

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: P1209072

Luminaire Tested: UPW-SA2-090-740-U-SL4

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-5)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-740-U-SL4
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 800mA 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: 11640 lumens
Efficiency: N/A
Efficacy: 135.3 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): 86
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

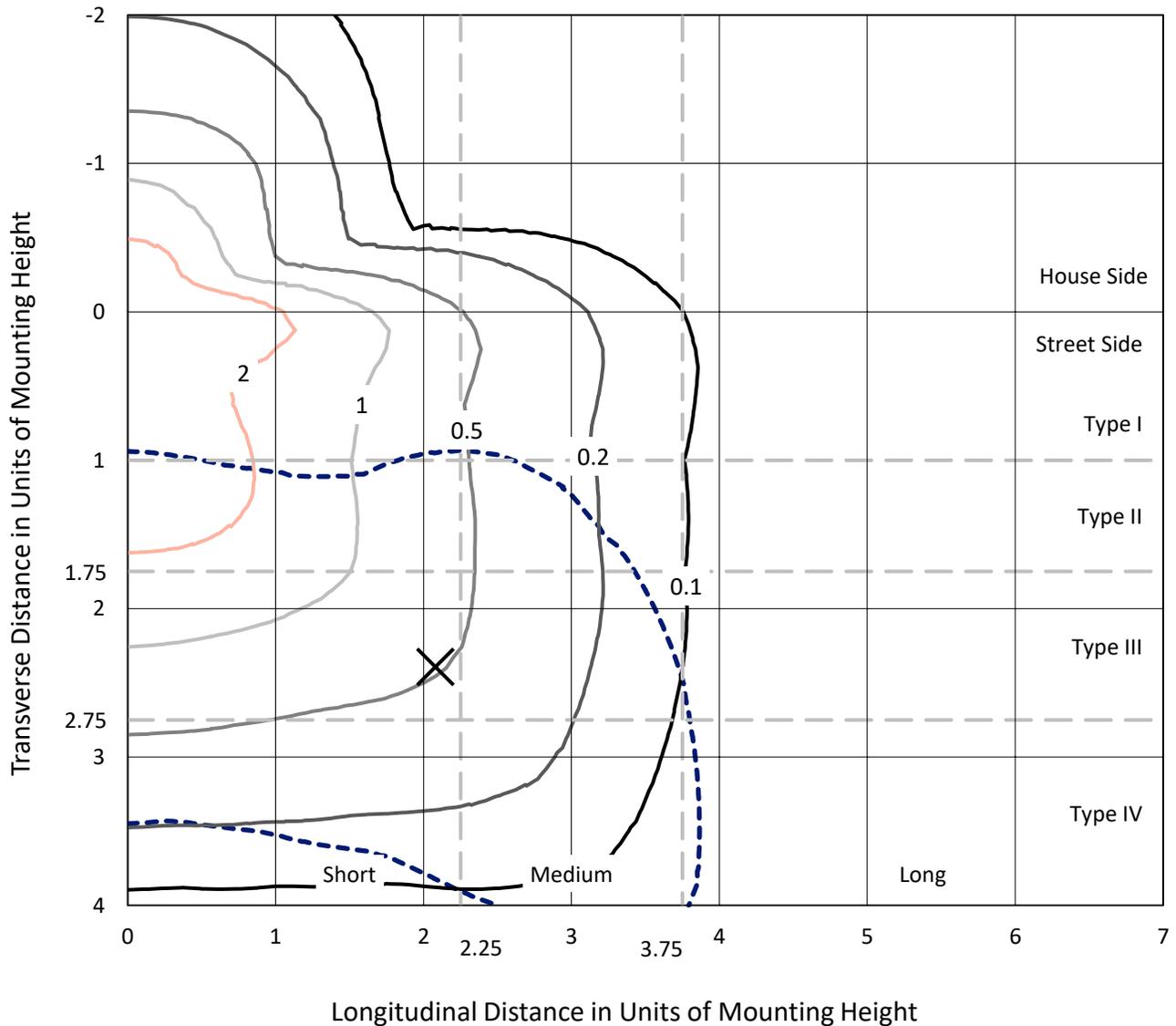


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

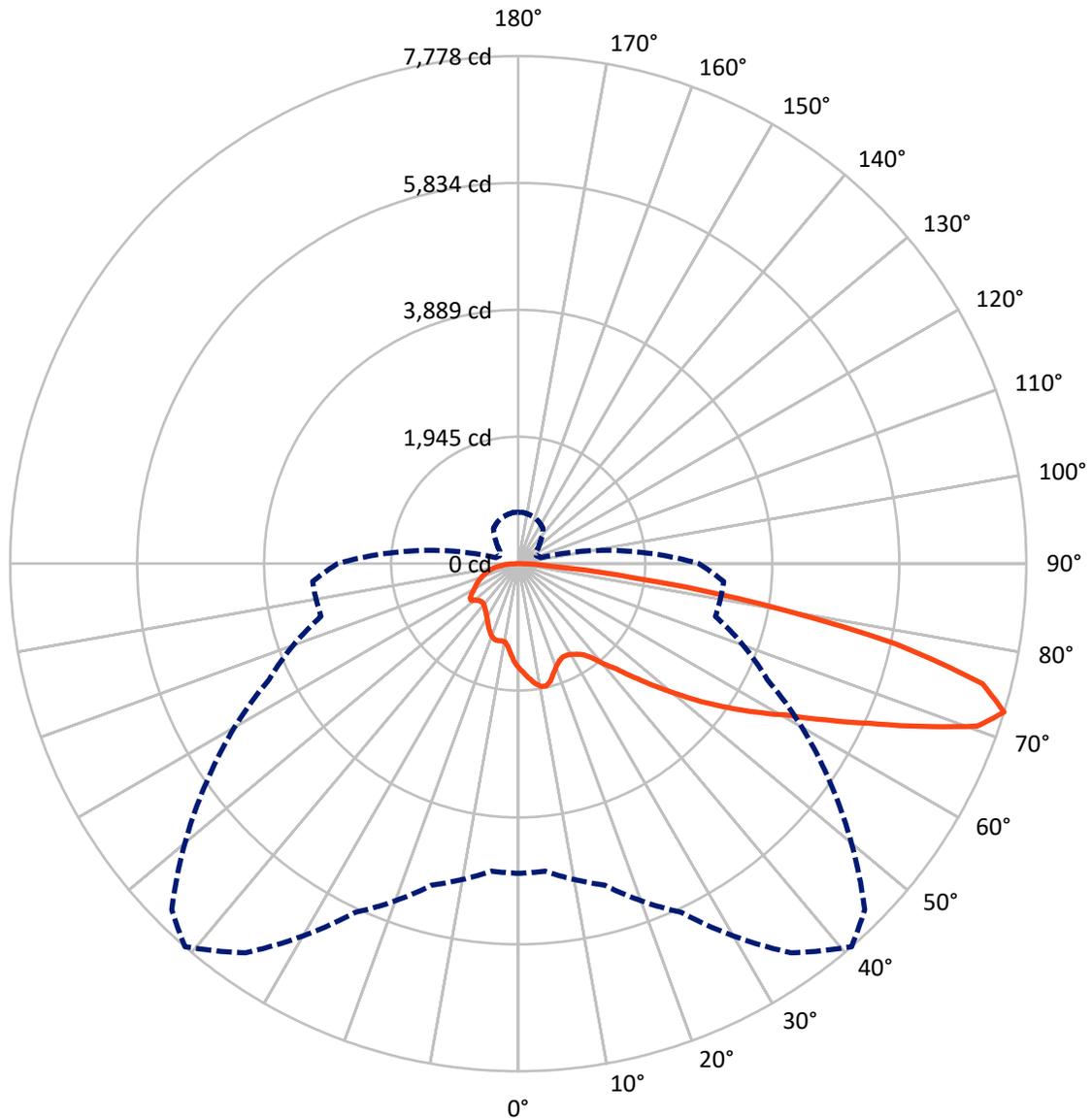


Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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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
House Side	Lumens	2518.7	0.0	2518.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9121.3	0.0	9121.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	11640.0	0.0	11640.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	1.3
10°-20°	459.7	3.9
20°-30°	706.6	6.1
30°-40°	971.3	8.3
40°-50°	1480.0	12.7
50°-60°	2185.7	18.8
60°-70°	2870.4	24.7
70°-80°	2459.3	21.1
80°-90°	354.3	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°	11640.0	100.0
0°-180°	11640.0	100.0



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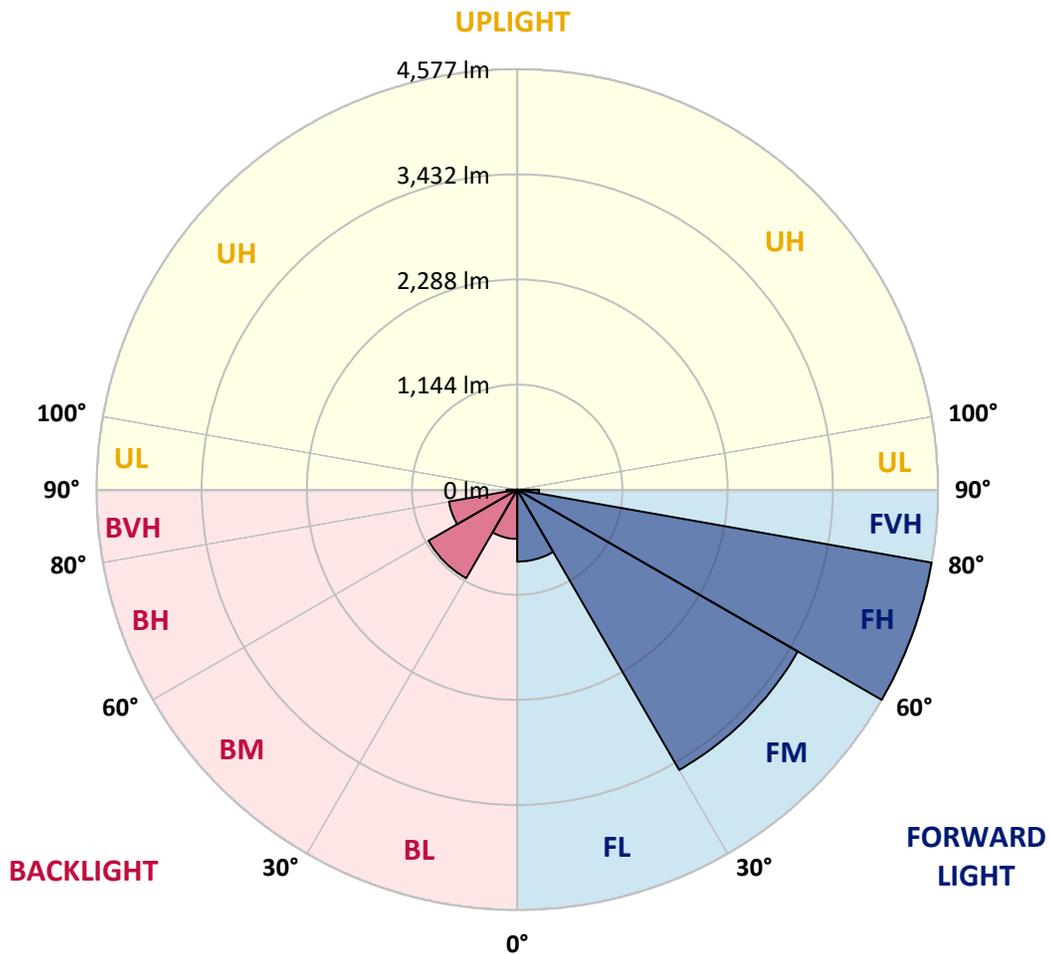
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	782.8	6.7			
FM	(30°-60°)	3523.8	30.3			
FH	(60°-80°)	4576.6	39.3			G2/5000
FVH	(80°-90°)	238.0	2.0			G3/500
BL	(0°-30°)	536.1	4.6	B2/1000		
BM	(30°-60°)	1113.2	9.6	B2/2500		
BH	(60°-80°)	753.1	6.5	B2/1000		G2/1000
BVH	(80°-90°)	116.4	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°	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9
2.5°	1703.6	1698.4	1698.4	1694.6	1688.2	1679.2	1678.0	1666.4	1654.9	1638.3	1621.6
5°	1802.1	1794.4	1791.9	1786.8	1780.4	1767.6	1768.8	1748.4	1724.0	1692.0	1658.8
7.5°	1872.5	1867.4	1866.1	1867.4	1858.4	1852.0	1852.0	1827.7	1803.4	1768.8	1717.6
10°	1896.8	1890.4	1895.5	1907.1	1916.0	1914.7	1921.1	1912.2	1894.3	1864.8	1793.2
12.5°	1853.3	1853.3	1855.9	1871.2	1900.7	1923.7	1944.2	1981.3	1997.9	1972.3	1882.7
15°	1786.8	1782.9	1779.1	1785.5	1821.3	1859.7	1903.2	2003.1	2076.0	2074.7	1977.5
17.5°	1747.1	1744.5	1717.6	1692.0	1711.2	1756.0	1811.1	1971.1	2125.9	2168.2	2072.2
20°	1724.0	1718.9	1686.9	1635.7	1628.0	1674.1	1716.4	1905.8	2133.6	2257.8	2161.8
22.5°	1704.8	1702.3	1661.3	1593.5	1574.3	1612.7	1656.2	1826.4	2105.5	2316.6	2241.1
25°	1713.8	1708.7	1657.5	1576.8	1553.8	1585.8	1624.2	1763.7	2055.5	2349.9	2305.1
27.5°	1757.3	1757.3	1689.5	1593.5	1564.0	1585.8	1615.2	1729.2	2001.8	2358.9	2364.0
30°	1857.1	1853.3	1767.6	1651.1	1603.7	1612.7	1633.2	1717.6	1949.3	2342.2	2402.4
32.5°	2032.5	2019.7	1913.5	1754.8	1662.6	1653.6	1657.5	1710.0	1895.5	2312.8	2439.5
35°	2351.2	2316.6	2154.1	1937.8	1767.6	1712.5	1697.2	1717.6	1863.5	2292.3	2474.1
37.5°	2776.1	2727.5	2526.5	2220.6	1949.3	1831.6	1779.1	1754.8	1858.4	2268.0	2507.3
40°	3180.6	3151.1	2913.1	2556.0	2184.8	2019.7	1933.9	1811.1	1864.8	2252.6	2553.4
42.5°	3696.4	3649.0	3372.6	2908.0	2443.3	2205.3	2081.1	1886.6	1905.8	2262.9	2605.9
45°	4251.9	4242.9	3898.6	3340.6	2765.9	2480.5	2323.0	2028.7	1985.1	2303.8	2684.0
47.5°	4852.1	4811.2	4450.2	3843.6	3131.9	2788.9	2594.4	2192.5	2099.1	2373.0	2787.6
50°	5362.8	5333.4	4962.2	4308.2	3531.3	3126.8	2900.3	2390.9	2241.1	2466.4	2896.4
52.5°	5635.4	5613.7	5385.9	4797.1	3940.8	3509.5	3183.1	2598.2	2419.0	2582.9	3015.5
55°	5570.2	5557.4	5556.1	5165.7	4387.5	3894.8	3505.7	2819.6	2623.8	2722.4	3156.3
57.5°	5552.2	5530.5	5542.0	5420.4	4812.5	4292.8	3864.0	3094.8	2879.8	2890.0	3303.4
60°	5570.2	5557.4	5622.6	5577.8	5211.8	4710.1	4281.3	3428.9	3147.3	3061.5	3435.3
62.5°	5736.6	5705.8	5757.0	5851.7	5647.0	5275.8	4808.6	3826.9	3444.2	3190.8	3537.7
65°	5991.3	5933.7	5950.3	6189.6	6160.2	5892.7	5434.5	4345.3	3723.3	3294.5	3585.0
67.5°	6064.2	6045.0	6088.5	6394.4	6700.3	6654.2	6228.0	4917.4	3995.9	3353.4	3531.3
70°	5763.4	5739.1	5933.7	6405.9	7231.5	7456.8	7061.3	5469.1	4228.8	3331.6	3408.4
72.5°	4744.6	4729.3	5099.2	5895.3	7280.1	7778.0	7501.5	5819.7	4209.6	3125.5	3158.8
75°	3069.2	3018.0	3611.9	4635.8	6532.7	7339.0	7143.2	5378.2	3687.4	2778.7	2721.1
77.5°	1085.4	1219.8	1560.2	2756.9	4963.5	5906.8	5579.1	4034.3	2723.6	2036.3	1917.3
80°	378.9	398.1	497.9	1032.9	2685.2	3783.4	3519.8	2338.4	1455.3	1061.0	1017.5
82.5°	222.7	232.9	261.1	378.9	988.1	1797.0	1500.1	981.7	532.4	455.6	399.3
85°	75.5	80.6	135.7	194.5	350.7	519.6	467.2	252.1	206.1	184.3	119.0
87.5°	15.4	17.9	29.4	64.0	117.8	133.1	101.1	61.4	85.8	85.8	41.0
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°	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9
2.5°	1610.1	1598.6	1578.1	1558.9	1538.5	1523.1	1503.9	1488.5	1491.1	1482.1	1479.6
5°	1637.0	1612.7	1564.0	1512.9	1460.4	1410.5	1368.2	1333.7	1314.5	1304.2	1302.9
7.5°	1680.5	1643.4	1556.4	1462.9	1364.4	1296.5	1251.8	1230.0	1227.4	1224.9	1221.0
10°	1748.4	1689.5	1553.8	1404.1	1279.9	1221.0	1213.4	1228.7	1250.5	1262.0	1262.0
12.5°	1820.0	1744.5	1552.5	1343.9	1214.6	1195.4	1230.0	1273.5	1309.3	1326.0	1323.4
15°	1896.8	1799.6	1533.3	1276.1	1168.6	1196.7	1256.9	1304.2	1341.3	1356.7	1358.0
17.5°	1978.7	1849.5	1501.3	1201.8	1135.3	1194.2	1255.6	1296.5	1329.8	1341.3	1338.8
20°	2049.1	1894.3	1456.5	1126.3	1105.8	1169.8	1224.9	1255.6	1274.8	1277.3	1277.3
22.5°	2106.7	1926.3	1391.3	1055.9	1064.9	1127.6	1169.8	1186.5	1194.2	1198.0	1196.7
25°	2163.0	1948.0	1317.0	990.6	1016.2	1071.3	1102.0	1117.4	1122.5	1126.3	1128.9
27.5°	2201.4	1958.3	1230.0	919.0	959.9	1007.3	1036.7	1052.1	1063.6	1071.3	1071.3
30°	2228.3	1951.9	1139.1	865.2	911.3	951.0	985.5	1006.0	1022.6	1031.6	1032.9
32.5°	2253.9	1944.2	1047.0	811.5	862.7	904.9	944.6	975.3	998.3	1008.6	1012.4
35°	2273.1	1927.5	949.7	770.5	817.9	862.7	907.5	945.9	975.3	993.2	997.0
37.5°	2292.3	1910.9	860.1	727.0	779.5	828.1	879.3	916.4	951.0	975.3	983.0
40°	2319.2	1899.4	780.7	688.6	750.0	803.8	849.9	893.4	933.1	954.8	962.5
42.5°	2356.3	1891.7	712.9	660.4	727.0	788.4	837.1	893.4	942.0	952.3	957.4
45°	2406.2	1891.7	657.9	637.4	715.5	788.4	848.6	910.0	948.4	944.6	948.4
47.5°	2461.3	1891.7	614.4	616.9	710.3	798.7	866.5	940.7	981.7	993.2	1000.9
50°	2538.1	1891.7	579.8	599.0	701.4	815.3	926.7	1002.2	1026.5	1030.3	1032.9
52.5°	2622.5	1908.3	554.2	581.1	698.8	869.1	974.0	999.6	998.3	986.8	985.5
55°	2723.6	1937.8	531.2	560.6	707.8	879.3	943.3	951.0	926.7	904.9	899.8
57.5°	2826.0	1974.9	508.1	535.0	672.0	816.6	893.4	887.0	885.7	874.2	872.9
60°	2938.7	2017.1	482.5	492.8	600.3	756.4	825.5	875.5	889.5	878.0	875.5
62.5°	3021.9	2065.8	455.6	446.7	538.8	702.7	801.2	863.9	890.8	890.8	889.5
65°	3061.5	2090.1	430.0	404.5	486.4	646.4	778.2	831.9	865.2	874.2	871.6
67.5°	3015.5	2056.8	410.9	368.6	436.4	588.8	741.1	791.0	834.5	848.6	847.3
70°	2936.1	2029.9	395.5	331.5	392.9	527.3	704.0	757.7	801.2	825.5	823.0
72.5°	2763.3	1935.2	357.1	299.5	344.3	478.7	659.2	721.9	762.8	789.7	788.4
75°	2371.7	1701.0	298.2	270.1	291.8	431.3	610.5	680.9	710.3	735.9	734.7
77.5°	1748.4	1278.6	234.2	227.8	244.5	381.4	549.1	618.2	641.2	660.4	656.6
80°	921.5	748.7	184.3	186.9	202.2	328.9	487.6	540.1	559.3	569.6	561.9
82.5°	401.9	323.8	137.0	148.5	158.7	263.7	401.9	448.0	460.8	453.1	431.3
85°	128.0	88.3	81.9	97.3	107.5	175.3	312.3	348.1	369.9	346.9	341.7
87.5°	32.0	29.4	34.6	49.9	56.3	97.3	212.5	220.1	249.6	76.8	71.7
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)