

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: P1209033

Luminaire Tested: UPW-SA2-090-730-U-T4FT

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-730-U-T4FT
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THRC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

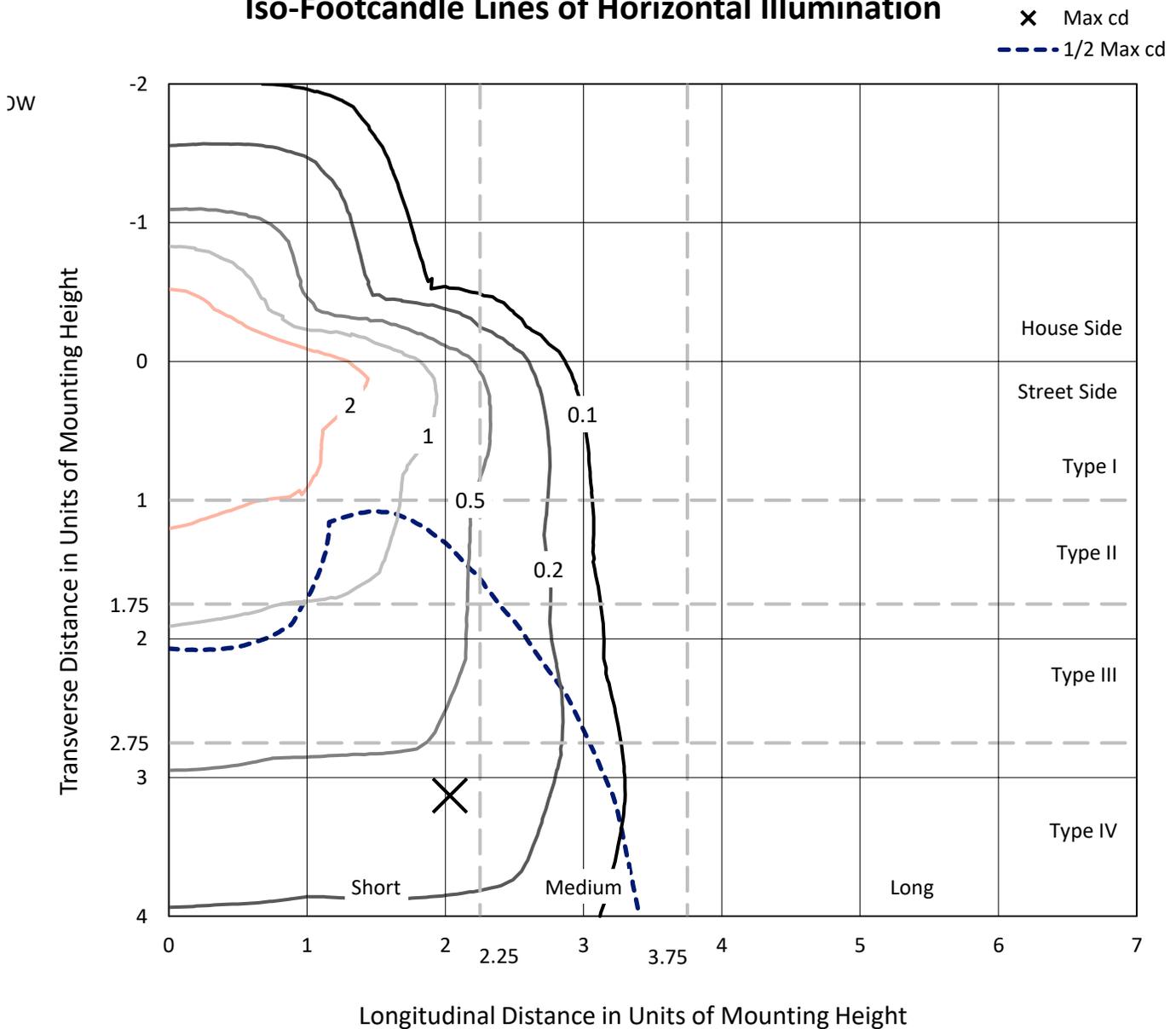
Lumens per Lamp: N/A
Luminaire Lumens: 10927 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 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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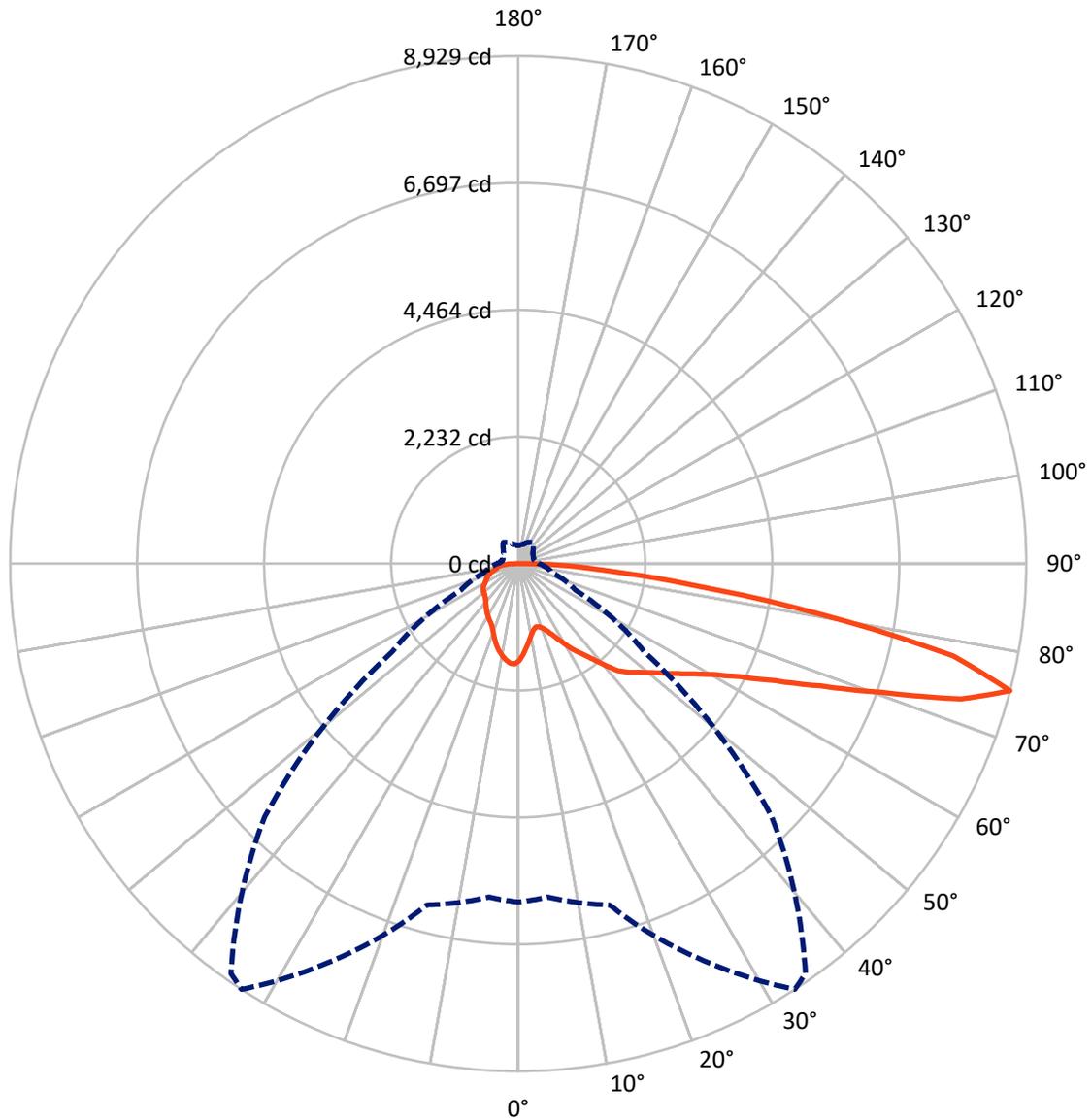
Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 4.3 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	2346.3	0.0	2346.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	8580.7	0.0	8580.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	10927.0	0.0	10927.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	1.4
10°-20°	418.3	3.8
20°-30°	683.2	6.3
30°-40°	1017.5	9.3
40°-50°	1459.4	13.4
50°-60°	2003.5	18.3
60°-70°	2508.2	23.0
70°-80°	2269.1	20.8
80°-90°	413.3	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°	10927.0	100.0
0°-180°	10927.0	100.0



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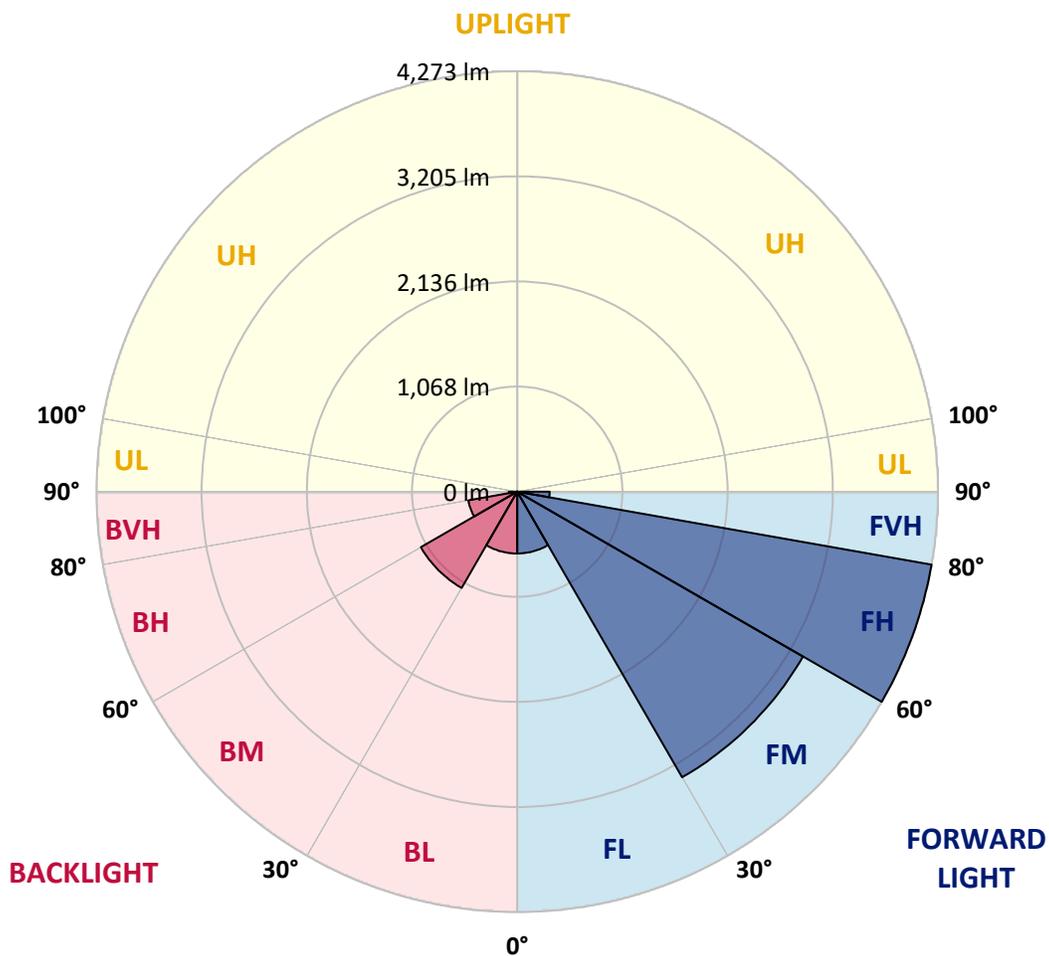
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	627.6	5.7			
FM	(30°-60°)	3351.1	30.7			
FH	(60°-80°)	4272.8	39.1			G2/5000
FVH	(80°-90°)	329.2	3.0			G3/500
BL	(0°-30°)	628.4	5.8	B2/1000		
BM	(30°-60°)	1129.2	10.3	B2/2500		
BH	(60°-80°)	504.5	4.6	B2/1000		G2/1000
BVH	(80°-90°)	84.1	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°	1708.0	1708.0	1708.0	1708.0	1708.0	1708.0	1708.0	1708.0	1708.0	1708.0	1708.0
2.5°	1586.0	1580.0	1591.3	1592.8	1602.6	1606.4	1620.0	1641.1	1658.5	1678.5	1696.6
5°	1442.2	1438.1	1453.9	1465.3	1486.8	1495.8	1527.9	1572.8	1612.8	1658.1	1699.3
7.5°	1305.6	1303.3	1321.1	1346.7	1371.6	1384.1	1439.6	1504.9	1571.7	1644.9	1708.0
10°	1190.5	1189.7	1206.7	1232.0	1268.6	1282.6	1354.3	1440.3	1533.9	1634.7	1722.7
12.5°	1125.9	1128.6	1136.5	1157.6	1191.6	1205.6	1285.2	1386.4	1502.2	1631.3	1744.2
15°	1141.8	1145.9	1132.3	1131.6	1155.7	1166.7	1241.4	1347.9	1479.6	1637.0	1775.5
17.5°	1209.3	1210.1	1174.2	1151.6	1166.3	1172.0	1227.8	1326.0	1466.4	1649.8	1814.8
20°	1304.5	1302.6	1239.2	1201.4	1209.3	1210.9	1247.1	1326.4	1465.3	1672.1	1865.7
22.5°	1430.5	1416.6	1331.3	1279.9	1278.0	1275.8	1296.5	1354.3	1481.9	1708.3	1926.5
25°	1595.1	1581.9	1464.5	1394.3	1379.2	1373.5	1376.6	1413.9	1514.7	1747.2	1994.4
27.5°	1778.2	1755.1	1641.9	1542.6	1511.3	1503.4	1485.3	1498.1	1550.6	1784.6	2075.2
30°	1931.4	1918.9	1820.1	1702.3	1665.3	1654.0	1606.4	1592.5	1602.3	1835.5	2177.1
32.5°	2017.1	2008.8	1948.8	1853.6	1819.3	1803.4	1736.3	1708.3	1685.3	1915.9	2315.3
35°	2120.9	2115.6	2079.4	2010.3	1959.3	1942.7	1890.6	1861.6	1802.3	2026.5	2493.8
37.5°	2253.0	2247.3	2248.1	2192.2	2131.4	2116.0	2081.6	2051.1	1954.0	2171.8	2687.8
40°	2402.5	2391.5	2387.4	2384.7	2346.2	2337.5	2319.4	2277.9	2144.3	2345.5	2879.2
42.5°	2627.4	2588.5	2505.5	2536.8	2574.9	2570.4	2585.1	2525.5	2355.7	2550.8	3066.0
45°	2844.4	2780.7	2637.2	2644.0	2727.4	2752.7	2862.9	2820.7	2584.8	2775.8	3259.3
47.5°	2943.3	2895.0	2773.1	2773.5	2856.1	2908.6	3150.2	3120.0	2825.6	3031.3	3495.2
50°	3053.9	3005.6	2896.2	2937.3	3009.4	3065.3	3427.6	3412.1	3054.7	3311.0	3777.9
52.5°	3174.7	3092.8	3023.4	3097.0	3198.1	3263.0	3705.4	3663.1	3264.9	3592.5	4102.9
55°	3176.2	3154.0	3206.8	3260.8	3412.1	3491.8	3996.4	3884.7	3436.3	3869.2	4367.4
57.5°	3357.0	3320.8	3432.9	3457.8	3655.6	3745.4	4285.9	4077.6	3610.7	4081.3	4510.1
60°	3596.3	3565.4	3657.1	3722.8	3956.8	4076.8	4595.0	4275.7	3747.7	4241.4	4503.3
62.5°	4009.6	3974.5	3973.4	4065.5	4380.7	4520.3	4941.9	4470.1	3802.0	4273.1	4311.2
65°	4614.7	4558.8	4453.5	4497.3	4966.1	5105.4	5329.6	4610.9	3730.3	4103.2	3816.4
67.5°	5203.5	5201.6	5072.1	5162.0	5739.1	5850.8	5771.2	4624.9	3506.5	3511.8	2938.4
70°	5790.4	5798.0	5776.1	6088.6	6783.5	6899.7	6241.5	4437.3	3003.4	2536.1	1760.4
72.5°	6255.4	6253.6	6363.8	7169.6	8138.9	8112.9	6637.8	3868.8	2156.4	1369.0	841.3
75°	5954.2	5888.6	6216.9	7704.8	8928.9	8801.7	6300.7	2698.8	1119.1	623.2	452.9
77.5°	3883.6	3945.8	4427.8	6364.9	7810.2	7655.4	4622.6	1259.2	527.3	408.8	328.4
80°	1406.4	1472.0	2073.3	3605.4	5380.9	5355.6	2276.4	517.5	356.7	308.8	239.3
82.5°	483.9	508.0	817.9	1601.1	3038.1	3151.3	856.4	294.0	259.3	218.9	163.8
85°	189.9	217.4	374.1	770.4	1532.4	1543.8	346.9	175.9	180.4	143.4	89.8
87.5°	72.1	87.6	178.9	357.8	699.8	642.8	124.2	83.8	102.7	85.3	42.7
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°	1708.0	1708.0	1708.0	1708.0	1708.0	1708.0	1708.0	1708.0	1708.0	1708.0	1708.0
2.5°	1710.6	1718.5	1735.1	1746.5	1758.5	1761.9	1763.4	1766.5	1769.5	1768.3	1768.7
5°	1721.2	1736.6	1763.4	1774.8	1780.0	1774.0	1762.3	1752.9	1746.1	1742.3	1741.2
7.5°	1738.5	1760.4	1789.1	1787.2	1775.1	1748.3	1718.1	1695.5	1676.6	1669.8	1666.1
10°	1761.5	1787.2	1807.2	1785.7	1750.6	1704.2	1658.9	1623.8	1595.5	1584.5	1582.6
12.5°	1791.0	1817.0	1820.8	1775.1	1717.0	1653.6	1592.1	1545.6	1503.4	1489.8	1486.8
15°	1829.1	1853.6	1830.2	1756.6	1675.5	1590.2	1510.5	1447.5	1403.0	1386.4	1380.3
17.5°	1869.1	1892.5	1832.1	1726.1	1621.1	1515.1	1415.1	1350.5	1299.6	1280.3	1278.0
20°	1917.1	1927.6	1824.2	1682.3	1546.4	1417.7	1312.4	1251.6	1224.4	1210.9	1209.3
22.5°	1976.3	1965.0	1806.1	1623.0	1451.7	1305.2	1219.5	1191.2	1184.4	1181.4	1182.5
25°	2039.0	2004.2	1779.3	1545.6	1332.0	1192.7	1151.6	1159.5	1168.6	1167.4	1167.4
27.5°	2108.0	2044.3	1738.1	1443.0	1199.5	1100.6	1105.5	1134.6	1148.2	1147.8	1147.4
30°	2196.7	2089.6	1685.7	1319.6	1075.7	1035.7	1065.5	1101.0	1119.5	1118.8	1119.1
32.5°	2305.8	2139.4	1614.3	1181.8	986.3	987.8	1022.1	1057.2	1078.7	1076.9	1077.2
35°	2433.4	2195.2	1517.7	1045.9	927.0	949.7	976.8	1001.4	1021.8	1019.1	1016.5
37.5°	2572.3	2250.0	1389.4	924.4	878.7	914.2	936.8	941.0	950.4	943.6	938.7
40°	2704.4	2291.9	1224.1	824.7	830.0	884.0	898.7	882.1	865.1	862.8	856.1
42.5°	2819.5	2305.8	1056.9	745.1	778.7	852.3	861.3	826.6	796.0	781.7	775.7
45°	2941.1	2310.7	901.0	678.3	729.2	824.0	833.8	787.4	744.3	713.4	703.2
47.5°	3100.0	2346.2	779.8	628.8	691.5	805.1	819.1	756.0	700.2	656.0	646.6
50°	3308.0	2416.4	681.3	591.1	667.0	792.6	808.5	725.5	663.9	610.7	601.3
52.5°	3539.0	2481.0	601.7	560.5	643.2	770.7	794.9	703.6	630.0	568.8	558.6
55°	3700.5	2431.5	537.5	528.8	612.2	739.4	776.0	685.1	581.3	528.0	519.0
57.5°	3731.4	2262.4	488.8	496.0	574.9	700.2	747.0	643.9	554.8	510.3	500.9
60°	3646.9	2026.9	452.6	465.8	534.8	650.7	692.6	614.9	529.6	491.4	483.5
62.5°	3434.4	1785.7	425.8	438.6	497.5	600.5	658.6	584.3	503.9	469.9	462.0
65°	3005.2	1499.2	400.1	414.4	462.8	557.1	628.1	556.0	478.6	452.6	445.0
67.5°	2268.5	1122.9	375.9	388.8	431.8	519.4	594.9	528.0	454.1	437.5	428.4
70°	1335.8	703.2	348.4	362.0	399.3	480.1	559.4	497.5	423.5	415.9	404.2
72.5°	621.7	423.1	317.1	330.3	358.6	427.6	513.7	457.5	387.3	370.7	354.8
75°	371.0	309.5	280.1	291.8	311.8	371.8	456.3	416.7	352.9	331.0	314.4
77.5°	277.4	236.7	239.3	251.8	268.0	325.4	404.2	384.6	326.5	309.5	298.2
80°	199.7	179.7	195.1	208.7	225.7	295.9	387.3	355.6	295.2	272.5	261.9
82.5°	133.2	129.1	146.8	160.8	177.4	258.9	363.9	311.4	252.1	223.4	200.0
85°	73.6	77.8	98.9	104.9	119.3	182.3	298.2	250.2	189.9	152.9	146.1
87.5°	30.6	35.9	53.2	51.3	63.4	108.7	196.3	151.0	120.8	90.2	70.2
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)