

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: P1209006

Luminaire Tested: UPW-SA2-090-727-U-T4FT

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-727-U-T4FT
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THRC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

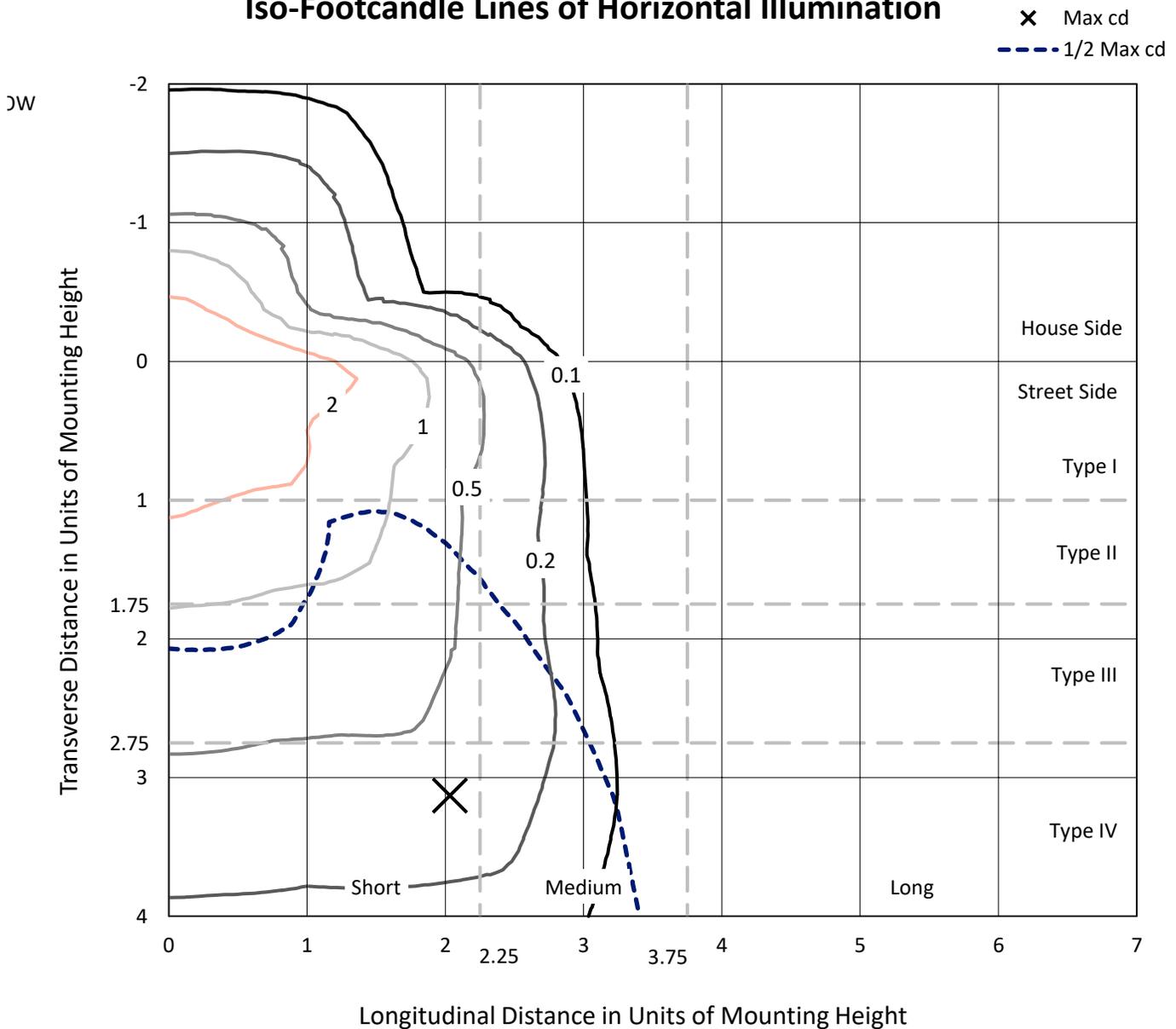
Lumens per Lamp: N/A
Luminaire Lumens: 10034 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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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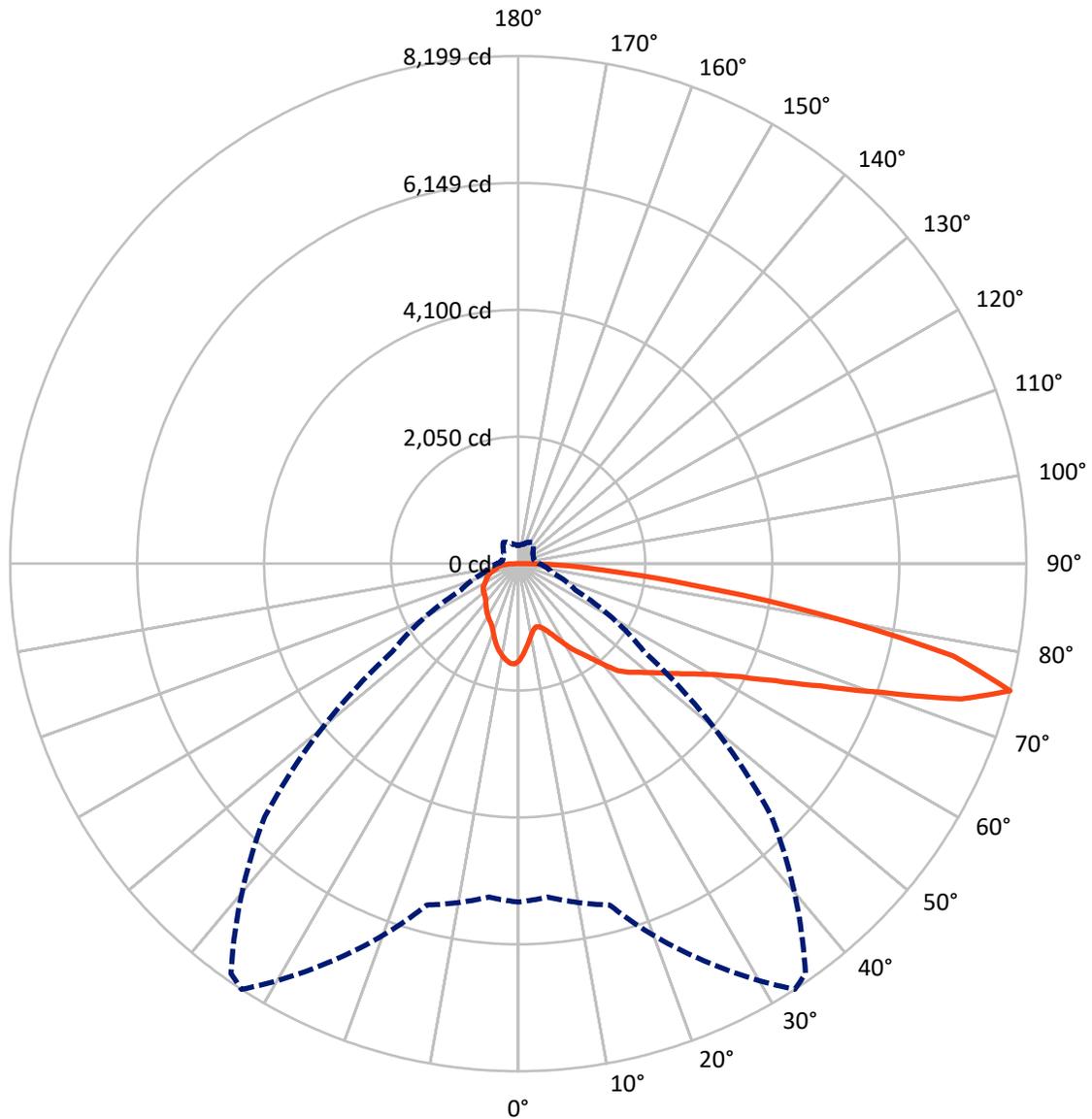
Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2154.6	0.0	2154.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	7879.4	0.0	7879.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	10034.0	0.0	10034.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	1.4
10°-20°	384.2	3.8
20°-30°	627.4	6.3
30°-40°	934.3	9.3
40°-50°	1340.1	13.4
50°-60°	1839.7	18.3
60°-70°	2303.3	23.0
70°-80°	2083.6	20.8
80°-90°	379.5	3.8
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°	10034.0	100.0
0°-180°	10034.0	100.0



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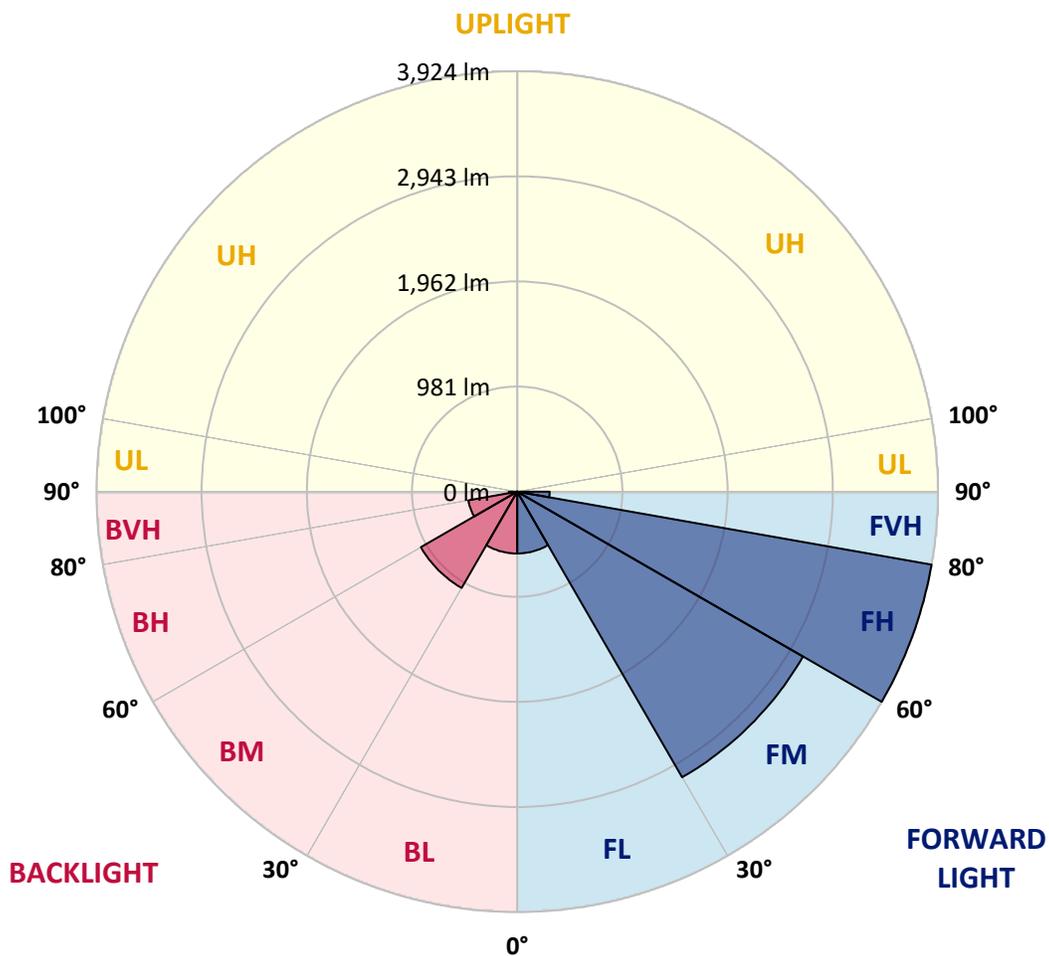
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	576.3	5.7			
FM	(30°-60°)	3077.2	30.7			
FH	(60°-80°)	3923.6	39.1			G2/5000
FVH	(80°-90°)	302.3	3.0			G3/500
BL	(0°-30°)	577.1	5.8	B2/1000		
BM	(30°-60°)	1036.9	10.3	B2/2500		
BH	(60°-80°)	463.3	4.6	B1/500		G1/500
BVH	(80°-90°)	77.3	0.8			G1/100
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°	33°	35°	45°	55°	65°	75°	85°
0°	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4
2.5°	1456.4	1450.9	1461.3	1462.7	1471.7	1475.1	1487.6	1507.0	1523.0	1541.3	1558.0
5°	1324.4	1320.6	1335.1	1345.5	1365.3	1373.6	1403.0	1444.3	1481.0	1522.6	1560.4
7.5°	1198.9	1196.8	1213.1	1236.7	1259.5	1271.0	1321.9	1381.9	1443.2	1510.5	1568.4
10°	1093.2	1092.5	1108.1	1131.3	1164.9	1177.8	1243.6	1322.6	1408.6	1501.1	1581.9
12.5°	1033.9	1036.3	1043.6	1063.0	1094.2	1107.0	1180.2	1273.1	1379.5	1498.0	1601.6
15°	1048.5	1052.3	1039.8	1039.1	1061.3	1071.3	1140.0	1237.7	1358.7	1503.2	1630.4
17.5°	1110.5	1111.2	1078.3	1057.5	1071.0	1076.2	1127.5	1217.6	1346.5	1515.0	1666.5
20°	1197.9	1196.1	1137.9	1103.2	1110.5	1111.9	1145.2	1218.0	1345.5	1535.4	1713.2
22.5°	1313.6	1300.8	1222.5	1175.3	1173.6	1171.5	1190.6	1243.6	1360.8	1568.7	1769.1
25°	1464.7	1452.6	1344.8	1280.3	1266.5	1261.3	1264.1	1298.4	1390.9	1604.4	1831.4
27.5°	1632.8	1611.7	1507.7	1416.6	1387.8	1380.5	1363.9	1375.7	1423.8	1638.7	1905.6
30°	1773.6	1762.1	1671.3	1563.2	1529.2	1518.8	1475.1	1462.3	1471.3	1685.5	1999.2
32.5°	1852.2	1844.6	1789.5	1702.2	1670.6	1656.1	1594.4	1568.7	1547.6	1759.3	2126.1
35°	1947.6	1942.7	1909.4	1846.0	1799.2	1784.0	1736.1	1709.4	1655.0	1860.9	2290.0
37.5°	2068.9	2063.7	2064.4	2013.1	1957.3	1943.0	1911.5	1883.4	1794.4	1994.3	2468.1
40°	2206.1	2196.1	2192.3	2189.8	2154.5	2146.5	2129.9	2091.7	1969.0	2153.8	2643.9
42.5°	2412.7	2377.0	2300.7	2329.5	2364.5	2360.4	2373.9	2319.1	2163.1	2342.3	2815.4
45°	2612.0	2553.4	2421.7	2427.9	2504.5	2527.8	2629.0	2590.2	2373.5	2548.9	2992.9
47.5°	2702.8	2658.4	2546.5	2546.8	2622.7	2670.9	2892.7	2865.0	2594.7	2783.6	3209.5
50°	2804.4	2760.0	2659.5	2697.3	2763.5	2814.7	3147.5	3133.3	2805.0	3040.4	3469.1
52.5°	2915.3	2840.1	2776.3	2843.9	2936.8	2996.4	3402.6	3363.8	2998.1	3299.0	3767.6
55°	2916.6	2896.2	2944.7	2994.3	3133.3	3206.4	3669.8	3567.2	3155.5	3553.0	4010.5
57.5°	3082.7	3049.4	3152.3	3175.2	3356.8	3439.3	3935.7	3744.3	3315.6	3747.8	4141.5
60°	3302.4	3274.0	3358.2	3418.5	3633.4	3743.6	4219.5	3926.3	3441.4	3894.8	4135.3
62.5°	3681.9	3649.7	3648.7	3733.2	4022.7	4150.9	4538.0	4104.8	3491.3	3923.9	3958.9
65°	4237.5	4186.2	4089.5	4129.8	4560.2	4688.1	4894.0	4234.1	3425.5	3767.9	3504.5
67.5°	4778.2	4776.5	4657.6	4740.1	5270.1	5372.7	5299.5	4246.9	3219.9	3224.8	2698.3
70°	5317.2	5324.1	5304.0	5591.0	6229.1	6335.9	5731.4	4074.6	2757.9	2328.8	1616.5
72.5°	5744.2	5742.5	5843.7	6583.7	7473.8	7449.8	6095.3	3552.7	1980.1	1257.1	772.6
75°	5467.6	5407.3	5708.9	7075.2	8199.2	8082.4	5785.8	2478.2	1027.7	572.2	415.9
77.5°	3566.2	3623.4	4066.0	5844.7	7171.9	7029.8	4244.8	1156.3	484.2	375.4	301.5
80°	1291.4	1351.7	1903.9	3310.7	4941.1	4917.9	2090.4	475.2	327.5	283.5	219.7
82.5°	444.3	466.5	751.1	1470.3	2789.8	2893.8	786.4	270.0	238.1	201.0	150.4
85°	174.3	199.6	343.5	707.4	1407.2	1417.6	318.5	161.5	165.7	131.7	82.5
87.5°	66.2	80.4	164.3	328.6	642.6	590.3	114.0	76.9	94.3	78.3	39.2
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°	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4
2.5°	1570.8	1578.1	1593.3	1603.7	1614.8	1617.9	1619.3	1622.1	1624.9	1623.8	1624.2
5°	1580.5	1594.7	1619.3	1629.7	1634.6	1629.0	1618.3	1609.6	1603.4	1599.9	1598.9
7.5°	1596.4	1616.5	1642.9	1641.2	1630.1	1605.5	1577.7	1556.9	1539.6	1533.4	1529.9
10°	1617.6	1641.2	1659.5	1639.8	1607.5	1564.9	1523.3	1491.1	1465.1	1455.0	1453.3
12.5°	1644.6	1668.5	1672.0	1630.1	1576.7	1518.5	1462.0	1419.3	1380.5	1368.0	1365.3
15°	1679.6	1702.2	1680.7	1613.1	1538.6	1460.2	1387.1	1329.2	1288.3	1273.1	1267.5
17.5°	1716.4	1737.9	1682.4	1585.0	1488.7	1391.3	1299.4	1240.1	1193.3	1175.7	1173.6
20°	1760.4	1770.1	1675.1	1544.8	1420.0	1301.8	1205.1	1149.3	1124.4	1111.9	1110.5
22.5°	1814.8	1804.4	1658.5	1490.4	1333.0	1198.5	1119.9	1093.9	1087.6	1084.9	1085.9
25°	1872.3	1840.5	1633.9	1419.3	1223.2	1095.3	1057.5	1064.8	1073.1	1072.0	1072.0
27.5°	1935.8	1877.2	1596.1	1325.1	1101.5	1010.7	1015.2	1041.9	1054.4	1054.0	1053.7
30°	2017.2	1918.8	1547.9	1211.7	987.8	951.1	978.5	1011.0	1028.0	1027.3	1027.7
32.5°	2117.4	1964.5	1482.4	1085.2	905.7	907.1	938.6	970.8	990.6	988.9	989.2
35°	2234.5	2015.8	1393.7	960.4	851.3	872.0	897.0	919.5	938.2	935.8	933.4
37.5°	2362.1	2066.1	1275.8	848.8	806.9	839.5	860.3	864.1	872.7	866.5	862.0
40°	2483.4	2104.6	1124.0	757.3	762.2	811.7	825.3	810.0	794.4	792.3	786.1
42.5°	2589.1	2117.4	970.5	684.2	715.0	782.6	790.9	759.1	731.0	717.8	712.3
45°	2700.7	2121.9	827.3	622.8	669.6	756.6	765.6	723.0	683.5	655.1	645.7
47.5°	2846.6	2154.5	716.1	577.4	635.0	739.3	752.1	694.2	642.9	602.4	593.7
50°	3037.6	2218.9	625.6	542.8	612.4	727.9	742.4	666.2	609.7	560.8	552.1
52.5°	3249.7	2278.2	552.5	514.7	590.6	707.8	729.9	646.1	578.5	522.3	513.0
55°	3398.1	2232.8	493.6	485.6	562.2	679.0	712.6	629.1	533.8	484.9	476.6
57.5°	3426.5	2077.5	448.8	455.4	527.9	642.9	685.9	591.3	509.5	468.6	459.9
60°	3348.9	1861.2	415.6	427.7	491.1	597.5	636.0	564.6	486.3	451.3	444.0
62.5°	3153.7	1639.8	391.0	402.8	456.8	551.4	604.8	536.5	462.7	431.5	424.2
65°	2759.6	1376.7	367.4	380.6	424.9	511.6	576.7	510.5	439.5	415.6	408.6
67.5°	2083.1	1031.1	345.2	357.0	396.5	476.9	546.2	484.9	417.0	401.7	393.4
70°	1226.6	645.7	319.9	332.4	366.7	440.9	513.7	456.8	388.9	382.0	371.2
72.5°	570.9	388.5	291.1	303.3	329.3	392.7	471.7	420.1	355.6	340.4	325.8
75°	340.7	284.2	257.2	267.9	286.3	341.4	419.0	382.6	324.1	304.0	288.7
77.5°	254.8	217.3	219.7	231.2	246.1	298.8	371.2	353.2	299.8	284.2	273.8
80°	183.4	165.0	179.2	191.7	207.3	271.7	355.6	326.5	271.0	250.2	240.5
82.5°	122.4	118.5	134.8	147.7	162.9	237.8	334.1	285.9	231.5	205.2	183.7
85°	67.6	71.4	90.8	96.4	109.5	167.4	273.8	229.8	174.3	140.4	134.1
87.5°	28.1	32.9	48.9	47.1	58.2	99.8	180.2	138.6	110.9	82.8	64.5
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)