

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: P1209396

Luminaire Tested: UPW-SA2-110-827-U-SL4

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209396  
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-SA2-110-827-U-SL4  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 80 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: 10590 lumens  
Efficiency: N/A  
Efficacy: 95.4 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): 111  
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

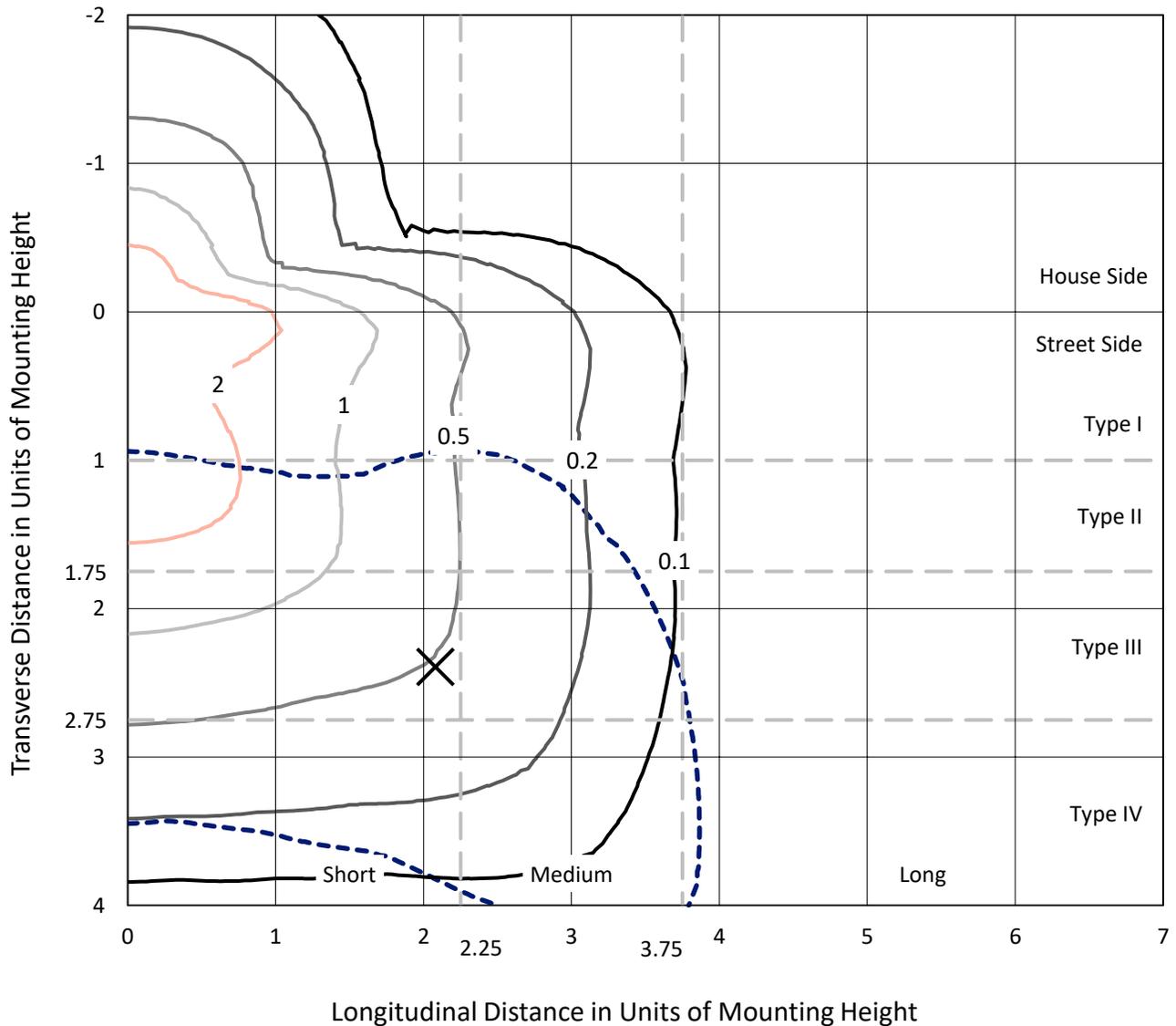


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

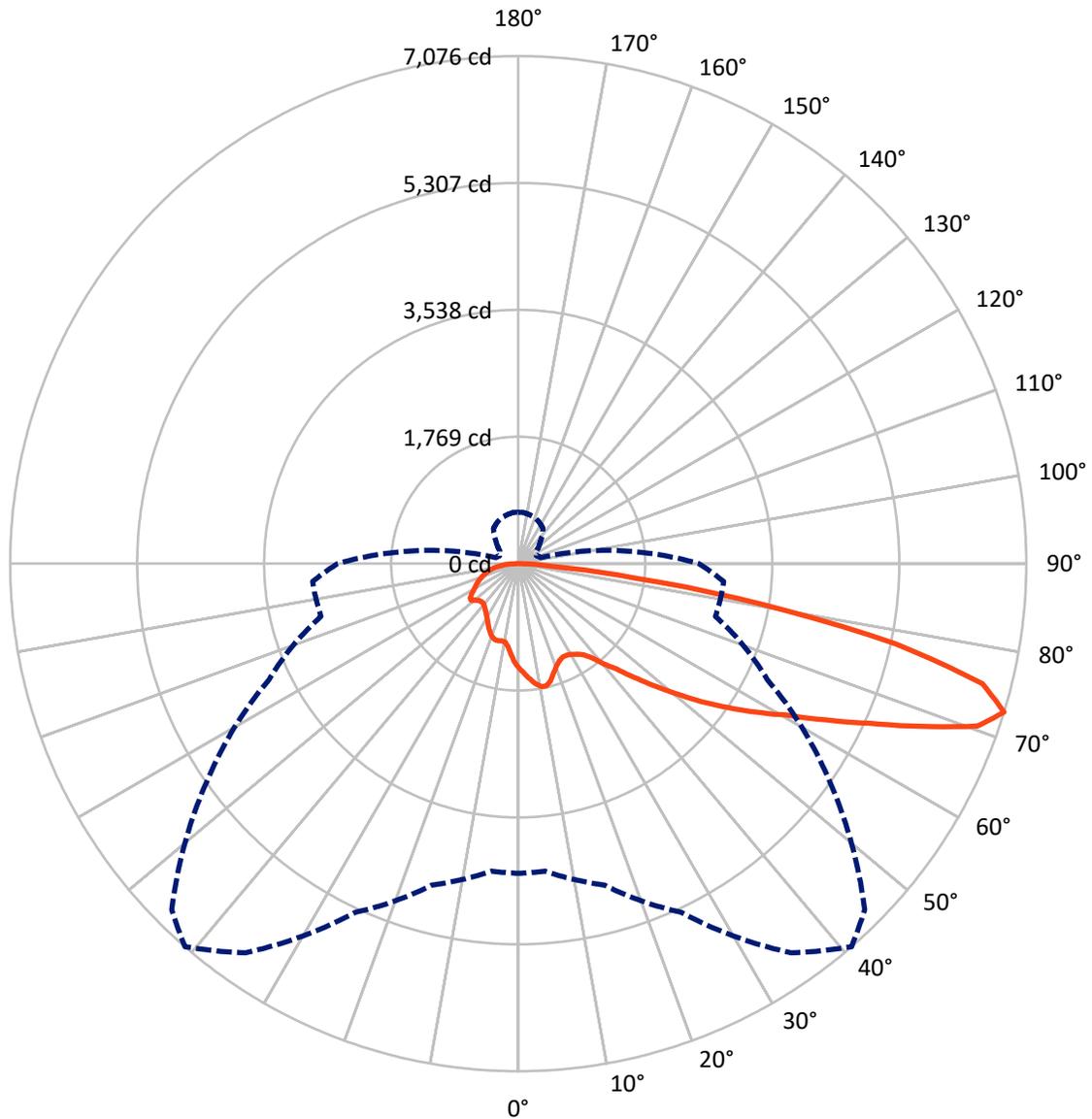


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

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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
<b>House Side</b>	Lumens	2291.5	0.0	2291.5
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	8298.5	0.0	8298.5
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	10590.0	0.0	10590.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.9	1.3
10°-20°	418.2	3.9
20°-30°	642.8	6.1
30°-40°	883.7	8.3
40°-50°	1346.5	12.7
50°-60°	1988.5	18.8
60°-70°	2611.5	24.7
70°-80°	2237.5	21.1
80°-90°	322.4	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°	10590.0	100.0
0°-180°	10590.0	100.0

**Coefficient of Utilization**



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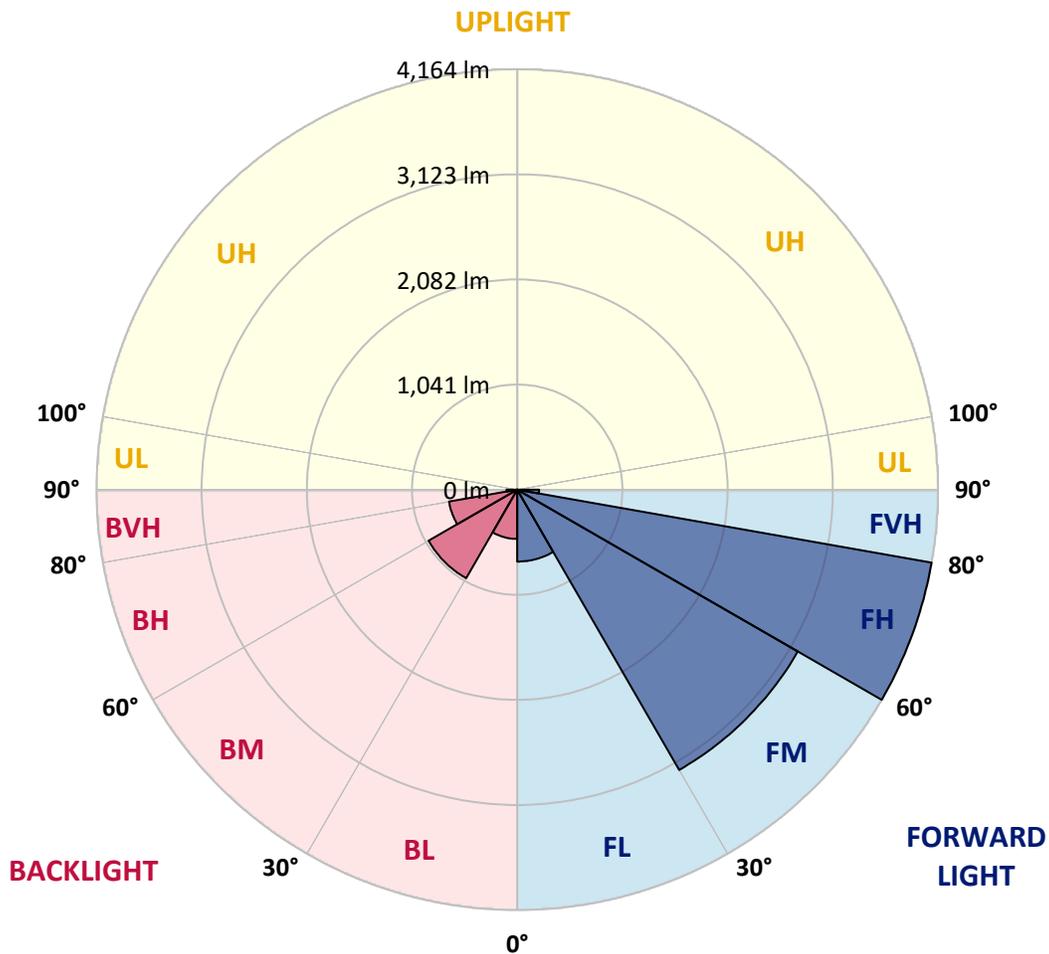
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	712.2	6.7			
FM	(30°-60°)	3206.0	30.3			
FH	(60°-80°)	4163.8	39.3			G2/5000
FVH	(80°-90°)	216.5	2.0			G2/225
BL	(0°-30°)	487.7	4.6	B1/500		
BM	(30°-60°)	1012.8	9.6	B2/2500		
BH	(60°-80°)	685.2	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°	1455.6	1455.6	1455.6	1455.6	1455.6	1455.6	1455.6	1455.6	1455.6	1455.6	1455.6
2.5°	1549.9	1545.2	1545.2	1541.7	1535.9	1527.8	1526.6	1516.1	1505.6	1490.5	1475.4
5°	1639.6	1632.6	1630.2	1625.6	1619.8	1608.1	1609.3	1590.6	1568.5	1539.4	1509.1
7.5°	1703.6	1698.9	1697.8	1698.9	1690.8	1685.0	1685.0	1662.8	1640.7	1609.3	1562.7
10°	1725.7	1719.9	1724.6	1735.0	1743.2	1742.0	1747.8	1739.7	1723.4	1696.6	1631.4
12.5°	1686.1	1686.1	1688.5	1702.4	1729.2	1750.2	1768.8	1802.6	1817.7	1794.4	1712.9
15°	1625.6	1622.1	1618.6	1624.4	1657.0	1692.0	1731.5	1822.4	1888.7	1887.6	1799.1
17.5°	1589.5	1587.2	1562.7	1539.4	1556.9	1597.6	1647.7	1793.3	1934.2	1972.6	1885.3
20°	1568.5	1563.9	1534.7	1488.2	1481.2	1523.1	1561.5	1733.9	1941.1	2054.1	1966.8
22.5°	1551.1	1548.7	1511.5	1449.7	1432.3	1467.2	1506.8	1661.7	1915.5	2107.7	2039.0
25°	1559.2	1554.5	1508.0	1434.6	1413.6	1442.8	1477.7	1604.6	1870.1	2137.9	2097.2
27.5°	1598.8	1598.8	1537.1	1449.7	1423.0	1442.8	1469.5	1573.2	1821.2	2146.1	2150.7
30°	1689.6	1686.1	1608.1	1502.1	1459.1	1467.2	1485.8	1562.7	1773.5	2130.9	2185.7
32.5°	1849.2	1837.5	1740.9	1596.5	1512.6	1504.5	1508.0	1555.7	1724.6	2104.2	2219.4
35°	2139.1	2107.7	1959.8	1763.0	1608.1	1558.0	1544.1	1562.7	1695.4	2085.5	2250.9
37.5°	2525.7	2481.5	2298.6	2020.3	1773.5	1666.3	1618.6	1596.5	1690.8	2063.4	2281.2
40°	2893.7	2866.9	2650.3	2325.4	1987.7	1837.5	1759.5	1647.7	1696.6	2049.4	2323.1
42.5°	3362.9	3319.9	3068.3	2645.6	2222.9	2006.4	1893.4	1716.4	1733.9	2058.8	2370.8
45°	3868.3	3860.2	3546.9	3039.2	2516.4	2256.7	2113.5	1845.7	1806.1	2096.0	2441.9
47.5°	4414.4	4377.2	4048.8	3496.9	2849.4	2537.3	2360.3	1994.7	1909.7	2158.9	2536.2
50°	4879.1	4852.3	4514.6	3919.6	3212.7	2844.8	2638.7	2175.2	2039.0	2243.9	2635.2
52.5°	5127.1	5107.3	4900.0	4364.4	3585.4	3192.9	2896.0	2363.8	2200.8	2349.9	2743.5
55°	5067.7	5056.1	5054.9	4699.7	3991.7	3543.4	3189.4	2565.3	2387.1	2476.8	2871.5
57.5°	5051.4	5031.6	5042.1	4931.5	4378.3	3905.6	3515.5	2815.6	2620.0	2629.3	3005.5
60°	5067.7	5056.1	5115.4	5074.7	4741.7	4285.2	3895.1	3119.6	2863.4	2785.4	3125.4
62.5°	5219.1	5191.1	5237.7	5323.9	5137.6	4799.9	4374.9	3481.7	3133.5	2903.0	3218.5
65°	5450.8	5398.4	5413.5	5631.3	5604.5	5361.1	4944.3	3953.3	3387.4	2997.3	3261.6
67.5°	5517.2	5499.7	5539.3	5817.6	6095.9	6054.0	5666.2	4473.8	3635.4	3050.9	3212.7
70°	5243.5	5221.4	5398.4	5828.1	6579.2	6784.1	6424.3	4975.7	3847.4	3031.1	3100.9
72.5°	4316.6	4302.7	4639.2	5363.5	6623.4	7076.4	6824.9	5294.8	3829.9	2843.6	2873.9
75°	2792.4	2745.8	3286.1	4217.7	5943.4	6677.0	6498.8	4893.0	3354.8	2528.0	2475.6
77.5°	987.5	1109.7	1419.5	2508.2	4515.8	5374.0	5075.9	3670.4	2478.0	1852.6	1744.4
80°	344.7	362.1	453.0	939.7	2443.0	3442.1	3202.2	2127.5	1324.0	965.3	925.7
82.5°	202.6	211.9	237.5	344.7	899.0	1634.9	1364.7	893.1	484.4	414.5	363.3
85°	68.7	73.4	123.4	177.0	319.1	472.8	425.0	229.4	187.5	167.7	108.3
87.5°	14.0	16.3	26.8	58.2	107.1	121.1	92.0	55.9	78.0	78.0	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°	1455.6	1455.6	1455.6	1455.6	1455.6	1455.6	1455.6	1455.6	1455.6	1455.6	1455.6
2.5°	1464.9	1454.4	1435.8	1418.3	1399.7	1385.7	1368.2	1354.3	1356.6	1348.4	1346.1
5°	1489.3	1467.2	1423.0	1376.4	1328.6	1283.2	1244.8	1213.4	1195.9	1186.6	1185.4
7.5°	1528.9	1495.2	1416.0	1331.0	1241.3	1179.6	1138.8	1119.0	1116.7	1114.4	1110.9
10°	1590.6	1537.1	1413.6	1277.4	1164.5	1110.9	1103.9	1117.9	1137.7	1148.2	1148.2
12.5°	1655.9	1587.2	1412.5	1222.7	1105.1	1087.6	1119.0	1158.6	1191.2	1206.4	1204.0
15°	1725.7	1637.2	1395.0	1161.0	1063.1	1088.8	1143.5	1186.6	1220.3	1234.3	1235.5
17.5°	1800.2	1682.6	1365.9	1093.4	1032.9	1086.4	1142.3	1179.6	1209.9	1220.3	1218.0
20°	1864.3	1723.4	1325.1	1024.7	1006.1	1064.3	1114.4	1142.3	1159.8	1162.1	1162.1
22.5°	1916.7	1752.5	1265.8	960.7	968.8	1025.9	1064.3	1079.4	1086.4	1089.9	1088.8
25°	1967.9	1772.3	1198.2	901.3	924.6	974.6	1002.6	1016.6	1021.2	1024.7	1027.0
27.5°	2002.9	1781.6	1119.0	836.1	873.3	916.4	943.2	957.2	967.7	974.6	974.6
30°	2027.3	1775.8	1036.4	787.2	829.1	865.2	896.6	915.3	930.4	938.5	939.7
32.5°	2050.6	1768.8	952.5	738.3	784.8	823.3	859.4	887.3	908.3	917.6	921.1
35°	2068.1	1753.7	864.0	701.0	744.1	784.8	825.6	860.5	887.3	903.6	907.1
37.5°	2085.5	1738.5	782.5	661.4	709.2	753.4	800.0	833.7	865.2	887.3	894.3
40°	2110.0	1728.0	710.3	626.5	682.4	731.3	773.2	812.8	848.9	868.7	875.7
42.5°	2143.8	1721.1	648.6	600.9	661.4	717.3	761.6	812.8	857.0	866.4	871.0
45°	2189.2	1721.1	598.5	579.9	650.9	717.3	772.0	827.9	862.9	859.4	862.9
47.5°	2239.2	1721.1	558.9	561.3	646.3	726.6	788.3	855.9	893.1	903.6	910.6
50°	2309.1	1721.1	527.5	545.0	638.1	741.8	843.1	911.8	933.9	937.4	939.7
52.5°	2386.0	1736.2	504.2	528.7	635.8	790.7	886.1	909.4	908.3	897.8	896.6
55°	2478.0	1763.0	483.2	510.0	643.9	800.0	858.2	865.2	843.1	823.3	818.6
57.5°	2571.1	1796.8	462.3	486.7	611.3	742.9	812.8	807.0	805.8	795.3	794.2
60°	2673.6	1835.2	439.0	448.3	546.1	688.2	751.1	796.5	809.3	798.8	796.5
62.5°	2749.3	1879.4	414.5	406.4	490.2	639.3	728.9	786.0	810.5	810.5	809.3
65°	2785.4	1901.6	391.3	368.0	442.5	588.0	708.0	756.9	787.2	795.3	793.0
67.5°	2743.5	1871.3	373.8	335.4	397.1	535.6	674.2	719.6	759.2	772.0	770.9
70°	2671.3	1846.8	359.8	301.6	357.5	479.8	640.4	689.4	728.9	751.1	748.7
72.5°	2514.1	1760.7	324.9	272.5	313.2	435.5	599.7	656.8	694.0	718.5	717.3
75°	2157.7	1547.6	271.3	245.7	265.5	392.4	555.4	619.5	646.3	669.6	668.4
77.5°	1590.6	1163.3	213.1	207.3	222.4	347.0	499.6	562.4	583.4	600.9	597.4
80°	838.4	681.2	167.7	170.0	184.0	299.3	443.7	491.4	508.9	518.2	511.2
82.5°	365.6	294.6	124.6	135.1	144.4	239.9	365.6	407.6	419.2	412.2	392.4
85°	116.4	80.3	74.5	88.5	97.8	159.5	284.1	316.7	336.5	315.6	310.9
87.5°	29.1	26.8	31.4	45.4	51.2	88.5	193.3	200.3	227.1	69.9	65.2
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)