

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: P1209099

Luminaire Tested: UPW-SA2-090-750-U-SL4

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209099
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-SA2-090-750-U-SL4
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 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: 11639 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

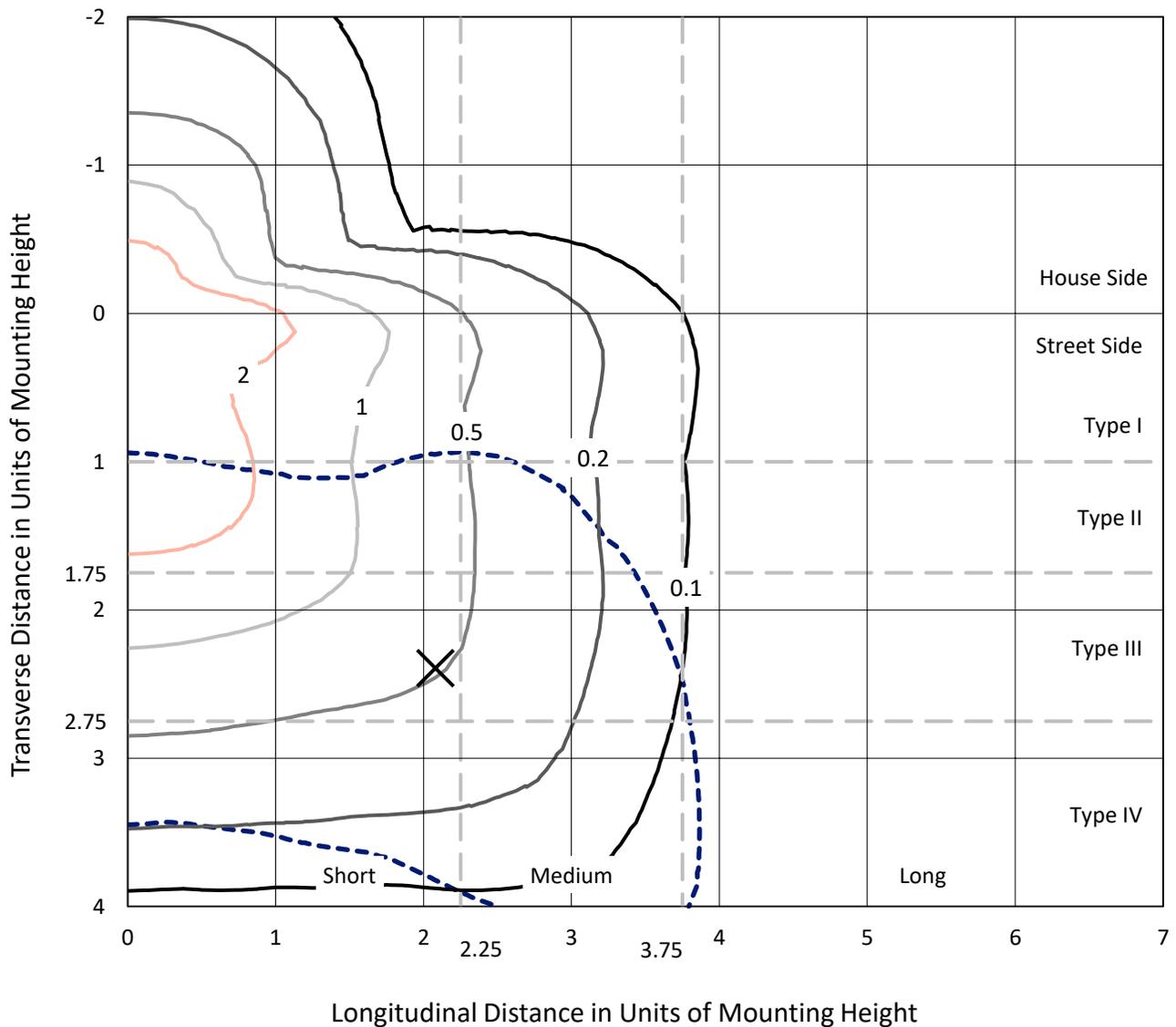


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

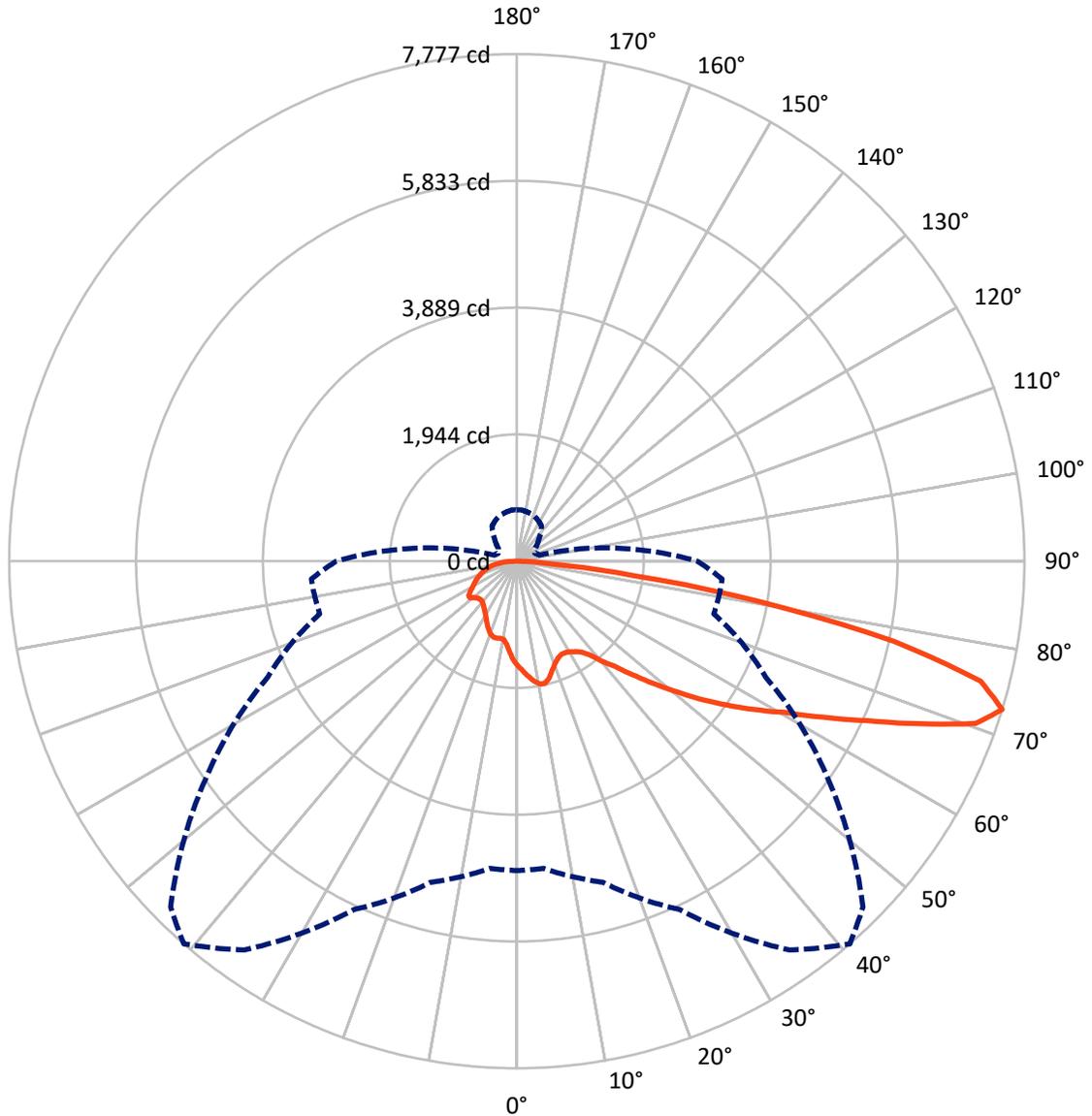


Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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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	2518.5	0.0	2518.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9120.5	0.0	9120.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	11639.0	0.0	11639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	1.3
10°-20°	459.7	3.9
20°-30°	706.5	6.1
30°-40°	971.2	8.3
40°-50°	1479.9	12.7
50°-60°	2185.5	18.8
60°-70°	2870.1	24.7
70°-80°	2459.1	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°	11639.0	100.0
0°-180°	11639.0	100.0

Coefficient of Utilization



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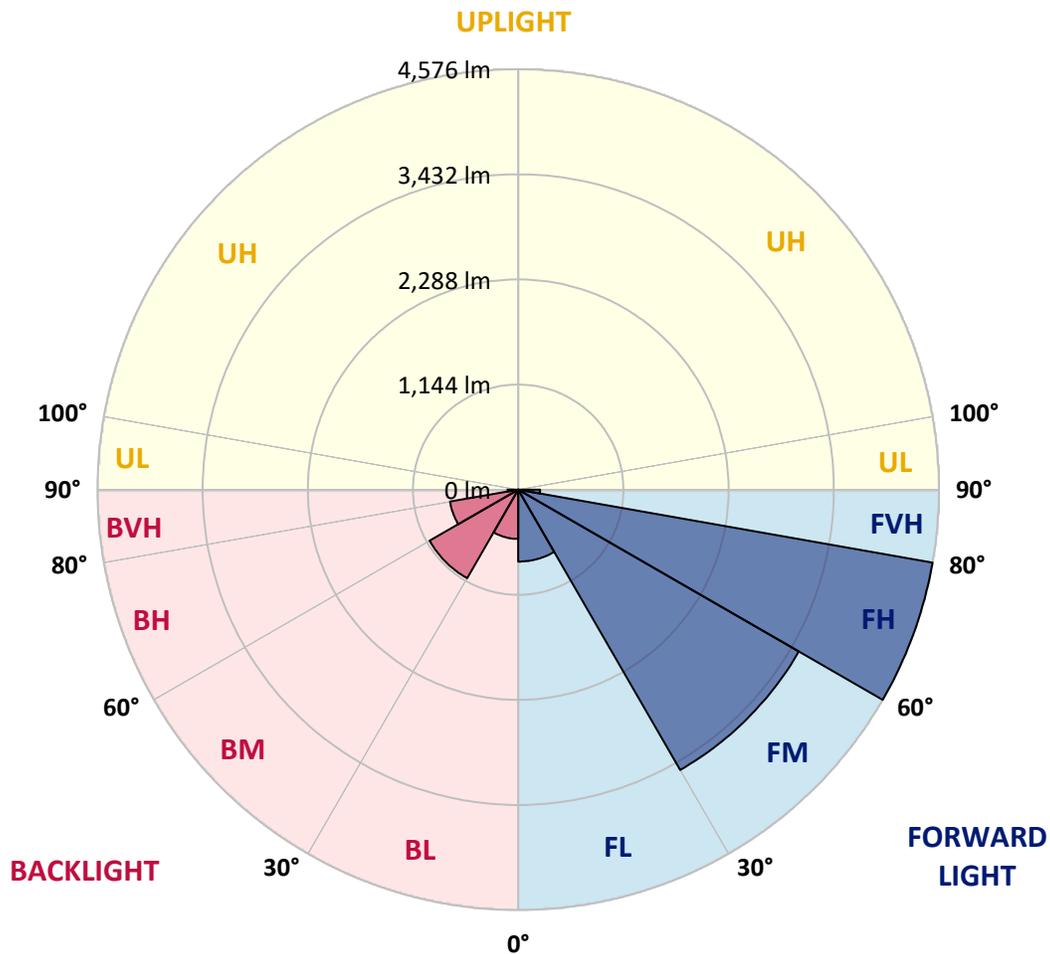
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	782.8	6.7			
FM	(30°-60°)	3523.5	30.3			
FH	(60°-80°)	4576.2	39.3			G2/5000
FVH	(80°-90°)	238.0	2.0			G3/500
BL	(0°-30°)	536.0	4.6	B2/1000		
BM	(30°-60°)	1113.1	9.6	B2/2500		
BH	(60°-80°)	753.1	6.5	B2/1000		G2/1000
BVH	(80°-90°)	116.3	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°	1599.7	1599.7	1599.7	1599.7	1599.7	1599.7	1599.7	1599.7	1599.7	1599.7	1599.7
2.5°	1703.4	1698.3	1698.3	1694.5	1688.1	1679.1	1677.8	1666.3	1654.8	1638.1	1621.5
5°	1802.0	1794.3	1791.7	1786.6	1780.2	1767.4	1768.7	1748.2	1723.9	1691.9	1658.6
7.5°	1872.3	1867.2	1865.9	1867.2	1858.3	1851.9	1851.9	1827.6	1803.2	1768.7	1717.5
10°	1896.7	1890.3	1895.4	1906.9	1915.9	1914.6	1921.0	1912.0	1894.1	1864.7	1793.0
12.5°	1853.1	1853.1	1855.7	1871.1	1900.5	1923.5	1944.0	1981.1	1997.8	1972.2	1882.6
15°	1786.6	1782.8	1778.9	1785.3	1821.2	1859.5	1903.1	2002.9	2075.8	2074.6	1977.3
17.5°	1746.9	1744.4	1717.5	1691.9	1711.1	1755.9	1810.9	1970.9	2125.7	2168.0	2072.0
20°	1723.9	1718.8	1686.8	1635.6	1627.9	1674.0	1716.2	1905.6	2133.4	2257.6	2161.6
22.5°	1704.7	1702.1	1661.2	1593.4	1574.2	1612.5	1656.1	1826.3	2105.3	2316.4	2240.9
25°	1713.7	1708.5	1657.3	1576.7	1553.7	1585.7	1624.1	1763.6	2055.4	2349.7	2304.9
27.5°	1757.2	1757.2	1689.3	1593.4	1563.9	1585.7	1615.1	1729.0	2001.6	2358.7	2363.8
30°	1857.0	1853.1	1767.4	1650.9	1603.6	1612.5	1633.0	1717.5	1949.1	2342.0	2402.2
32.5°	2032.3	2019.5	1913.3	1754.6	1662.5	1653.5	1657.3	1709.8	1895.4	2312.6	2439.3
35°	2351.0	2316.4	2153.9	1937.6	1767.4	1712.4	1697.0	1717.5	1863.4	2292.1	2473.9
37.5°	2775.9	2727.3	2526.3	2220.5	1949.1	1831.4	1778.9	1754.6	1858.3	2267.8	2507.1
40°	3180.3	3150.9	2912.8	2555.8	2184.6	2019.5	1933.8	1810.9	1864.7	2252.4	2553.2
42.5°	3696.1	3648.7	3372.3	2907.7	2443.1	2205.1	2081.0	1886.4	1905.6	2262.7	2605.7
45°	4251.5	4242.5	3898.3	3340.3	2765.6	2480.3	2322.8	2028.5	1985.0	2303.6	2683.7
47.5°	4851.7	4810.8	4449.9	3843.2	3131.7	2788.7	2594.2	2192.3	2098.9	2372.7	2787.4
50°	5362.4	5332.9	4961.8	4307.8	3531.0	3126.5	2900.0	2390.7	2240.9	2466.2	2896.2
52.5°	5635.0	5613.2	5385.4	4796.7	3940.5	3509.2	3182.9	2598.0	2418.8	2582.6	3015.2
55°	5569.7	5556.9	5555.6	5165.3	4387.2	3894.4	3505.4	2819.4	2623.6	2722.1	3156.0
57.5°	5551.8	5530.0	5541.5	5419.9	4812.0	4292.4	3863.7	3094.6	2879.5	2889.8	3303.2
60°	5569.7	5556.9	5622.2	5577.4	5211.3	4709.7	4280.9	3428.6	3147.0	3061.3	3435.0
62.5°	5736.1	5705.3	5756.5	5851.2	5646.5	5275.3	4808.2	3826.6	3443.9	3190.5	3537.4
65°	5990.7	5933.1	5949.8	6189.1	6159.7	5892.2	5434.0	4344.9	3722.9	3294.2	3584.7
67.5°	6063.7	6044.5	6088.0	6393.9	6699.7	6653.7	6227.5	4917.0	3995.5	3353.1	3531.0
70°	5762.9	5738.6	5933.1	6405.4	7230.9	7456.1	7060.7	5468.6	4228.5	3331.3	3408.1
72.5°	4744.2	4728.9	5098.7	5894.8	7279.5	7777.3	7500.9	5819.2	4209.3	3125.3	3158.5
75°	3069.0	3017.8	3611.6	4635.4	6532.1	7338.4	7142.6	5377.7	3687.1	2778.4	2720.9
77.5°	1085.3	1219.6	1560.1	2756.7	4963.1	5906.3	5578.6	4033.9	2723.4	2036.2	1917.1
80°	378.8	398.0	497.8	1032.8	2685.0	3783.1	3519.4	2338.2	1455.1	1061.0	1017.4
82.5°	222.7	232.9	261.1	378.8	988.0	1796.8	1499.9	981.6	532.4	455.6	399.3
85°	75.5	80.6	135.7	194.5	350.7	519.6	467.1	252.1	206.0	184.3	119.0
87.5°	15.4	17.9	29.4	64.0	117.7	133.1	101.1	61.4	85.7	85.7	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°	1599.7	1599.7	1599.7	1599.7	1599.7	1599.7	1599.7	1599.7	1599.7	1599.7	1599.7
2.5°	1610.0	1598.5	1578.0	1558.8	1538.3	1523.0	1503.8	1488.4	1491.0	1482.0	1479.4
5°	1636.9	1612.5	1563.9	1512.7	1460.3	1410.3	1368.1	1333.6	1314.4	1304.1	1302.8
7.5°	1680.4	1643.3	1556.2	1462.8	1364.3	1296.4	1251.6	1229.9	1227.3	1224.8	1220.9
10°	1748.2	1689.3	1553.7	1403.9	1279.8	1220.9	1213.2	1228.6	1250.4	1261.9	1261.9
12.5°	1819.9	1744.4	1552.4	1343.8	1214.5	1195.3	1229.9	1273.4	1309.2	1325.9	1323.3
15°	1896.7	1799.4	1533.2	1276.0	1168.5	1196.6	1256.8	1304.1	1341.2	1356.6	1357.9
17.5°	1978.6	1849.3	1501.2	1201.7	1135.2	1194.1	1255.5	1296.4	1329.7	1341.2	1338.7
20°	2049.0	1894.1	1456.4	1126.2	1105.7	1169.7	1224.8	1255.5	1274.7	1277.2	1277.2
22.5°	2106.5	1926.1	1391.1	1055.8	1064.8	1127.5	1169.7	1186.4	1194.1	1197.9	1196.6
25°	2162.9	1947.9	1316.9	990.6	1016.2	1071.2	1101.9	1117.3	1122.4	1126.2	1128.8
27.5°	2201.3	1958.1	1229.9	918.9	959.8	1007.2	1036.6	1052.0	1063.5	1071.2	1071.2
30°	2228.1	1951.7	1139.0	865.1	911.2	950.9	985.4	1005.9	1022.6	1031.5	1032.8
32.5°	2253.7	1944.0	1046.9	811.4	862.6	904.8	944.5	975.2	998.2	1008.5	1012.3
35°	2272.9	1927.4	949.6	770.4	817.8	862.6	907.4	945.8	975.2	993.1	997.0
37.5°	2292.1	1910.7	860.0	726.9	779.4	828.0	879.2	916.3	950.9	975.2	982.9
40°	2319.0	1899.2	780.7	688.5	750.0	803.7	849.8	893.3	933.0	954.7	962.4
42.5°	2356.1	1891.5	712.8	660.4	726.9	788.4	837.0	893.3	941.9	952.2	957.3
45°	2406.0	1891.5	657.8	637.3	715.4	788.4	848.5	909.9	948.3	944.5	948.3
47.5°	2461.1	1891.5	614.3	616.9	710.3	798.6	866.4	940.7	981.6	993.1	1000.8
50°	2537.8	1891.5	579.7	598.9	701.3	815.2	926.6	1002.1	1026.4	1030.2	1032.8
52.5°	2622.3	1908.2	554.2	581.0	698.8	869.0	973.9	999.5	998.2	986.7	985.4
55°	2723.4	1937.6	531.1	560.6	707.7	879.2	943.2	950.9	926.6	904.8	899.7
57.5°	2825.8	1974.7	508.1	535.0	671.9	816.5	893.3	886.9	885.6	874.1	872.8
60°	2938.4	2017.0	482.5	492.7	600.2	756.4	825.5	875.4	889.5	877.9	875.4
62.5°	3021.6	2065.6	455.6	446.6	538.8	702.6	801.2	863.9	890.7	890.7	889.5
65°	3061.3	2089.9	430.0	404.4	486.3	646.3	778.1	831.9	865.1	874.1	871.5
67.5°	3015.2	2056.6	410.8	368.6	436.4	588.7	741.0	790.9	834.4	848.5	847.2
70°	2935.9	2029.8	395.5	331.5	392.9	527.3	703.9	757.6	801.2	825.5	822.9
72.5°	2763.1	1935.1	357.1	299.5	344.3	478.6	659.1	721.8	762.8	789.6	788.4
75°	2371.5	1700.9	298.2	270.0	291.8	431.3	610.5	680.9	710.3	735.9	734.6
77.5°	1748.2	1278.5	234.2	227.8	244.4	381.4	549.0	618.1	641.2	660.4	656.5
80°	921.5	748.7	184.3	186.9	202.2	328.9	487.6	540.1	559.3	569.5	561.8
82.5°	401.9	323.8	136.9	148.5	158.7	263.6	401.9	447.9	460.7	453.0	431.3
85°	128.0	88.3	81.9	97.3	107.5	175.3	312.3	348.1	369.9	346.8	341.7
87.5°	32.0	29.4	34.6	49.9	56.3	97.3	212.4	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)