

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: P1209315

Luminaire Tested: UPW-SA2-110-740-U-SL4

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209315  
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-SA2-110-740-U-SL4  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 4000K, 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: 14405 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

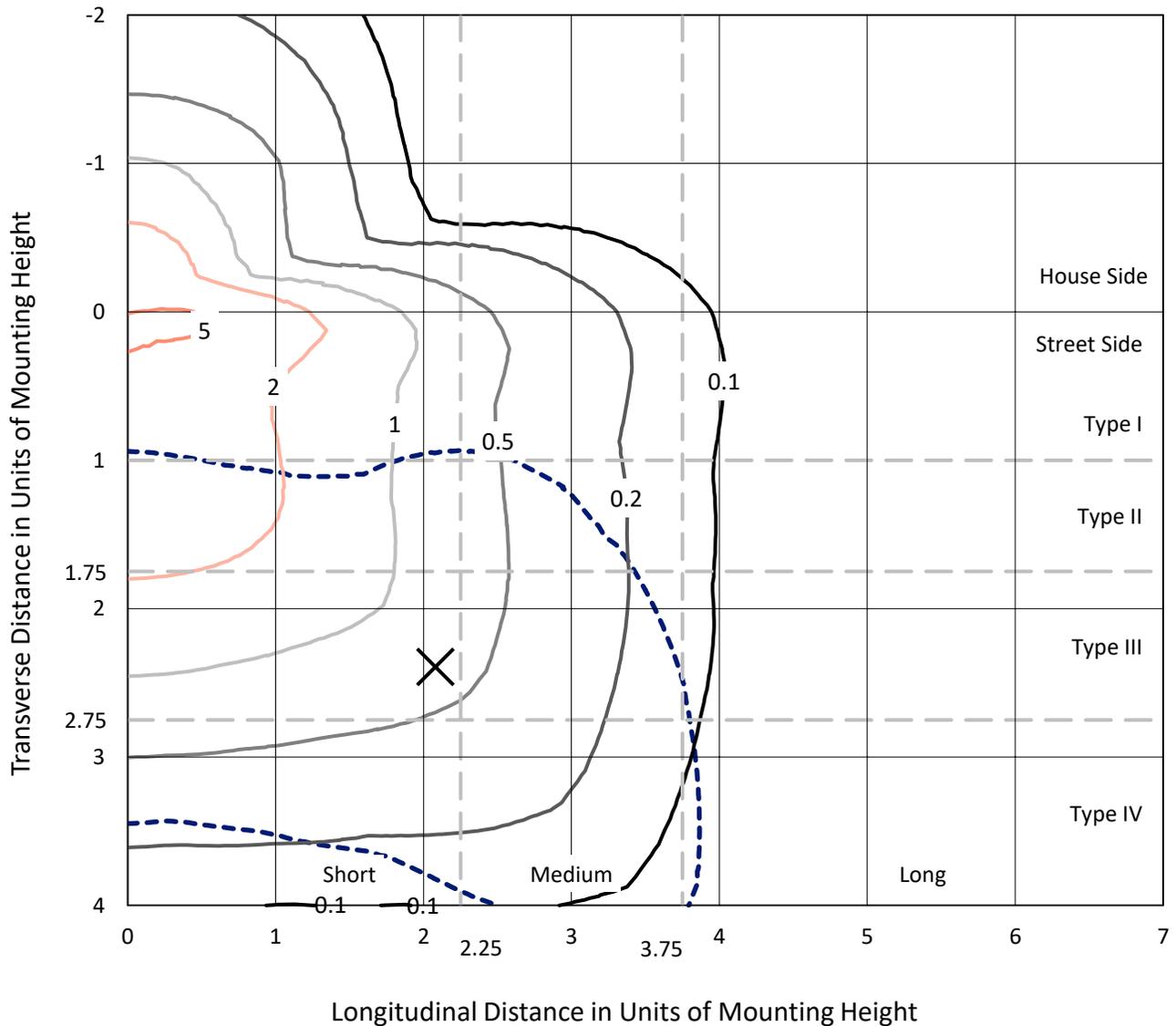
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

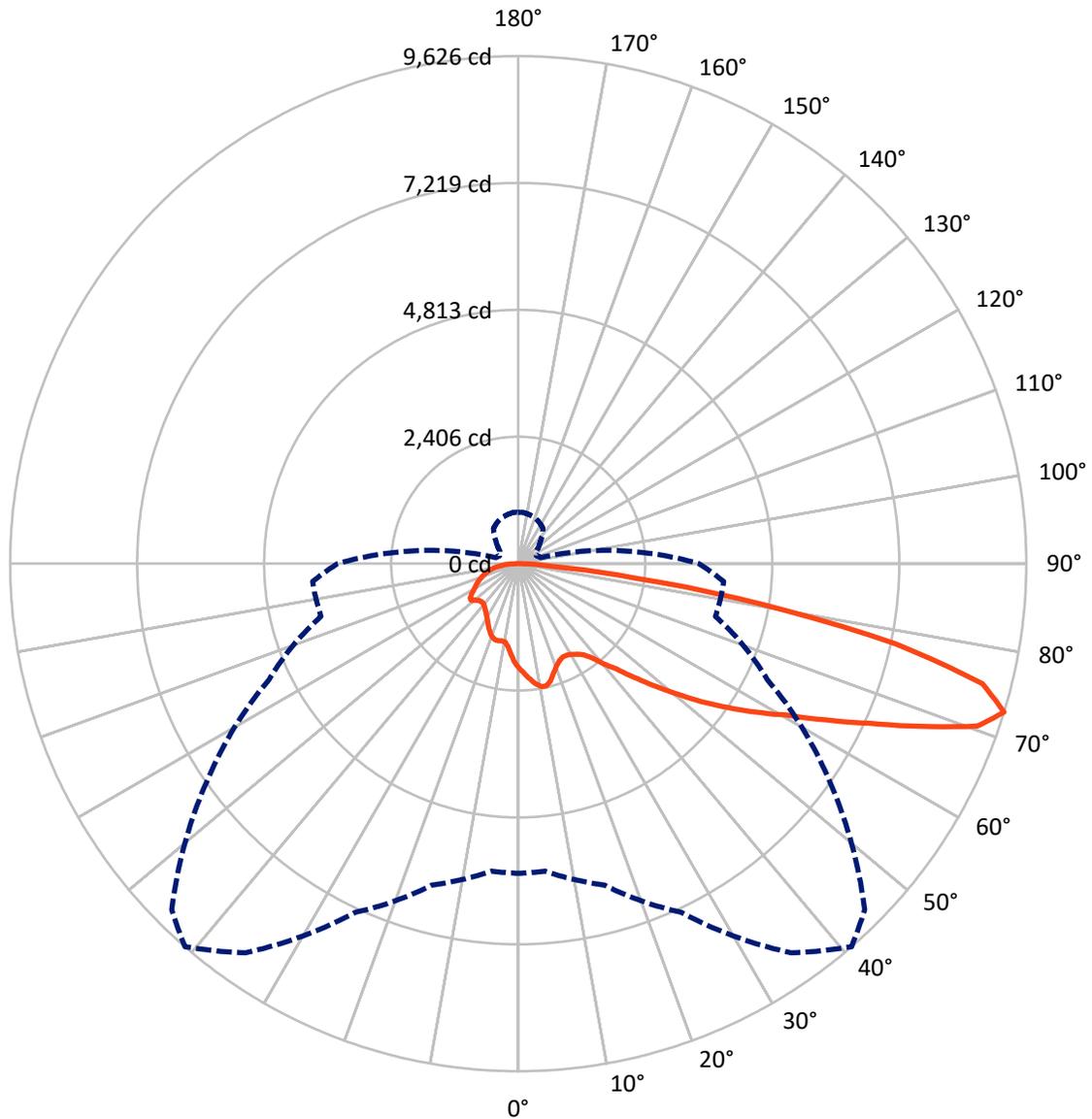
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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	3117.0	0.0	3117.0
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	11288.0	0.0	11288.0
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	14405.0	0.0	14405.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.9	1.3
10°-20°	568.9	3.9
20°-30°	874.4	6.1
30°-40°	1202.0	8.3
40°-50°	1831.6	12.7
50°-60°	2704.9	18.8
60°-70°	3552.2	24.7
70°-80°	3043.5	21.1
80°-90°	438.5	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°	14405.0	100.0
0°-180°	14405.0	100.0

**Coefficient of Utilization**



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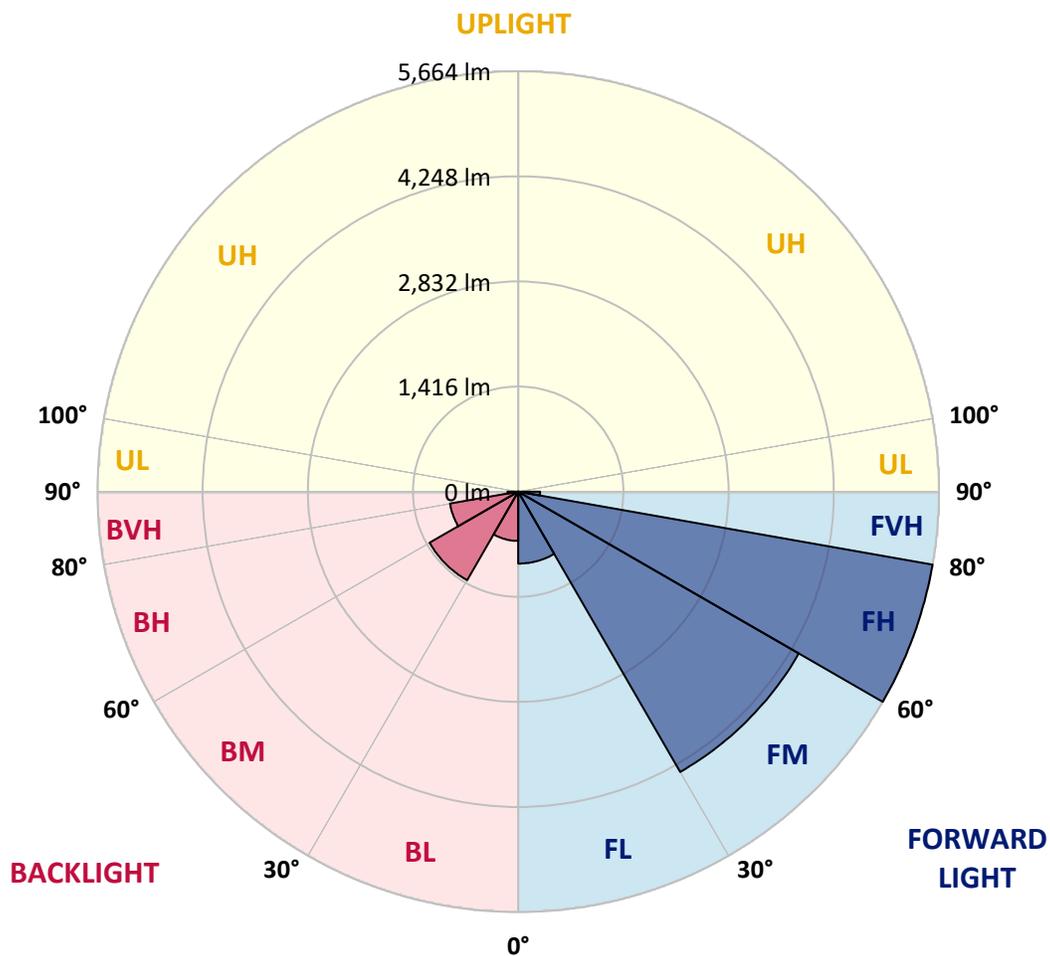
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	968.8	6.7			
FM	(30°-60°)	4360.9	30.3			
FH	(60°-80°)	5663.7	39.3			G3/7500
FVH	(80°-90°)	294.5	2.0			G3/500
BL	(0°-30°)	663.4	4.6	B2/1000		
BM	(30°-60°)	1377.6	9.6	B2/2500		
BH	(60°-80°)	932.0	6.5	B2/1000		G2/1000
BVH	(80°-90°)	144.0	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°	1979.9	1979.9	1979.9	1979.9	1979.9	1979.9	1979.9	1979.9	1979.9	1979.9	1979.9
2.5°	2108.2	2101.9	2101.9	2097.1	2089.2	2078.1	2076.5	2062.3	2048.0	2027.4	2006.9
5°	2230.2	2220.7	2217.5	2211.2	2203.3	2187.4	2189.0	2163.7	2133.6	2094.0	2052.8
7.5°	2317.3	2311.0	2309.4	2311.0	2299.9	2292.0	2292.0	2261.9	2231.8	2189.0	2125.7
10°	2347.4	2339.5	2345.8	2360.1	2371.2	2369.6	2377.5	2366.4	2344.2	2307.8	2219.1
12.5°	2293.5	2293.5	2296.7	2315.7	2352.2	2380.7	2406.0	2451.9	2472.5	2440.9	2330.0
15°	2211.2	2206.4	2201.7	2209.6	2254.0	2301.5	2355.3	2478.9	2569.2	2567.6	2447.2
17.5°	2162.1	2158.9	2125.7	2094.0	2117.7	2173.2	2241.3	2439.3	2630.9	2683.2	2564.4
20°	2133.6	2127.2	2087.6	2024.3	2014.8	2071.8	2124.1	2358.5	2640.4	2794.1	2675.3
22.5°	2109.8	2106.6	2056.0	1972.0	1948.2	1995.8	2049.6	2260.3	2605.6	2866.9	2773.5
25°	2120.9	2114.6	2051.2	1951.4	1922.9	1962.5	2010.0	2182.7	2543.8	2908.1	2852.7
27.5°	2174.8	2174.8	2090.8	1972.0	1935.6	1962.5	1998.9	2139.9	2477.3	2919.2	2925.5
30°	2298.3	2293.5	2187.4	2043.3	1984.7	1995.8	2021.1	2125.7	2412.3	2898.6	2973.1
32.5°	2515.3	2499.5	2368.0	2171.6	2057.5	2046.5	2051.2	2116.1	2345.8	2862.2	3019.0
35°	2909.7	2866.9	2665.8	2398.1	2187.4	2119.3	2100.3	2125.7	2306.2	2836.8	3061.8
37.5°	3435.6	3375.4	3126.7	2748.1	2412.3	2266.6	2201.7	2171.6	2299.9	2806.7	3102.9
40°	3936.1	3899.7	3605.1	3163.1	2703.8	2499.5	2393.3	2241.3	2307.8	2787.7	3160.0
42.5°	4574.4	4515.8	4173.7	3598.7	3023.7	2729.1	2575.5	2334.7	2358.5	2800.4	3224.9
45°	5261.9	5250.8	4824.7	4134.1	3422.9	3069.7	2874.9	2510.5	2456.7	2851.1	3321.5
47.5°	6004.7	5954.0	5507.4	4756.6	3875.9	3451.4	3210.7	2713.3	2597.7	2936.6	3449.8
50°	6636.7	6600.3	6140.9	5331.6	4370.1	3869.6	3589.2	2958.8	2773.5	3052.3	3584.5
52.5°	6974.1	6947.2	6665.2	5936.6	4877.0	4343.2	3939.3	3215.4	2993.7	3196.4	3731.8
55°	6893.3	6877.5	6875.9	6392.8	5429.8	4819.9	4338.4	3489.4	3247.1	3369.0	3906.0
57.5°	6871.1	6844.2	6858.5	6708.0	5955.6	5312.5	4781.9	3830.0	3563.9	3576.5	4088.2
60°	6893.3	6877.5	6958.3	6902.8	6449.8	5828.9	5298.3	4243.4	3894.9	3788.8	4251.3
62.5°	7099.2	7061.2	7124.6	7241.8	6988.4	6529.0	5950.9	4736.0	4262.4	3948.8	4378.0
65°	7414.4	7343.2	7363.7	7659.9	7623.5	7292.5	6725.4	5377.5	4607.7	4077.1	4436.6
67.5°	7504.7	7481.0	7534.8	7913.4	8291.9	8234.9	7707.5	6085.5	4945.1	4149.9	4370.1
70°	7132.5	7102.4	7343.2	7927.6	8949.3	9228.0	8738.6	6768.2	5233.3	4123.0	4218.0
72.5°	5871.7	5852.7	6310.4	7295.6	9009.5	9625.6	9283.5	7202.2	5209.6	3868.0	3909.2
75°	3798.3	3734.9	4469.9	5737.0	8084.4	9082.3	8840.0	6655.7	4563.3	3438.7	3367.5
77.5°	1343.2	1509.5	1930.8	3411.8	6142.5	7309.9	6904.4	4992.6	3370.6	2520.1	2372.7
80°	468.8	492.6	616.2	1278.2	3323.1	4682.1	4355.8	2893.9	1800.9	1313.1	1259.2
82.5°	275.6	288.3	323.1	468.8	1222.8	2223.9	1856.4	1214.9	658.9	563.9	494.2
85°	93.5	99.8	167.9	240.8	434.0	643.1	578.1	312.0	255.0	228.1	147.3
87.5°	19.0	22.2	36.4	79.2	145.7	164.7	125.1	76.0	106.1	106.1	50.7
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°	1979.9	1979.9	1979.9	1979.9	1979.9	1979.9	1979.9	1979.9	1979.9	1979.9	1979.9
2.5°	1992.6	1978.3	1953.0	1929.2	1903.9	1884.9	1861.1	1842.1	1845.3	1834.2	1831.0
5°	2025.9	1995.8	1935.6	1872.2	1807.3	1745.5	1693.2	1650.5	1626.7	1614.0	1612.5
7.5°	2079.7	2033.8	1926.1	1810.4	1688.5	1604.5	1549.1	1522.2	1519.0	1515.8	1511.1
10°	2163.7	2090.8	1922.9	1737.6	1583.9	1511.1	1501.6	1520.6	1547.5	1561.8	1561.8
12.5°	2252.4	2158.9	1921.3	1663.1	1503.2	1479.4	1522.2	1576.0	1620.4	1641.0	1637.8
15°	2347.4	2227.0	1897.6	1579.2	1446.1	1481.0	1555.4	1614.0	1660.0	1679.0	1680.6
17.5°	2448.8	2288.8	1858.0	1487.3	1405.0	1477.8	1553.8	1604.5	1645.7	1660.0	1656.8
20°	2535.9	2344.2	1802.5	1393.9	1368.5	1447.7	1515.8	1553.8	1577.6	1580.8	1580.8
22.5°	2607.2	2383.8	1721.7	1306.8	1317.8	1395.5	1447.7	1468.3	1477.8	1482.6	1481.0
25°	2676.9	2410.8	1629.9	1226.0	1257.7	1325.8	1363.8	1382.8	1389.1	1393.9	1397.0
27.5°	2724.4	2423.4	1522.2	1137.3	1188.0	1246.6	1283.0	1302.0	1316.3	1325.8	1325.8
30°	2757.6	2415.5	1409.7	1070.7	1127.8	1176.9	1219.6	1245.0	1265.6	1276.7	1278.2
32.5°	2789.3	2406.0	1295.7	1004.2	1067.6	1119.8	1168.9	1207.0	1235.5	1248.1	1252.9
35°	2813.1	2385.4	1175.3	953.5	1012.1	1067.6	1123.0	1170.5	1207.0	1229.1	1233.9
37.5°	2836.8	2364.8	1064.4	899.7	964.6	1024.8	1088.2	1134.1	1176.9	1207.0	1216.5
40°	2870.1	2350.6	966.2	852.2	928.2	994.7	1051.7	1105.6	1154.7	1181.6	1191.1
42.5°	2916.0	2341.1	882.3	817.3	899.7	975.7	1035.9	1105.6	1165.8	1178.5	1184.8
45°	2977.8	2341.1	814.1	788.8	885.4	975.7	1050.2	1126.2	1173.7	1168.9	1173.7
47.5°	3045.9	2341.1	760.3	763.5	879.1	988.4	1072.3	1164.2	1214.9	1229.1	1238.6
50°	3141.0	2341.1	717.5	741.3	868.0	1009.0	1146.8	1240.2	1270.3	1275.1	1278.2
52.5°	3245.5	2361.7	685.8	719.1	864.8	1075.5	1205.4	1237.1	1235.5	1221.2	1219.6
55°	3370.6	2398.1	657.3	693.8	875.9	1088.2	1167.4	1176.9	1146.8	1119.8	1113.5
57.5°	3497.3	2444.0	628.8	662.1	831.6	1010.6	1105.6	1097.7	1096.1	1081.8	1080.2
60°	3636.7	2496.3	597.1	609.8	742.9	936.1	1021.6	1083.4	1100.8	1086.6	1083.4
62.5°	3739.7	2556.5	563.9	552.8	666.8	869.6	991.5	1069.2	1102.4	1102.4	1100.8
65°	3788.8	2586.6	532.2	500.5	601.9	799.9	963.0	1029.6	1070.7	1081.8	1078.7
67.5°	3731.8	2545.4	508.4	456.2	540.1	728.6	917.1	978.9	1032.7	1050.2	1048.6
70°	3633.6	2512.1	489.4	410.2	486.3	652.6	871.2	937.7	991.5	1021.6	1018.5
72.5°	3419.7	2394.9	441.9	370.6	426.1	592.4	815.7	893.3	944.0	977.3	975.7
75°	2935.0	2105.1	369.1	334.2	361.1	533.8	755.5	842.7	879.1	910.8	909.2
77.5°	2163.7	1582.4	289.9	281.9	302.5	472.0	679.5	765.0	793.6	817.3	812.6
80°	1140.4	926.6	228.1	231.3	250.3	407.1	603.5	668.4	692.2	704.9	695.4
82.5°	497.4	400.7	169.5	183.7	196.4	326.3	497.4	554.4	570.2	560.7	533.8
85°	158.4	109.3	101.4	120.4	133.1	217.0	386.5	430.8	457.8	429.2	422.9
87.5°	39.6	36.4	42.8	61.8	69.7	120.4	262.9	272.4	308.9	95.0	88.7
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)