2.5°	1134.6	1133.7	1143.5	1155.0	1168.2	1176.2	1179.7	1185.9	1181.5	1183.3	1188.6
5°	1151.4	1154.1	1168.2	1183.3	1189.5	1185.1	1175.3	1171.8	1163.8	1162.0	1160.3
7.5°	1176.2	1180.6	1194.8	1198.3	1179.7	1148.8	1126.6	1114.3	1101.0	1097.4	1095.7
10°	1216.9	1219.6	1223.1	1186.8	1140.8	1099.2	1071.8	1060.3	1051.4	1044.3	1046.1
12.5°	1268.3	1266.5	1239.0	1163.8	1098.3	1055.8	1037.3	1030.2	1024.0	1019.6	1018.7
15°	1332.9	1320.5	1241.7	1132.0	1058.5	1023.1	1009.8	1007.2	1000.1	1000.1	999.2
17.5°	1398.4	1366.5	1239.9	1098.3	1020.4	1001.0	993.0	991.2	989.5	988.6	991.2
20°	1463.8	1407.2	1225.8	1056.7	993.9	982.4	980.6	981.5	979.7	982.4	980.6
22.5°	1521.4	1433.8	1199.2	1012.5	975.3	974.4	970.0	971.8	978.0	978.8	981.5
25°	1565.6	1443.5	1160.3	971.8	962.0	960.3	965.6	972.7	978.0	978.8	983.3
27.5°	1601.9	1438.2	1111.6	939.9	939.0	948.8	964.7	967.3	968.2	968.2	964.7
30°	1629.3	1426.7	1049.6	904.5	908.9	932.8	947.9	947.9	940.8	939.0	944.3
32.5°	1635.5	1411.6	982.4	868.2	875.3	903.6	922.2	916.0	908.0	908.0	911.6
35°	1640.9	1391.3	928.4	818.7	829.3	862.9	880.6	868.2	859.4	856.7	855.8
37.5°	1639.1	1383.3	879.7	755.8	770.0	802.7	814.2	802.7	789.5	783.3	791.2
40°	1640.9	1378.0	818.7	686.8	700.9	720.4	735.5	726.6	714.2	698.3	706.3
42.5°	1651.5	1385.1	751.4	619.5	619.5	630.1	655.8	649.6	619.5	613.3	620.4
45°	1708.1	1423.1	684.1	552.3	542.5	549.6	576.2	549.6	531.0	531.0	537.2
47.5°	1845.3	1493.9	624.8	493.0	470.0	484.1	491.2	466.4	452.3	448.7	454.9
50°	2125.0	1635.5	589.4	444.3	416.0	426.6	422.2	421.3	407.1	408.9	412.4
52.5°	2549.8	1911.7	578.8	420.4	385.0	387.6	383.2	385.0	382.3	391.2	393.8
55°	3012.7	2202.8	592.1	423.9	363.7	345.2	346.9	355.8	366.4	380.6	383.2
57.5°	3358.7	2348.9	626.6	447.8	337.2	308.9	313.3	330.1	350.5	362.0	368.2
60°	3616.2	2331.2	677.1	454.0	305.3	276.1	284.1	308.9	326.6	336.3	342.5
62.5°	3700.3	2220.5	689.4	408.9	263.7	245.2	264.6	290.3	298.3	308.9	313.3
65°	3631.3	2063.9	599.2	331.9	231.9	222.1	250.5	269.9	280.6	285.9	286.8
66°	3549.9	1970.1	550.5	301.8	220.4	215.1	245.2	261.1	271.7	270.8	271.7
67.5°	3371.1	1773.6	471.7	259.3	203.6	204.4	236.3	246.9	250.5	247.8	247.8
70°	2763.1	1248.8	338.1	196.5	178.8	191.2	212.4	215.1	223.0	219.5	219.5
72.5°	1703.7	613.3	226.6	150.5	159.3	178.8	177.9	186.7	205.3	210.6	214.2
75°	837.2	248.7	149.6	127.4	142.5	149.6	147.8	169.9	196.5	219.5	227.5
77.5°	317.7	123.9	104.4	111.5	115.1	112.4	117.7	154.0	196.5	238.1	246.0
80°	98.2	85.8	82.3	92.0	86.7	82.3	88.5	127.4	166.4	180.5	180.5
82.5°	59.3	67.3	63.7	62.8	58.4	59.3	63.7	91.2	128.3	134.5	134.5
85°	41.6	44.3	36.3	34.5	33.6	32.7	32.7	53.1	76.1	75.2	77.9
87.5°	15.9	17.7	13.3	13.3	12.4	8.9	7.1	8.9	8.9	6.2	4.4
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)