

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: P1209018

Luminaire Tested: UPW-SA2-090-730-U-SL4

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-5)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-730-U-SL4
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 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: 10598 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

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

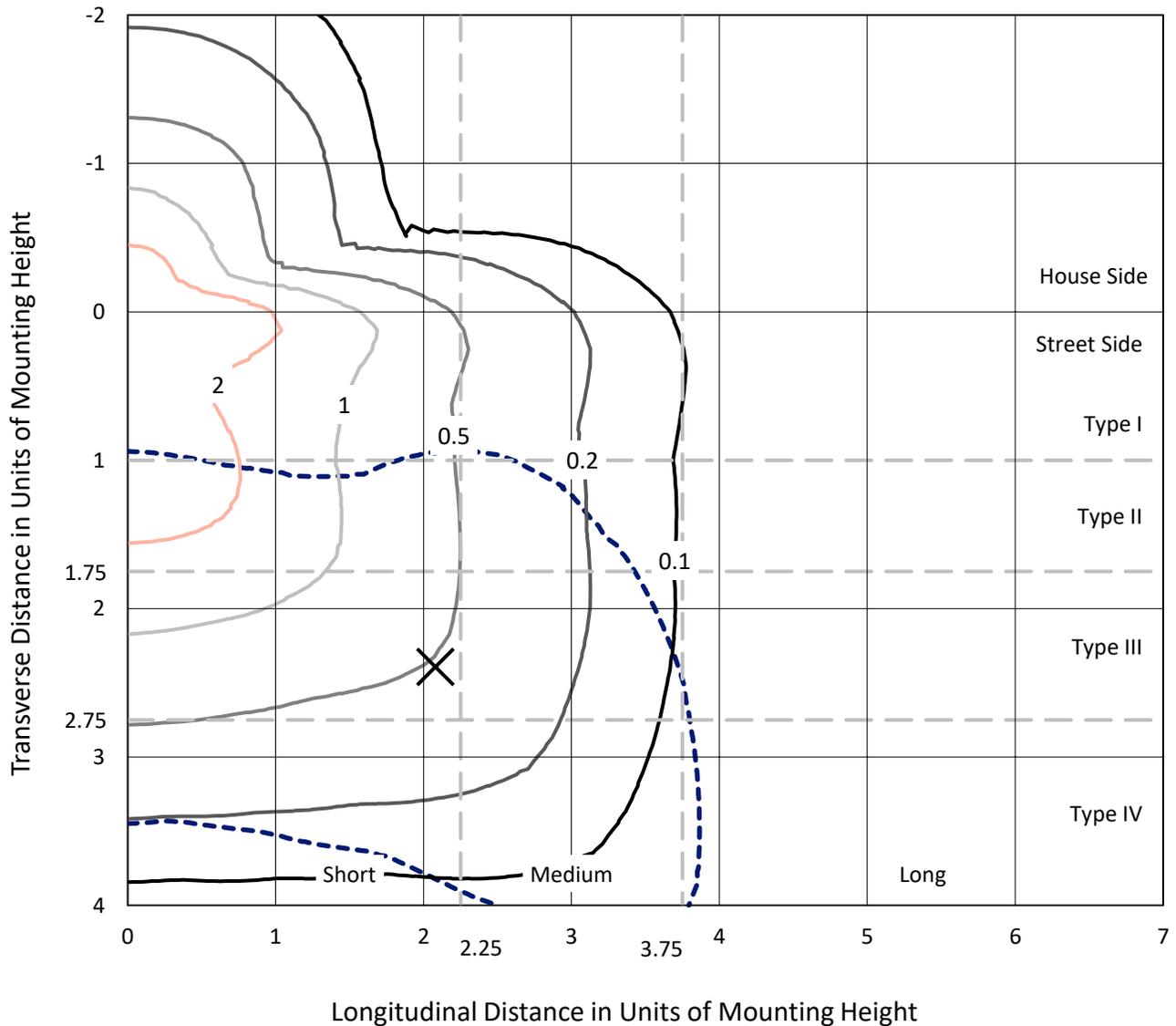


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

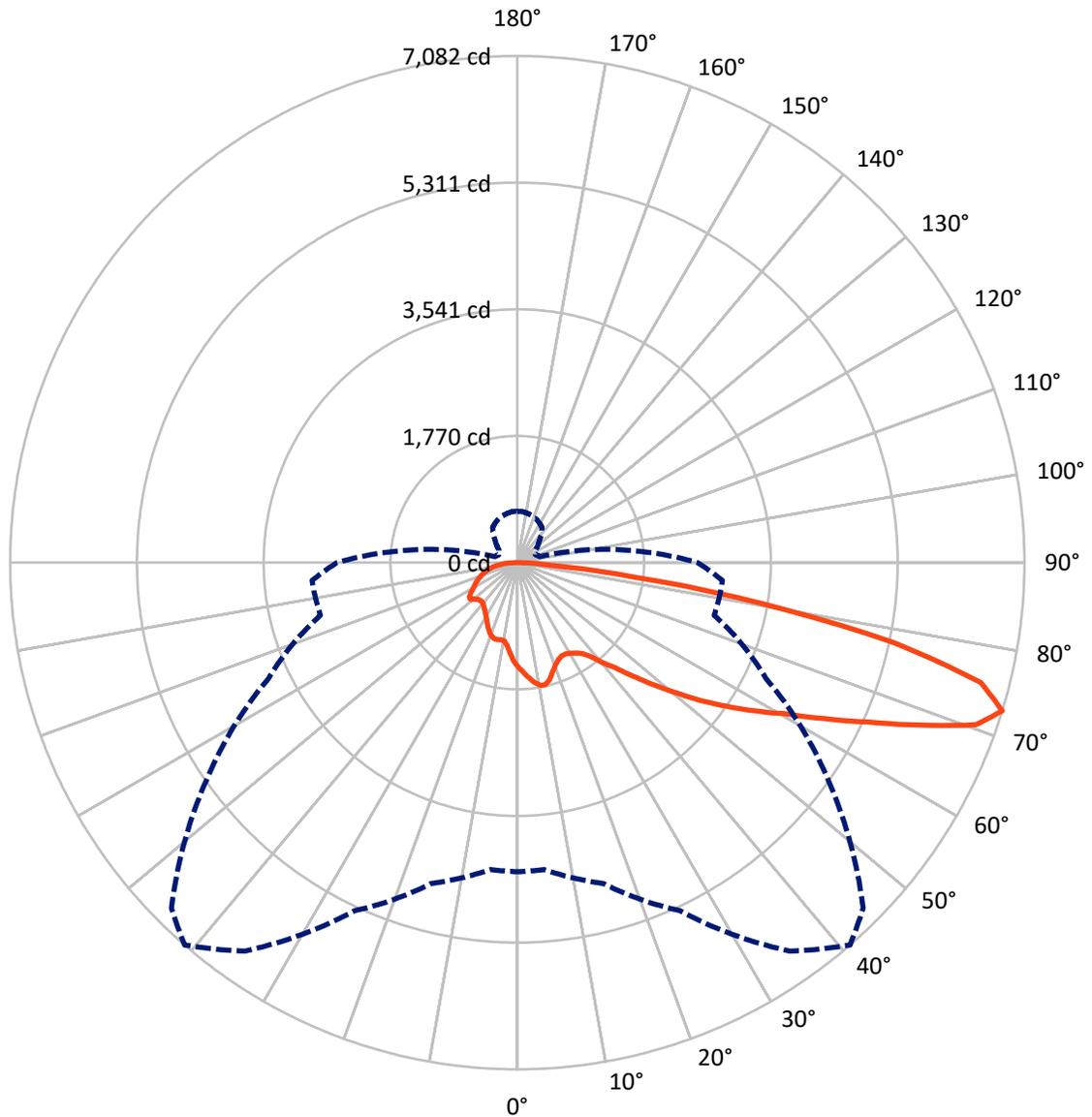


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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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	2293.3	0.0	2293.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	8304.7	0.0	8304.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	10598.0	0.0	10598.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	1.3
10°-20°	418.6	3.9
20°-30°	643.3	6.1
30°-40°	884.4	8.3
40°-50°	1347.5	12.7
50°-60°	1990.0	18.8
60°-70°	2613.4	24.7
70°-80°	2239.2	21.1
80°-90°	322.6	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°	10598.0	100.0
0°-180°	10598.0	100.0



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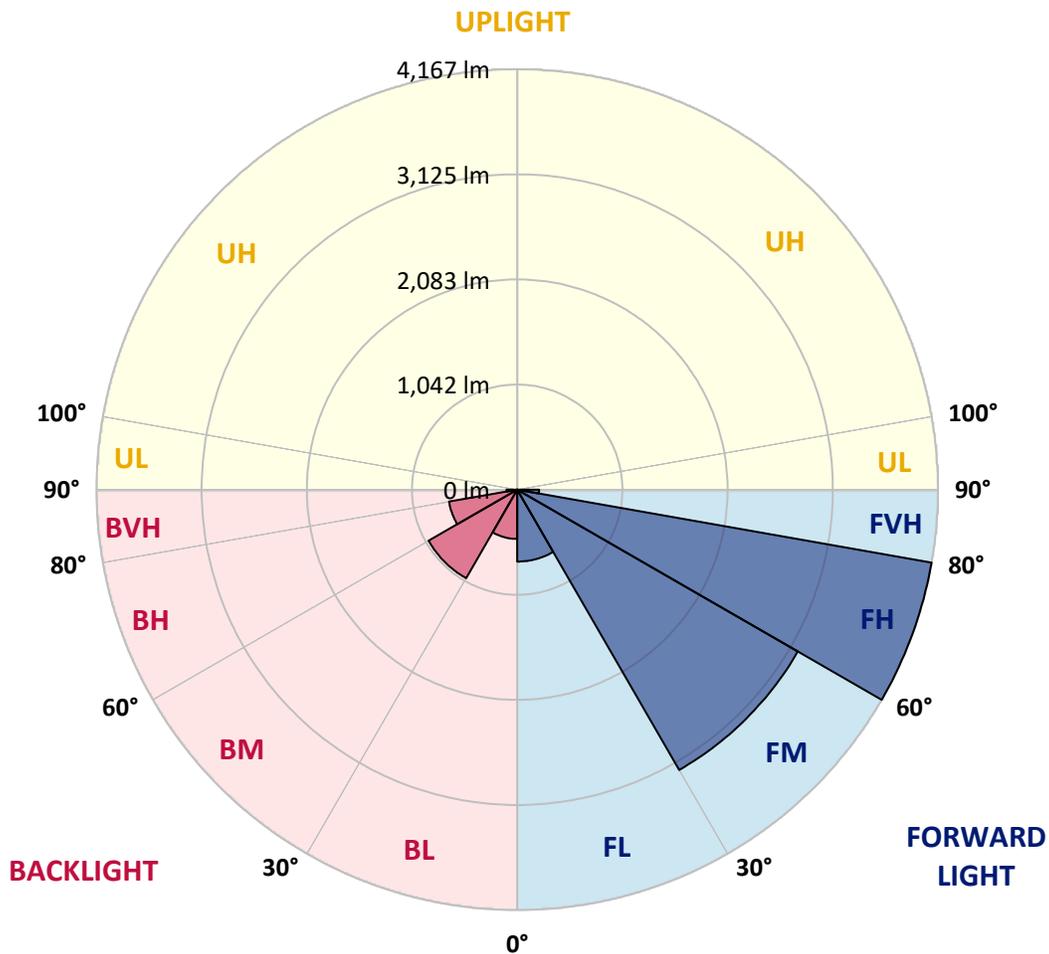
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	712.8	6.7			
FM	(30°-60°)	3208.4	30.3			
FH	(60°-80°)	4166.9	39.3			G2/5000
FVH	(80°-90°)	216.7	2.0			G2/225
BL	(0°-30°)	488.1	4.6	B1/500		
BM	(30°-60°)	1013.5	9.6	B2/2500		
BH	(60°-80°)	685.7	6.5	B2/1000		G2/1000
BVH	(80°-90°)	105.9	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7
2.5°	1551.1	1546.4	1546.4	1542.9	1537.1	1528.9	1527.8	1517.3	1506.8	1491.6	1476.5
5°	1640.8	1633.8	1631.5	1626.8	1621.0	1609.3	1610.5	1591.8	1569.7	1540.6	1510.3
7.5°	1704.9	1700.2	1699.1	1700.2	1692.1	1686.2	1686.2	1664.1	1642.0	1610.5	1563.9
10°	1727.0	1721.2	1725.9	1736.3	1744.5	1743.3	1749.2	1741.0	1724.7	1697.9	1632.6
12.5°	1687.4	1687.4	1689.7	1703.7	1730.5	1751.5	1770.1	1803.9	1819.1	1795.8	1714.2
15°	1626.8	1623.3	1619.8	1625.6	1658.3	1693.2	1732.9	1823.7	1890.2	1889.0	1800.4
17.5°	1590.7	1588.3	1563.9	1540.6	1558.1	1598.8	1648.9	1794.6	1935.6	1974.1	1886.7
20°	1569.7	1565.0	1535.9	1489.3	1482.3	1524.3	1562.7	1735.2	1942.6	2055.6	1968.2
22.5°	1552.2	1549.9	1512.6	1450.8	1433.4	1468.3	1507.9	1662.9	1917.0	2109.3	2040.5
25°	1560.4	1555.7	1509.1	1435.7	1414.7	1443.8	1478.8	1605.8	1871.5	2139.6	2098.8
27.5°	1600.0	1600.0	1538.2	1450.8	1424.0	1443.8	1470.7	1574.4	1822.6	2147.7	2152.4
30°	1690.9	1687.4	1609.3	1503.3	1460.2	1468.3	1487.0	1563.9	1774.8	2132.6	2187.3
32.5°	1850.5	1838.9	1742.2	1597.7	1513.8	1505.6	1509.1	1556.9	1725.9	2105.8	2221.1
35°	2140.7	2109.3	1961.3	1764.3	1609.3	1559.2	1545.2	1563.9	1696.7	2087.1	2252.6
37.5°	2527.6	2483.3	2300.4	2021.9	1774.8	1667.6	1619.8	1597.7	1692.1	2065.0	2282.9
40°	2895.9	2869.1	2652.3	2327.2	1989.2	1838.9	1760.8	1648.9	1697.9	2051.0	2324.8
42.5°	3365.5	3322.4	3070.7	2647.6	2224.6	2007.9	1894.8	1717.7	1735.2	2060.3	2372.6
45°	3871.2	3863.1	3549.6	3041.5	2518.3	2258.4	2115.1	1847.1	1807.4	2097.6	2443.7
47.5°	4417.8	4380.5	4051.9	3499.5	2851.6	2539.3	2362.1	1996.2	1911.1	2160.5	2538.1
50°	4882.7	4855.9	4518.0	3922.5	3215.2	2846.9	2640.6	2176.8	2040.5	2245.6	2637.1
52.5°	5131.0	5111.2	4903.7	4367.7	3588.1	3195.3	2898.2	2365.6	2202.5	2351.6	2745.5
55°	5071.5	5059.9	5058.7	4703.3	3994.8	3546.1	3191.8	2567.2	2388.9	2478.7	2873.7
57.5°	5055.2	5035.4	5045.9	4935.2	4381.7	3908.5	3518.1	2817.8	2622.0	2631.3	3007.7
60°	5071.5	5059.9	5119.3	5078.5	4745.2	4288.4	3898.0	3121.9	2865.6	2787.5	3127.8
62.5°	5223.0	5195.1	5241.7	5327.9	5141.4	4803.5	4378.2	3484.3	3135.9	2905.2	3221.0
65°	5454.9	5402.5	5417.6	5635.6	5608.7	5365.2	4948.0	3956.3	3390.0	2999.6	3264.1
67.5°	5521.3	5503.9	5543.5	5822.0	6100.5	6058.6	5670.5	4477.2	3638.2	3053.2	3215.2
70°	5247.5	5225.4	5402.5	5832.5	6584.1	6789.2	6429.1	4979.5	3850.3	3033.4	3103.3
72.5°	4319.9	4305.9	4642.7	5367.5	6628.4	7081.7	6830.0	5298.8	3832.8	2845.7	2876.0
75°	2794.5	2747.9	3288.6	4220.8	5947.9	6682.0	6503.7	4896.7	3357.3	2529.9	2477.5
77.5°	988.2	1110.6	1420.5	2510.1	4519.2	5378.0	5079.7	3673.1	2479.8	1854.0	1745.7
80°	344.9	362.4	453.3	940.4	2444.9	3444.7	3204.7	2129.1	1325.0	966.1	926.4
82.5°	202.8	212.1	237.7	344.9	899.6	1636.1	1365.8	893.8	484.8	414.9	363.6
85°	68.8	73.4	123.5	177.1	319.3	473.1	425.3	229.6	187.6	167.8	108.4
87.5°	14.0	16.3	26.8	58.3	107.2	121.2	92.1	55.9	78.1	78.1	37.3
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°	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7	1456.7
2.5°	1466.0	1455.5	1436.9	1419.4	1400.7	1386.7	1369.3	1355.3	1357.6	1349.5	1347.1
5°	1490.5	1468.3	1424.0	1377.4	1329.6	1284.2	1245.7	1214.3	1196.8	1187.5	1186.3
7.5°	1530.1	1496.3	1417.0	1332.0	1242.2	1180.5	1139.7	1119.9	1117.6	1115.2	1111.7
10°	1591.8	1538.2	1414.7	1278.4	1165.3	1111.7	1104.7	1118.7	1138.5	1149.0	1149.0
12.5°	1657.1	1588.3	1413.5	1223.6	1105.9	1088.4	1119.9	1159.5	1192.1	1207.3	1205.0
15°	1727.0	1638.5	1396.1	1161.8	1063.9	1089.6	1144.4	1187.5	1221.3	1235.3	1236.4
17.5°	1801.6	1683.9	1366.9	1094.2	1033.7	1087.3	1143.2	1180.5	1210.8	1221.3	1218.9
20°	1865.7	1724.7	1326.1	1025.5	1006.8	1065.1	1115.2	1143.2	1160.7	1163.0	1163.0
22.5°	1918.1	1753.8	1266.7	961.4	969.6	1026.7	1065.1	1080.3	1087.3	1090.8	1089.6
25°	1969.4	1773.6	1199.1	902.0	925.3	975.4	1003.4	1017.3	1022.0	1025.5	1027.8
27.5°	2004.4	1783.0	1119.9	836.7	874.0	917.1	943.9	957.9	968.4	975.4	975.4
30°	2028.8	1777.1	1037.1	787.8	829.7	865.8	897.3	916.0	931.1	939.3	940.4
32.5°	2052.2	1770.1	953.2	738.8	785.4	823.9	860.0	888.0	909.0	918.3	921.8
35°	2069.6	1755.0	864.7	701.5	744.6	785.4	826.2	861.2	888.0	904.3	907.8
37.5°	2087.1	1739.8	783.1	661.9	709.7	754.0	800.6	834.4	865.8	888.0	895.0
40°	2111.6	1729.4	710.9	626.9	682.9	731.8	773.8	813.4	849.5	869.3	876.3
42.5°	2145.4	1722.4	649.1	601.3	661.9	717.8	762.1	813.4	857.7	867.0	871.7
45°	2190.8	1722.4	599.0	580.3	651.4	717.8	772.6	828.6	863.5	860.0	863.5
47.5°	2240.9	1722.4	559.4	561.7	646.8	727.2	788.9	856.5	893.8	904.3	911.3
50°	2310.9	1722.4	527.9	545.4	638.6	742.3	843.7	912.5	934.6	938.1	940.4
52.5°	2387.8	1737.5	504.6	529.1	636.3	791.3	886.8	910.1	909.0	898.5	897.3
55°	2479.8	1764.3	483.6	510.4	644.4	800.6	858.9	865.8	843.7	823.9	819.2
57.5°	2573.1	1798.1	462.6	487.1	611.8	743.5	813.4	807.6	806.4	795.9	794.8
60°	2675.6	1836.6	439.3	448.7	546.5	688.7	751.6	797.1	809.9	799.4	797.1
62.5°	2751.4	1880.8	414.9	406.7	490.6	639.8	729.5	786.6	811.1	811.1	809.9
65°	2787.5	1903.0	391.6	368.2	442.8	588.5	708.5	757.5	787.8	795.9	793.6
67.5°	2745.5	1872.7	374.1	335.6	397.4	536.1	674.7	720.2	759.8	772.6	771.5
70°	2673.3	1848.2	360.1	301.8	357.8	480.1	640.9	689.9	729.5	751.6	749.3
72.5°	2516.0	1762.0	325.1	272.7	313.5	435.8	600.1	657.2	694.5	719.0	717.8
75°	2159.4	1548.7	271.5	245.9	265.7	392.7	555.9	620.0	646.8	670.1	668.9
77.5°	1591.8	1164.2	213.3	207.4	222.6	347.3	499.9	562.9	583.8	601.3	597.8
80°	839.0	681.7	167.8	170.1	184.1	299.5	444.0	491.8	509.3	518.6	511.6
82.5°	365.9	294.8	124.7	135.2	144.5	240.1	365.9	407.9	419.5	412.5	392.7
85°	116.5	80.4	74.6	88.6	97.9	159.7	284.3	317.0	336.8	315.8	311.1
87.5°	29.1	26.8	31.5	45.4	51.3	88.6	193.4	200.4	227.2	69.9	65.3
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)