

Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209234

Luminaire Tested: UPW-SA2-110-727-U-SL4

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209234  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-5)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-110-727-U-SL4  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12048 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 113  
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: 28.75 FT

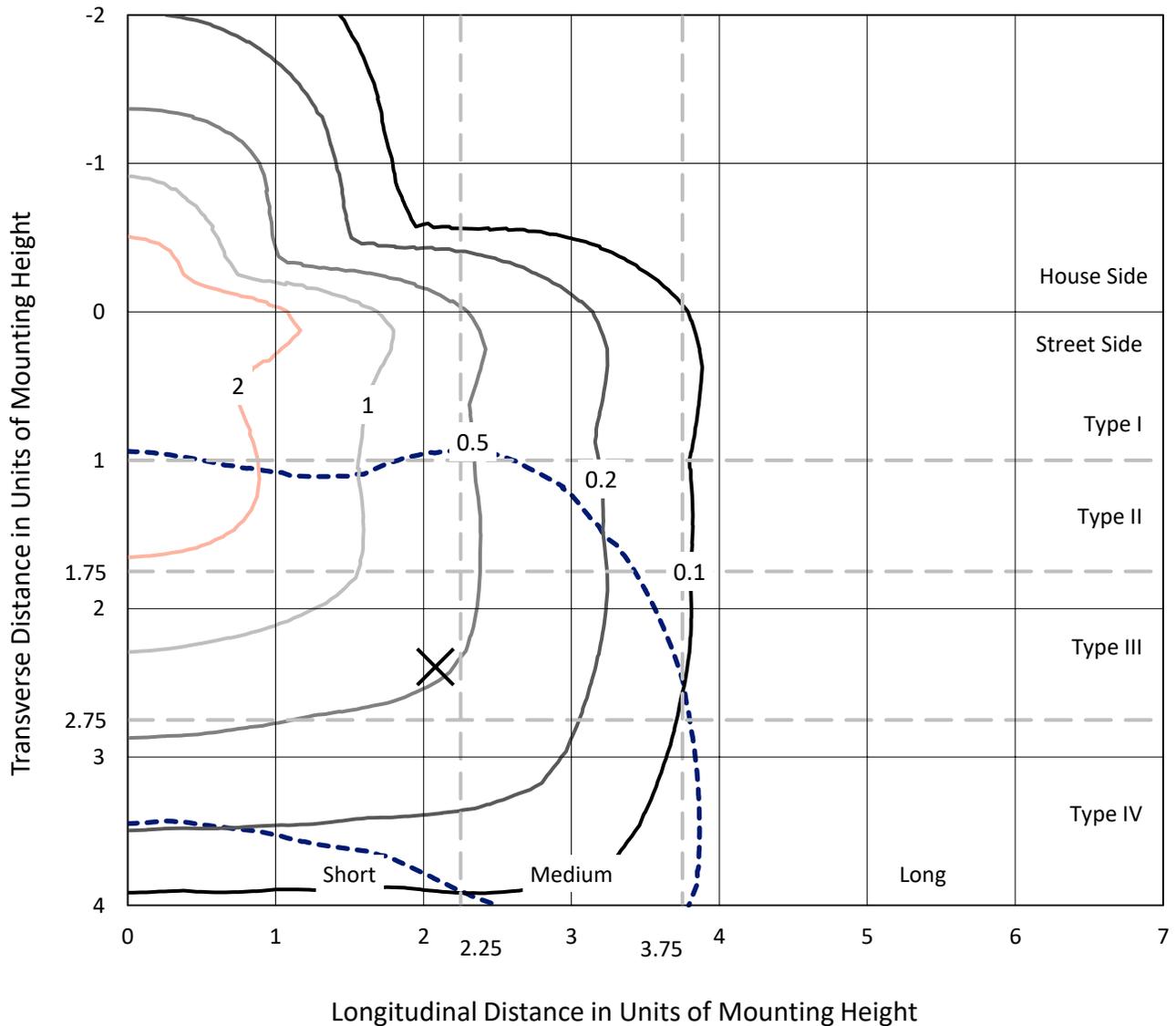


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

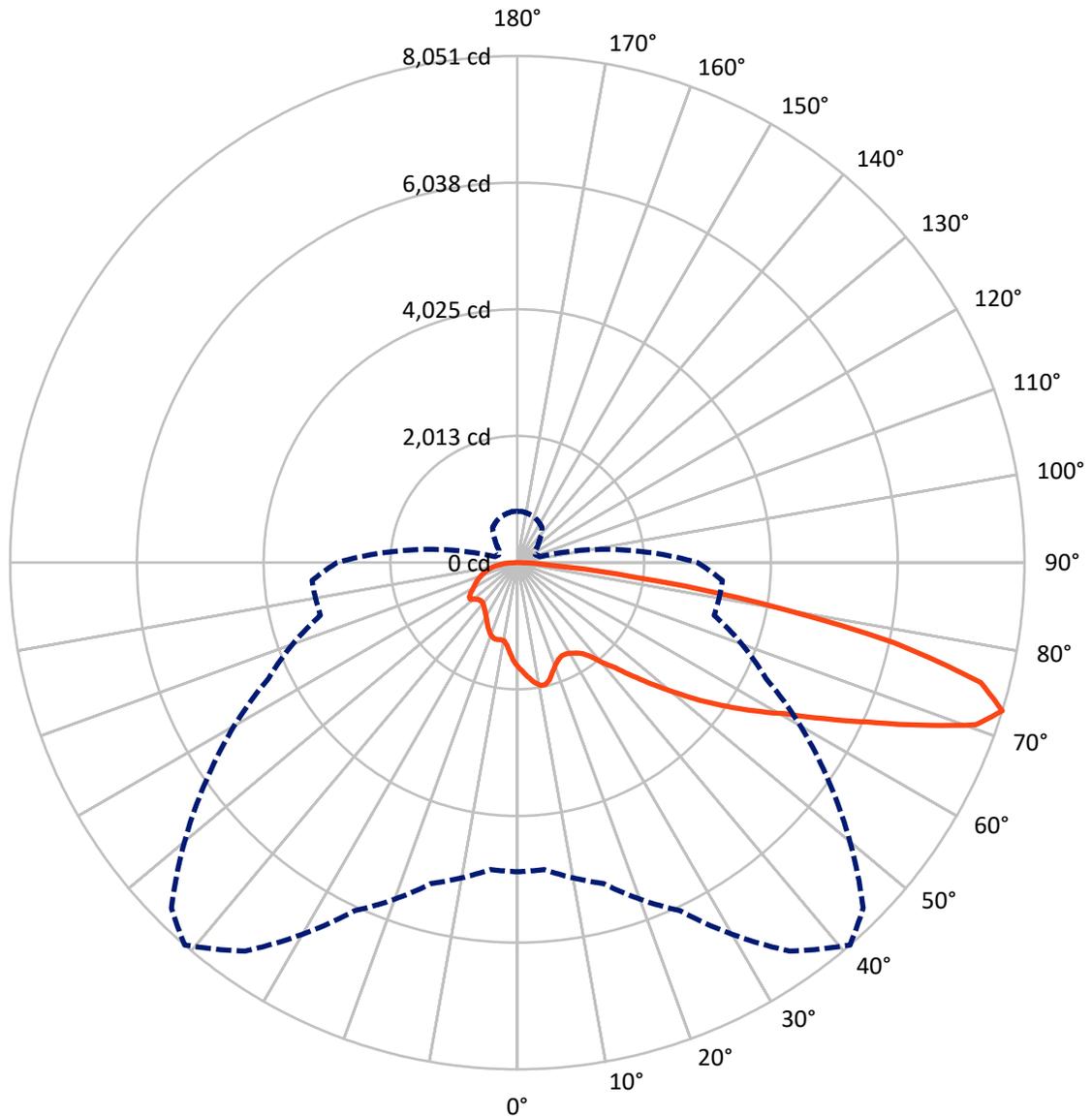


Based on 20 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2607.0	0.0	2607.0
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	9441.0	0.0	9441.0
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	12048.0	0.0	12048.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.0	1.3
10°-20°	475.8	3.9
20°-30°	731.3	6.1
30°-40°	1005.4	8.3
40°-50°	1531.9	12.7
50°-60°	2262.3	18.8
60°-70°	2971.0	24.7
70°-80°	2545.6	21.1
80°-90°	366.8	3.0
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°	12048.0	100.0
0°-180°	12048.0	100.0

**Coefficient of Utilization**



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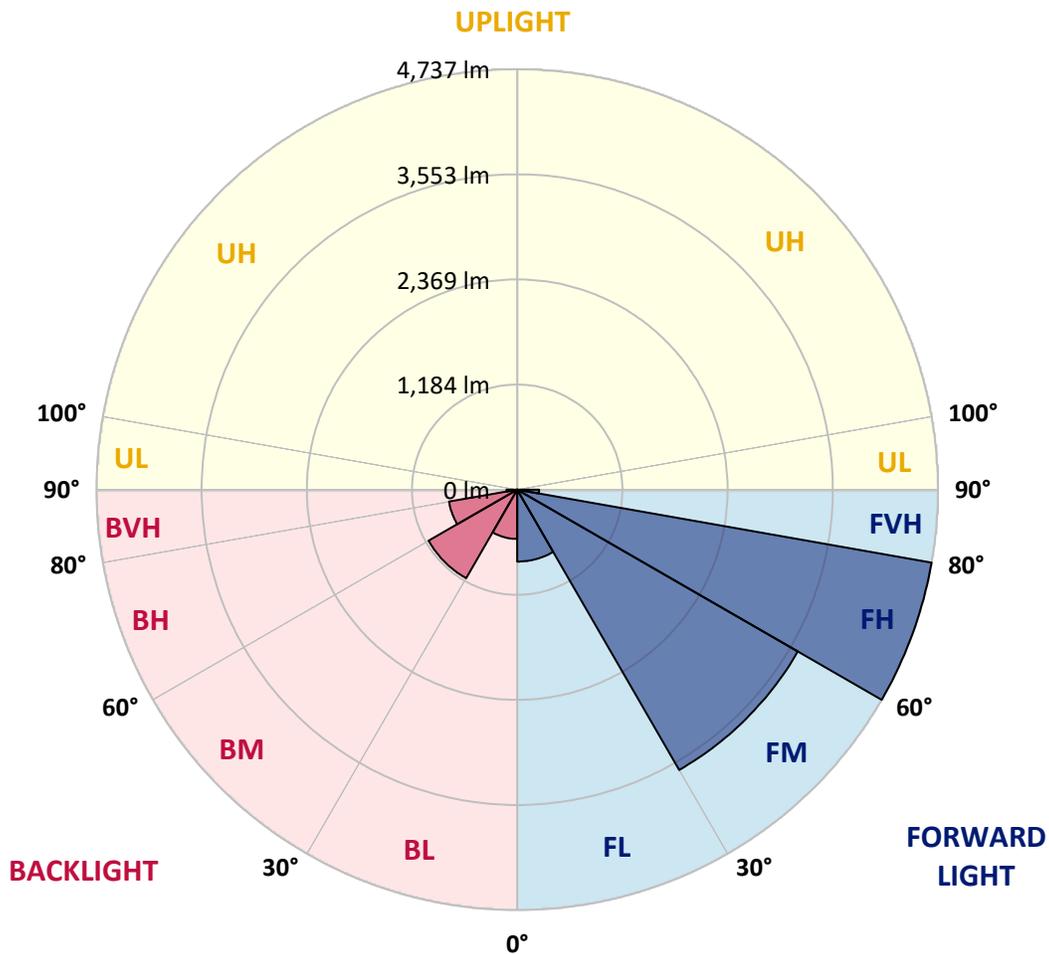
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	810.3	6.7			
FM (30°-60°)	3647.3	30.3			
FH (60°-80°)	4737.0	39.3			G2/5000
FVH (80°-90°)	246.3	2.0			G3/500
BL (0°-30°)	554.8	4.6	B2/1000		
BM (30°-60°)	1152.2	9.6	B2/2500		
BH (60°-80°)	779.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	120.4	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0
2.5°	1763.3	1758.0	1758.0	1754.0	1747.4	1738.1	1736.8	1724.9	1712.9	1695.7	1678.5
5°	1865.3	1857.3	1854.7	1849.4	1842.8	1829.5	1830.8	1809.6	1784.5	1751.3	1716.9
7.5°	1938.1	1932.8	1931.5	1932.8	1923.6	1916.9	1916.9	1891.8	1866.6	1830.8	1777.8
10°	1963.3	1956.7	1962.0	1973.9	1983.2	1981.9	1988.5	1979.2	1960.7	1930.2	1856.0
12.5°	1918.3	1918.3	1920.9	1936.8	1967.3	1991.1	2012.3	2050.7	2068.0	2041.5	1948.7
15°	1849.4	1845.4	1841.4	1848.1	1885.2	1924.9	1969.9	2073.3	2148.8	2147.5	2046.8
17.5°	1808.3	1805.7	1777.8	1751.3	1771.2	1817.6	1874.6	2040.1	2200.4	2244.2	2144.8
20°	1784.5	1779.2	1746.0	1693.1	1685.1	1732.8	1776.5	1972.6	2208.4	2336.9	2237.5
22.5°	1764.6	1761.9	1719.6	1649.3	1629.5	1669.2	1714.3	1890.4	2179.2	2397.8	2319.7
25°	1773.9	1768.6	1715.6	1632.1	1608.3	1641.4	1681.1	1825.5	2127.6	2432.3	2385.9
27.5°	1818.9	1818.9	1748.7	1649.3	1618.9	1641.4	1671.9	1789.8	2071.9	2441.6	2446.9
30°	1922.2	1918.3	1829.5	1709.0	1659.9	1669.2	1690.4	1777.8	2017.6	2424.3	2486.6
32.5°	2103.7	2090.5	1980.5	1816.3	1720.9	1711.6	1715.6	1769.9	1962.0	2393.9	2525.0
35°	2433.6	2397.8	2229.6	2005.7	1829.5	1772.5	1756.6	1777.8	1928.9	2372.7	2560.8
37.5°	2873.4	2823.1	2615.1	2298.5	2017.6	1895.7	1841.4	1816.3	1923.6	2347.5	2595.2
40°	3292.1	3261.6	3015.2	2645.6	2261.4	2090.5	2001.7	1874.6	1930.2	2331.6	2642.9
42.5°	3825.9	3776.9	3490.8	3009.9	2529.0	2282.6	2154.1	1952.7	1972.6	2342.2	2697.2
45°	4400.9	4391.6	4035.3	3457.7	2862.8	2567.4	2404.5	2099.8	2054.7	2384.6	2778.0
47.5°	5022.2	4979.8	4606.2	3978.3	3241.7	2886.7	2685.3	2269.3	2172.6	2456.1	2885.4
50°	5550.8	5520.3	5136.1	4459.2	3655.0	3236.4	3001.9	2474.7	2319.7	2552.8	2998.0
52.5°	5833.0	5810.4	5574.6	4965.2	4079.0	3632.5	3294.7	2689.3	2503.8	2673.4	3121.2
55°	5765.4	5752.2	5750.8	5346.8	4541.3	4031.3	3628.6	2918.5	2715.8	2817.8	3266.9
57.5°	5746.9	5724.3	5736.3	5610.4	4981.1	4443.3	3999.5	3203.3	2980.7	2991.3	3419.2
60°	5765.4	5752.2	5819.7	5773.4	5394.5	4875.2	4431.4	3549.1	3257.6	3168.9	3555.7
62.5°	5937.6	5905.8	5958.8	6056.9	5844.9	5460.7	4977.2	3961.1	3565.0	3302.7	3661.7
65°	6201.3	6141.6	6158.9	6406.6	6376.1	6099.3	5625.0	4497.6	3853.8	3410.0	3710.7
67.5°	6276.8	6256.9	6301.9	6618.6	6935.2	6887.5	6446.3	5089.8	4135.9	3470.9	3655.0
70°	5965.4	5940.3	6141.6	6630.5	7485.0	7718.1	7308.8	5660.8	4377.0	3448.4	3527.9
72.5°	4910.9	4895.0	5277.9	6101.9	7535.3	8050.6	7764.5	6023.7	4357.2	3235.1	3269.5
75°	3176.8	3123.8	3738.5	4798.3	6761.6	7596.2	7393.6	5566.7	3816.7	2876.1	2816.5
77.5°	1123.4	1262.5	1614.9	2853.6	5137.5	6113.8	5774.7	4175.7	2819.1	2107.7	1984.5
80°	392.1	412.0	515.3	1069.1	2779.4	3916.0	3643.1	2420.4	1506.3	1098.2	1053.2
82.5°	230.5	241.1	270.3	392.1	1022.7	1860.0	1552.6	1016.1	551.1	471.6	413.3
85°	78.2	83.5	140.4	201.4	363.0	537.9	483.5	261.0	213.3	190.8	123.2
87.5°	15.9	18.5	30.5	66.2	121.9	137.8	104.7	63.6	88.8	88.8	42.4
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°	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0
2.5°	1666.6	1654.6	1633.4	1613.6	1592.4	1576.5	1556.6	1540.7	1543.4	1534.1	1531.4
5°	1694.4	1669.2	1618.9	1565.9	1511.6	1459.9	1416.2	1380.4	1360.5	1349.9	1348.6
7.5°	1739.4	1701.0	1610.9	1514.2	1412.2	1342.0	1295.6	1273.1	1270.5	1267.8	1263.8
10°	1809.6	1748.7	1608.3	1453.3	1324.8	1263.8	1255.9	1271.8	1294.3	1306.2	1306.2
12.5°	1883.8	1805.7	1606.9	1391.0	1257.2	1237.3	1273.1	1318.1	1355.2	1372.5	1369.8
15°	1963.3	1862.6	1587.1	1320.8	1209.5	1238.7	1300.9	1349.9	1388.4	1404.3	1405.6
17.5°	2048.1	1914.3	1554.0	1244.0	1175.1	1236.0	1299.6	1342.0	1376.4	1388.4	1385.7
20°	2121.0	1960.7	1507.6	1165.8	1144.6	1210.8	1267.8	1299.6	1319.5	1322.1	1322.1
22.5°	2180.6	1993.8	1440.0	1092.9	1102.2	1167.1	1210.8	1228.1	1236.0	1240.0	1238.7
25°	2238.9	2016.3	1363.2	1025.4	1051.9	1108.8	1140.6	1156.5	1161.8	1165.8	1168.4
27.5°	2278.6	2026.9	1273.1	951.2	993.6	1042.6	1073.1	1089.0	1100.9	1108.8	1108.8
30°	2306.4	2020.3	1179.0	895.5	943.2	984.3	1020.1	1041.3	1058.5	1067.8	1069.1
32.5°	2332.9	2012.3	1083.7	839.9	892.9	936.6	977.7	1009.5	1033.3	1043.9	1047.9
35°	2352.8	1995.1	983.0	797.5	846.5	892.9	939.3	979.0	1009.5	1028.0	1032.0
37.5°	2372.7	1977.9	890.2	752.5	806.8	857.1	910.1	948.5	984.3	1009.5	1017.4
40°	2400.5	1966.0	808.1	712.7	776.3	832.0	879.6	924.7	965.8	988.3	996.2
42.5°	2438.9	1958.0	737.9	683.6	752.5	816.1	866.4	924.7	975.0	985.6	990.9
45°	2490.6	1958.0	680.9	659.7	740.5	816.1	878.3	941.9	981.7	977.7	981.7
47.5°	2547.5	1958.0	635.9	638.5	735.2	826.7	896.9	973.7	1016.1	1028.0	1036.0
50°	2627.0	1958.0	600.1	620.0	726.0	843.9	959.1	1037.3	1062.5	1066.4	1069.1
52.5°	2714.5	1975.2	573.6	601.4	723.3	899.5	1008.2	1034.6	1033.3	1021.4	1020.1
55°	2819.1	2005.7	549.8	580.3	732.6	910.1	976.4	984.3	959.1	936.6	931.3
57.5°	2925.1	2044.1	525.9	553.8	695.5	845.2	924.7	918.1	916.7	904.8	903.5
60°	3041.7	2087.8	499.4	510.0	621.3	782.9	854.5	906.1	920.7	908.8	906.1
62.5°	3127.8	2138.2	471.6	462.3	557.7	727.3	829.3	894.2	922.0	922.0	920.7
65°	3168.9	2163.4	445.1	418.6	503.4	669.0	805.5	861.1	895.5	904.8	902.2
67.5°	3121.2	2128.9	425.3	381.5	451.7	609.4	767.0	818.7	863.8	878.3	877.0
70°	3039.0	2101.1	409.4	343.1	406.7	545.8	728.6	784.3	829.3	854.5	851.8
72.5°	2860.2	2003.1	369.6	310.0	356.4	495.5	682.3	747.2	789.6	817.4	816.1
75°	2454.8	1760.6	308.7	279.5	302.0	446.4	631.9	704.8	735.2	761.7	760.4
77.5°	1809.6	1323.4	242.4	235.8	253.0	394.8	568.3	639.9	663.7	683.6	679.6
80°	953.8	775.0	190.8	193.4	209.3	340.5	504.7	559.1	578.9	589.5	581.6
82.5°	416.0	335.2	141.8	153.7	164.3	272.9	416.0	463.7	476.9	469.0	446.4
85°	132.5	91.4	84.8	100.7	111.3	181.5	323.2	360.3	382.9	359.0	353.7
87.5°	33.1	30.5	35.8	51.7	58.3	100.7	219.9	227.9	258.3	79.5	74.2
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)