

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: P1209261

Luminaire Tested: UPW-SA2-110-730-U-SL4

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209261  
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-SA2-110-730-U-SL4  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 3000K, 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: 13120 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

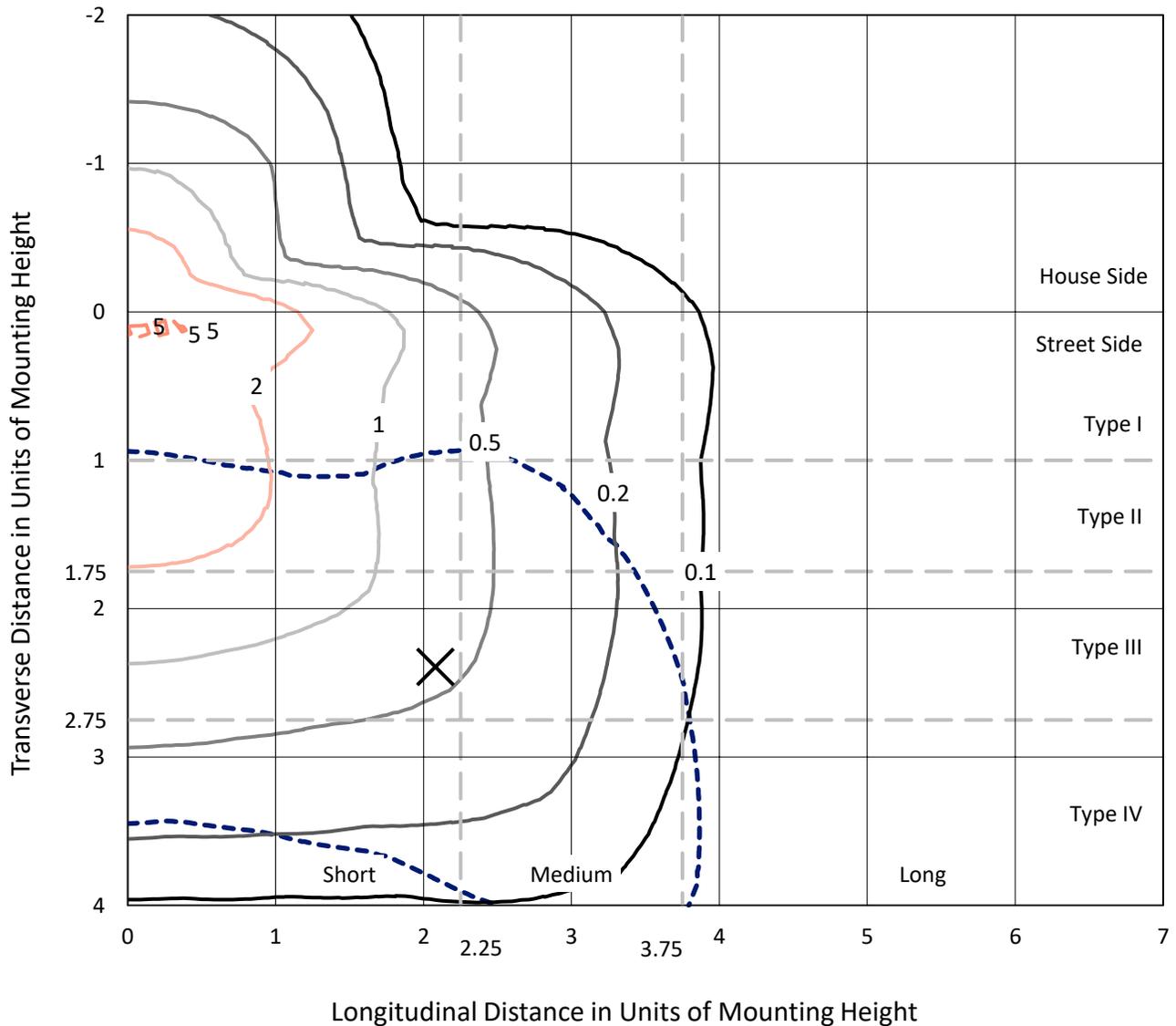
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

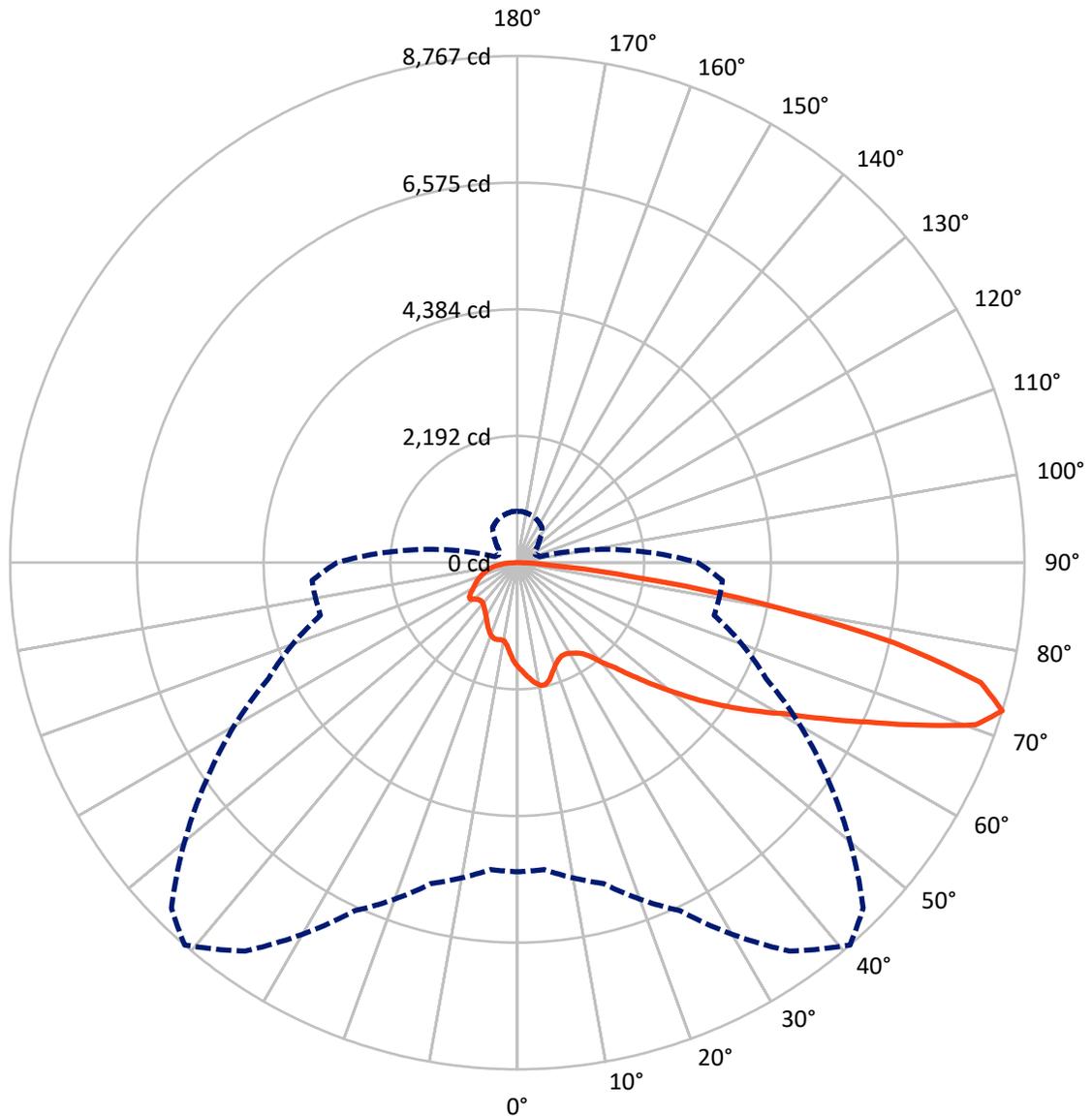
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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	2839.0	0.0	2839.0
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	10281.0	0.0	10281.0
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	13120.0	0.0	13120.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.0	1.3
10°-20°	518.2	3.9
20°-30°	796.4	6.1
30°-40°	1094.8	8.3
40°-50°	1668.2	12.7
50°-60°	2463.6	18.8
60°-70°	3235.4	24.7
70°-80°	2772.1	21.1
80°-90°	399.4	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°	13120.0	100.0
0°-180°	13120.0	100.0

**Coefficient of Utilization**



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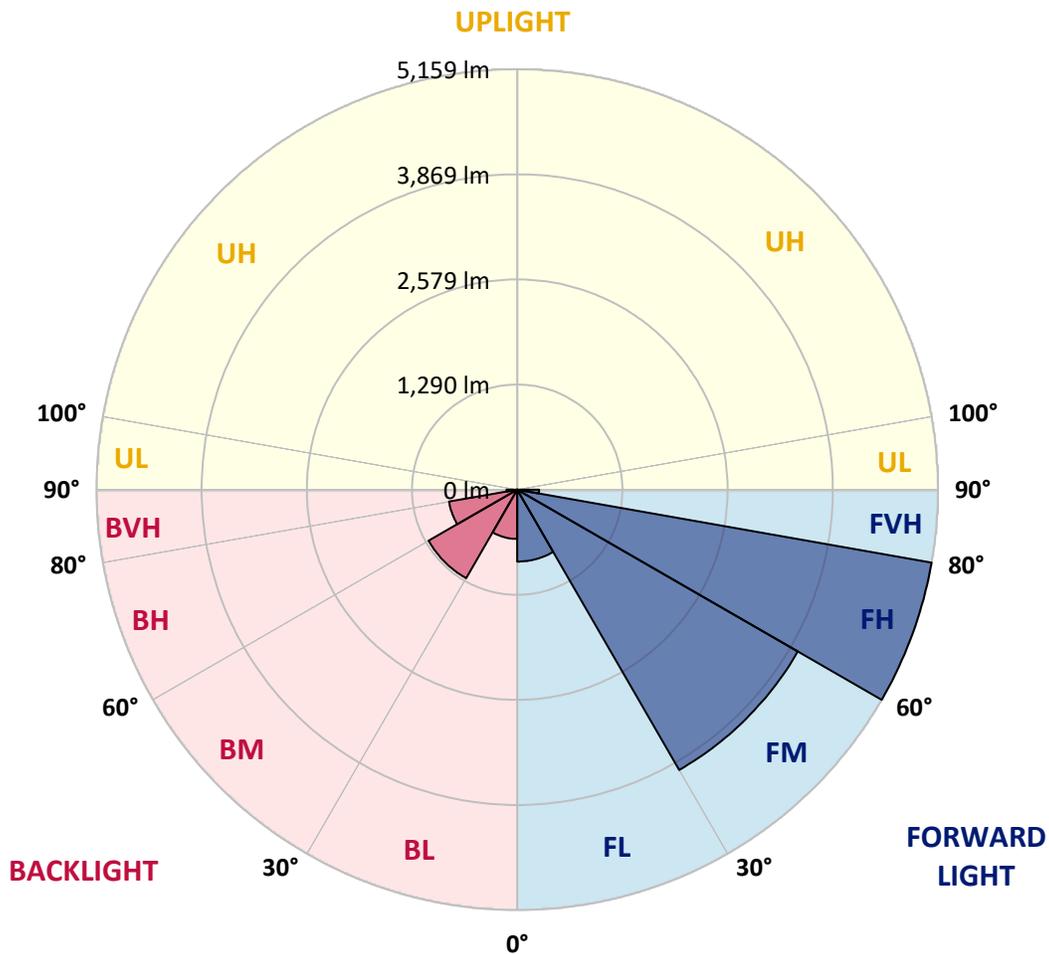
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	882.4	6.7			
FM (30°-60°)	3971.9	30.3			
FH (60°-80°)	5158.5	39.3			G3/7500
FVH (80°-90°)	268.3	2.0			G3/500
BL (0°-30°)	604.2	4.6	B2/1000		
BM (30°-60°)	1254.7	9.6	B2/2500		
BH (60°-80°)	848.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	131.1	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°	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3
2.5°	1920.2	1914.4	1914.4	1910.1	1902.9	1892.8	1891.3	1878.3	1865.3	1846.6	1827.8
5°	2031.2	2022.6	2019.7	2013.9	2006.7	1992.3	1993.7	1970.7	1943.2	1907.2	1869.7
7.5°	2110.6	2104.8	2103.4	2104.8	2094.7	2087.5	2087.5	2060.1	2032.7	1993.7	1936.0
10°	2138.0	2130.8	2136.6	2149.5	2159.6	2158.2	2165.4	2155.3	2135.1	2101.9	2021.1
12.5°	2089.0	2089.0	2091.8	2109.1	2142.3	2168.3	2191.4	2233.2	2252.0	2223.1	2122.1
15°	2013.9	2009.6	2005.3	2012.5	2052.9	2096.2	2145.2	2257.7	2340.0	2338.5	2228.9
17.5°	1969.2	1966.3	1936.0	1907.2	1928.8	1979.3	2041.3	2221.7	2396.2	2443.8	2335.6
20°	1943.2	1937.5	1901.4	1843.7	1835.0	1887.0	1934.6	2148.1	2404.9	2544.8	2436.6
22.5°	1921.6	1918.7	1872.6	1796.1	1774.5	1817.7	1866.8	2058.7	2373.2	2611.2	2526.1
25°	1931.7	1925.9	1868.2	1777.3	1751.4	1787.4	1830.7	1988.0	2316.9	2648.7	2598.2
27.5°	1980.8	1980.8	1904.3	1796.1	1762.9	1787.4	1820.6	1949.0	2256.3	2658.8	2664.6
30°	2093.3	2089.0	1992.3	1861.0	1807.6	1817.7	1840.8	1936.0	2197.2	2640.0	2707.8
32.5°	2290.9	2276.5	2156.8	1977.9	1874.0	1863.9	1868.2	1927.4	2136.6	2606.9	2749.7
35°	2650.1	2611.2	2428.0	2184.2	1992.3	1930.3	1912.9	1936.0	2100.5	2583.8	2788.6
37.5°	3129.1	3074.3	2847.8	2503.0	2197.2	2064.4	2005.3	1977.9	2094.7	2556.4	2826.1
40°	3585.0	3551.8	3283.5	2881.0	2462.6	2276.5	2179.8	2041.3	2101.9	2539.1	2878.1
42.5°	4166.4	4113.0	3801.4	3277.7	2754.0	2485.7	2345.7	2126.5	2148.1	2550.6	2937.2
45°	4792.5	4782.4	4394.3	3765.3	3117.6	2795.8	2618.4	2286.6	2237.5	2596.8	3025.2
47.5°	5469.1	5422.9	5016.1	4332.3	3530.2	3143.5	2924.2	2471.3	2365.9	2674.7	3142.1
50°	6044.7	6011.5	5593.1	4855.9	3980.3	3524.4	3269.0	2694.9	2526.1	2780.0	3264.7
52.5°	6352.0	6327.4	6070.7	5407.0	4441.9	3955.7	3587.9	2928.6	2726.6	2911.3	3398.9
55°	6278.4	6264.0	6262.5	5822.5	4945.4	4390.0	3951.4	3178.2	2957.4	3068.5	3557.6
57.5°	6258.2	6233.7	6246.7	6109.6	5424.4	4838.6	4355.4	3488.3	3246.0	3257.5	3723.5
60°	6278.4	6264.0	6337.5	6287.1	5874.5	5308.9	4825.7	3864.9	3547.5	3450.8	3872.1
62.5°	6465.9	6431.3	6489.0	6595.8	6365.0	5946.6	5420.0	4313.5	3882.2	3596.5	3987.5
65°	6753.0	6688.1	6706.9	6976.6	6943.5	6641.9	6125.5	4897.8	4196.7	3713.4	4040.9
67.5°	6835.3	6813.6	6862.7	7207.5	7552.3	7500.3	7019.9	5542.6	4503.9	3779.7	3980.3
70°	6496.2	6468.8	6688.1	7220.4	8151.0	8404.9	7959.1	6164.4	4766.5	3755.2	3841.8
72.5°	5347.9	5330.6	5747.5	6644.8	8205.8	8767.0	8455.4	6559.7	4744.9	3522.9	3560.5
75°	3459.5	3401.8	4071.1	5225.3	7363.3	8272.1	8051.4	6062.0	4156.3	3132.0	3067.1
77.5°	1223.4	1374.8	1758.6	3107.5	5594.6	6657.8	6288.5	4547.2	3070.0	2295.3	2161.1
80°	427.0	448.7	561.2	1164.2	3026.7	4264.5	3967.3	2635.7	1640.3	1196.0	1146.9
82.5°	251.0	262.6	294.3	427.0	1113.7	2025.5	1690.8	1106.5	600.1	513.6	450.1
85°	85.1	90.9	152.9	219.3	395.3	585.7	526.6	284.2	232.3	207.7	134.2
87.5°	17.3	20.2	33.2	72.1	132.7	150.0	114.0	69.2	96.7	96.7	46.2
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°	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3
2.5°	1814.8	1801.9	1778.8	1757.1	1734.1	1716.7	1695.1	1677.8	1680.7	1670.6	1667.7
5°	1845.1	1817.7	1762.9	1705.2	1646.1	1589.8	1542.2	1503.2	1481.6	1470.1	1468.6
7.5°	1894.2	1852.4	1754.3	1648.9	1537.9	1461.4	1410.9	1386.4	1383.5	1380.6	1376.3
10°	1970.7	1904.3	1751.4	1582.6	1442.6	1376.3	1367.6	1384.9	1409.5	1422.4	1422.4
12.5°	2051.4	1966.3	1749.9	1514.8	1369.1	1347.4	1386.4	1435.4	1475.8	1494.6	1491.7
15°	2138.0	2028.4	1728.3	1438.3	1317.1	1348.9	1416.7	1470.1	1511.9	1529.2	1530.6
17.5°	2230.3	2084.6	1692.2	1354.6	1279.6	1346.0	1415.2	1461.4	1498.9	1511.9	1509.0
20°	2309.7	2135.1	1641.7	1269.5	1246.4	1318.6	1380.6	1415.2	1436.9	1439.8	1439.8
22.5°	2374.6	2171.2	1568.2	1190.2	1200.3	1271.0	1318.6	1337.3	1346.0	1350.3	1348.9
25°	2438.1	2195.7	1484.5	1116.6	1145.5	1207.5	1242.1	1259.4	1265.2	1269.5	1272.4
27.5°	2481.4	2207.2	1386.4	1035.8	1082.0	1135.4	1168.5	1185.9	1198.8	1207.5	1207.5
30°	2511.6	2200.0	1284.0	975.2	1027.2	1071.9	1110.8	1133.9	1152.7	1162.8	1164.2
32.5°	2540.5	2191.4	1180.1	914.6	972.3	1020.0	1064.7	1099.3	1125.3	1136.8	1141.1
35°	2562.1	2172.6	1070.4	868.5	921.9	972.3	1022.8	1066.1	1099.3	1119.5	1123.8
37.5°	2583.8	2153.9	969.5	819.4	878.6	933.4	991.1	1032.9	1071.9	1099.3	1108.0
40°	2614.1	2140.9	880.0	776.1	845.4	906.0	957.9	1007.0	1051.7	1076.2	1084.9
42.5°	2655.9	2132.2	803.6	744.4	819.4	888.7	943.5	1007.0	1061.8	1073.3	1079.1
45°	2712.2	2132.2	741.5	718.4	806.4	888.7	956.5	1025.7	1069.0	1064.7	1069.0
47.5°	2774.2	2132.2	692.5	695.4	800.7	900.2	976.7	1060.3	1106.5	1119.5	1128.1
50°	2860.8	2132.2	653.5	675.2	790.6	919.0	1044.5	1129.6	1157.0	1161.3	1164.2
52.5°	2956.0	2151.0	624.7	655.0	787.7	979.6	1097.9	1126.7	1125.3	1112.3	1110.8
55°	3070.0	2184.2	598.7	631.9	797.8	991.1	1063.2	1071.9	1044.5	1020.0	1014.2
57.5°	3185.4	2226.0	572.7	603.0	757.4	920.4	1007.0	999.8	998.3	985.3	983.9
60°	3312.3	2273.6	543.9	555.4	676.6	852.6	930.5	986.8	1002.6	989.7	986.8
62.5°	3406.1	2328.4	513.6	503.5	607.4	792.0	903.1	973.8	1004.1	1004.1	1002.6
65°	3450.8	2355.8	484.7	455.9	548.2	728.5	877.1	937.7	975.2	985.3	982.4
67.5°	3398.9	2318.3	463.1	415.5	491.9	663.6	835.3	891.6	940.6	956.5	955.0
70°	3309.4	2288.0	445.8	373.6	442.9	594.4	793.5	854.0	903.1	930.5	927.6
72.5°	3114.7	2181.3	402.5	337.6	388.1	539.5	743.0	813.7	859.8	890.1	888.7
75°	2673.2	1917.3	336.1	304.4	328.9	486.2	688.1	767.5	800.7	829.5	828.1
77.5°	1970.7	1441.2	264.0	256.8	275.5	429.9	618.9	696.8	722.8	744.4	740.1
80°	1038.7	843.9	207.7	210.6	227.9	370.8	549.6	608.8	630.4	642.0	633.3
82.5°	453.0	365.0	154.4	167.3	178.9	297.2	453.0	504.9	519.4	510.7	486.2
85°	144.3	99.5	92.3	109.6	121.2	197.6	352.0	392.4	416.9	391.0	385.2
87.5°	36.1	33.2	39.0	56.3	63.5	109.6	239.5	248.1	281.3	86.6	80.8
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)