

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P472264

Luminaire Tested: **CCW-VA-4-727-U-T4FT**

Issue Date: 01/27/2021

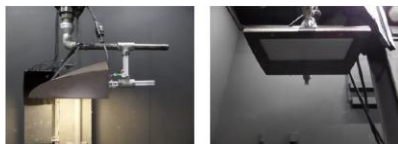
Test Information

Test Method: LM-79-08
Report Number: P472264
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-4-727-U-T4FT
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS
Light Source: 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5897.9 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

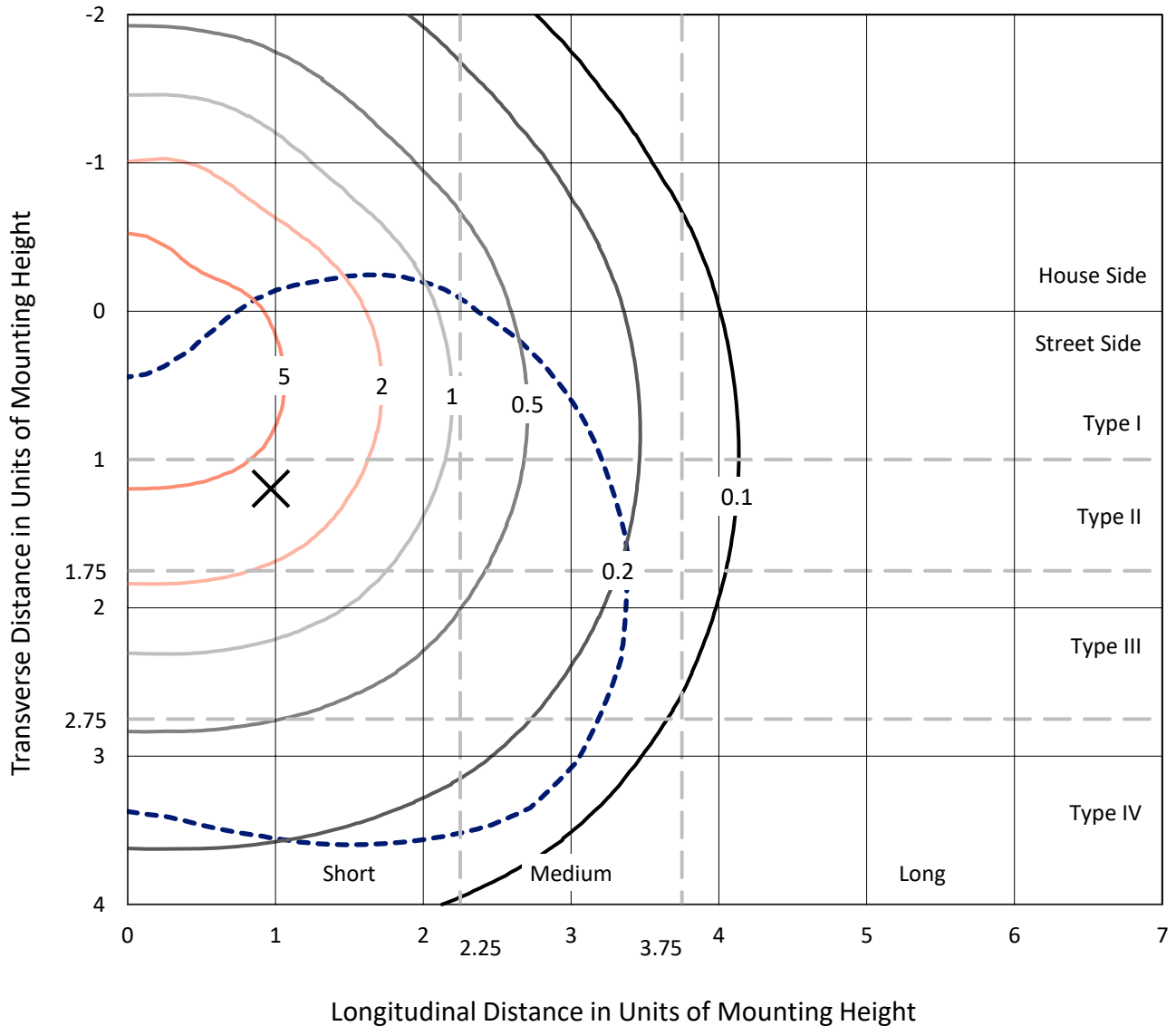
Input Watts (W): 64.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

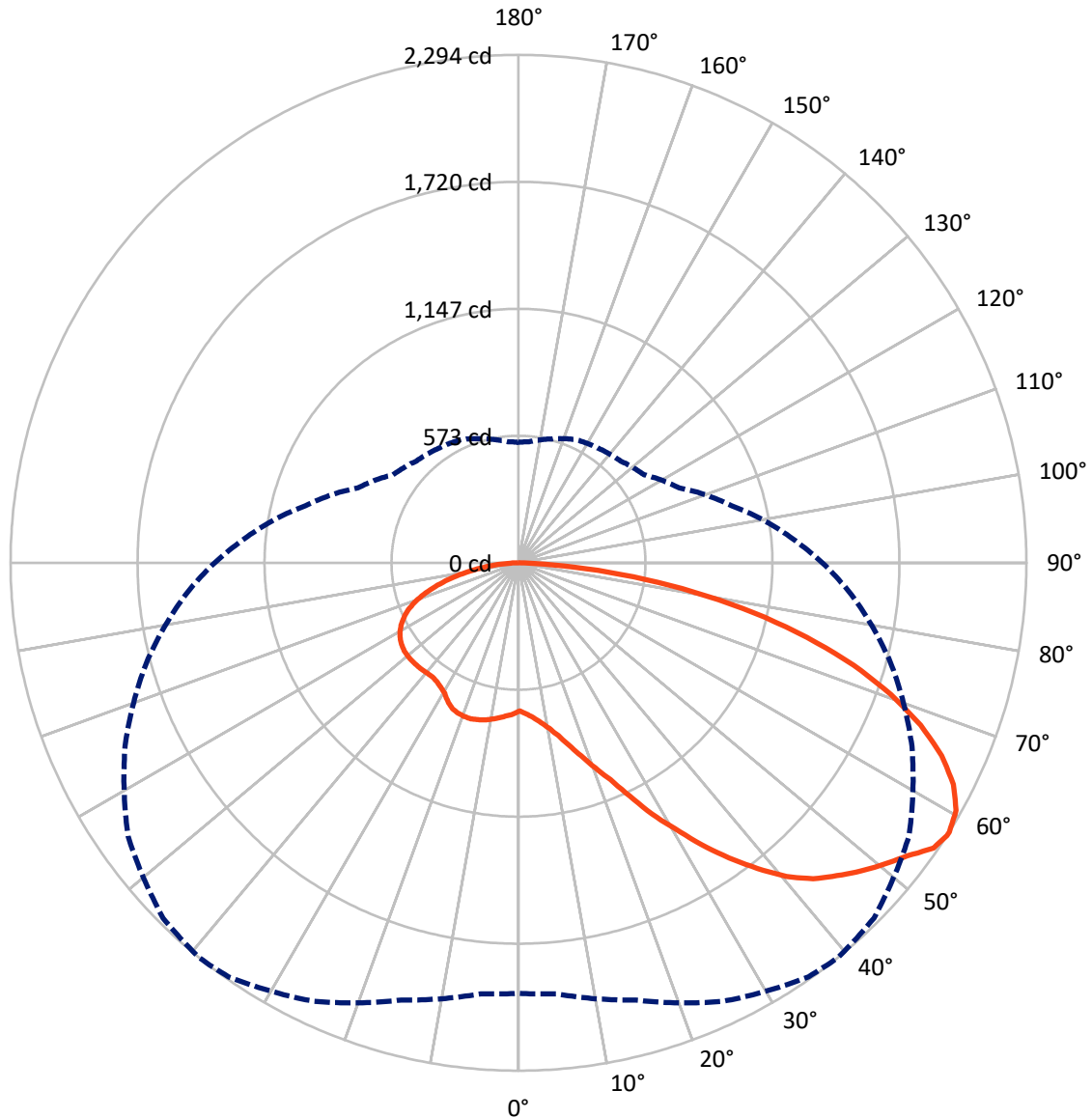
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1809.7	0.0	1809.7
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	4088.2	0.0	4088.2
	% Fixture	69.3	0.0	69.3
Total	Lumens	5897.9	0.0	5897.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	1.1
10°-20°	225.8	3.8
20°-30°	436.2	7.4
30°-40°	705.7	12.0
40°-50°	991.4	16.8
50°-60°	1224.7	20.8
60°-70°	1217.2	20.6
70°-80°	823.6	14.0
80°-90°	205.6	3.5
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°	5897.9	100.0
0°-180°	5897.9	100.0

Coefficient of Utilization

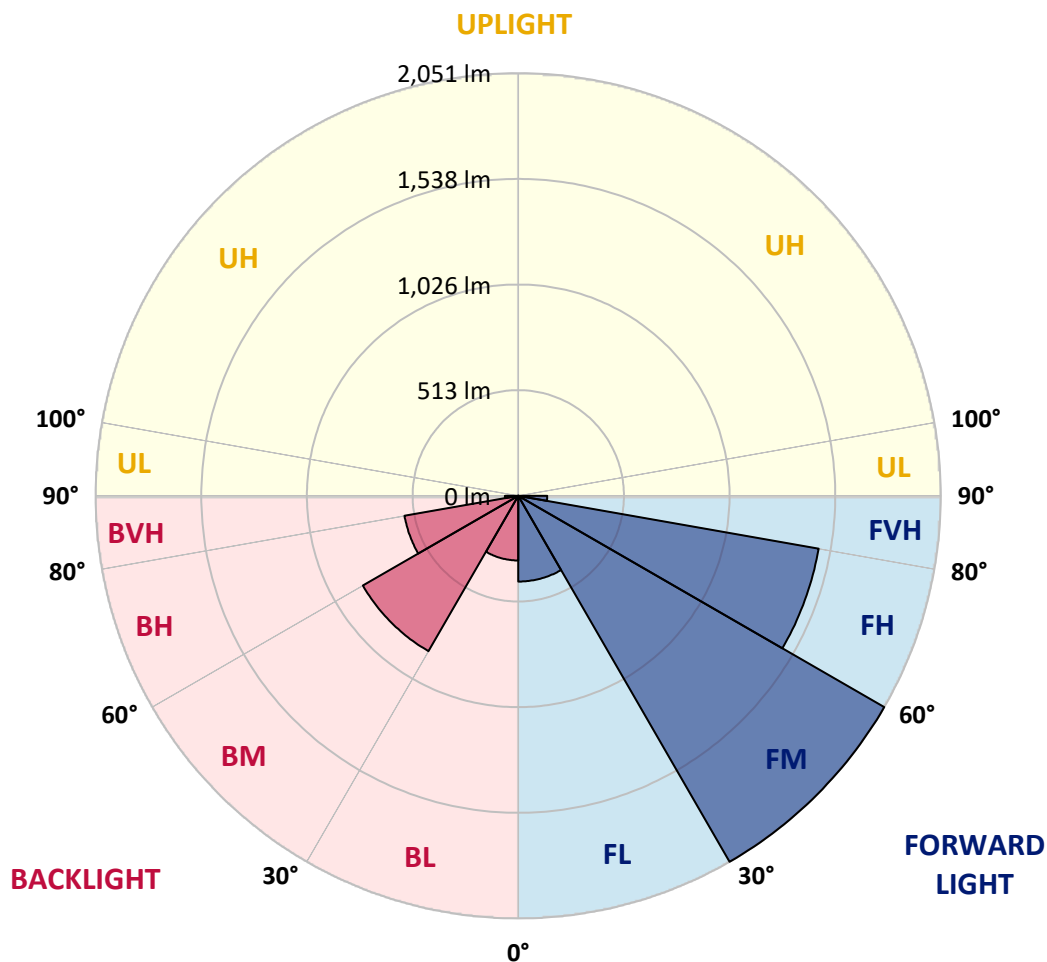


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.2	7.1			
FM (30°-60°)	2051.0	34.8			
FH (60°-80°)	1480.4	25.1			G1/1800
FVH (80°-90°)	140.7	2.4			G2/225
BL (0°-30°)	313.7	5.3	B1/500		
BM (30°-60°)	870.7	14.8	B1/1000		
BH (60°-80°)	560.4	9.5	B2/1000		G2/1000
BVH (80°-90°)	64.9	1.1			G1/100
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°	39°	45°	55°	65°	75°	85°
0°	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8
2.5°	688.7	687.8	686.9	686.9	685.1	683.3	682.4	680.5	681.4	683.3	684.2
5°	708.6	706.8	706.8	704.9	702.2	702.2	699.5	695.9	695.0	694.1	694.1
7.5°	739.3	736.6	737.5	734.8	732.1	728.4	723.9	719.4	717.6	711.3	705.8
10°	774.5	773.6	770.9	766.4	763.7	760.1	755.6	747.4	741.1	733.9	729.3
12.5°	816.1	814.3	815.2	811.6	807.1	800.7	793.5	785.4	773.6	760.1	751.0
15°	870.3	866.7	866.7	865.8	856.8	855.0	847.7	829.7	813.4	795.3	774.5
17.5°	936.3	935.4	931.8	928.2	922.8	916.4	909.2	889.3	864.9	836.9	808.9
20°	1006.8	1005.0	1007.7	1002.3	991.4	988.7	977.0	954.4	924.6	892.0	849.5
22.5°	1083.6	1085.4	1085.4	1083.6	1074.6	1063.7	1053.8	1024.0	989.6	949.9	900.2
25°	1176.7	1177.6	1183.0	1188.5	1183.0	1165.9	1152.3	1106.2	1060.1	1009.5	950.8
27.5°	1281.6	1275.2	1290.6	1300.5	1290.6	1286.1	1256.2	1205.6	1142.4	1079.1	1005.9
30°	1382.8	1382.8	1395.4	1409.9	1403.6	1392.7	1368.3	1303.2	1230.9	1150.5	1061.9
32.5°	1476.8	1487.6	1493.0	1526.5	1522.9	1517.4	1489.4	1403.6	1313.2	1221.9	1116.2
35°	1587.9	1584.3	1606.9	1627.7	1644.0	1636.7	1616.0	1529.2	1410.8	1296.9	1175.8
37.5°	1672.0	1679.2	1699.1	1736.2	1747.9	1751.5	1725.3	1635.8	1501.2	1377.4	1241.8
40°	1736.2	1741.6	1779.5	1826.5	1850.9	1863.6	1837.4	1728.9	1586.1	1441.5	1293.3
42.5°	1787.7	1791.3	1831.1	1897.9	1938.6	1951.3	1927.8	1813.0	1658.4	1493.0	1335.8
45°	1822.0	1828.3	1875.3	1944.0	2007.3	2016.3	2004.6	1887.1	1722.6	1541.8	1366.5
47.5°	1851.8	1859.1	1911.5	1998.2	2068.7	2080.5	2069.6	1952.2	1784.1	1586.1	1392.7
50°	1891.6	1899.7	1952.2	2048.9	2126.6	2140.1	2136.5	2020.8	1841.9	1635.8	1419.8
52.5°	1929.6	1935.9	1998.2	2105.8	2189.8	2198.9	2196.2	2085.0	1900.6	1689.2	1454.2
55°	1959.4	1966.6	2040.7	2173.6	2264.0	2273.9	2254.9	2134.7	1946.7	1728.0	1486.7
57°	1944.0	1954.0	2044.3	2185.3	2282.9	2293.8	2269.4	2152.8	1960.3	1738.9	1498.5
57.5°	1939.5	1946.7	2040.7	2184.4	2283.8	2293.8	2269.4	2151.9	1959.4	1738.0	1498.5
60°	1873.5	1890.7	1996.4	2151.9	2257.6	2270.3	2246.8	2115.7	1936.8	1712.7	1474.1
62.5°	1785.0	1808.5	1919.6	2075.1	2194.4	2203.4	2179.9	2055.2	1886.2	1659.3	1423.4
65°	1657.5	1693.7	1810.3	1960.3	2089.5	2100.4	2076.9	1954.0	1802.1	1578.0	1347.5
67.5°	1532.8	1554.5	1679.2	1822.0	1942.2	1958.5	1938.6	1829.2	1686.4	1469.5	1246.3
70°	1390.9	1406.3	1509.3	1649.4	1770.5	1784.1	1766.9	1664.8	1530.1	1334.9	1127.9
72.5°	1220.1	1236.4	1324.0	1453.3	1560.8	1582.5	1570.8	1465.0	1343.0	1174.0	996.0
75°	1027.6	1045.7	1124.3	1227.3	1332.2	1344.8	1331.3	1253.5	1143.3	990.5	835.1
77.5°	833.3	845.0	902.0	979.7	1061.0	1088.1	1084.5	1029.4	918.2	797.1	670.6
80°	623.6	625.4	655.2	719.4	784.5	804.4	808.9	759.2	686.0	594.7	502.5
82.5°	394.0	400.4	416.6	464.5	496.2	523.3	529.6	500.7	454.6	397.7	340.7
85°	183.5	178.0	190.7	207.0	252.2	252.2	260.3	244.9	231.4	212.4	176.2
87.5°	15.4	14.5	14.5	15.4	24.4	26.2	41.6	46.1	49.7	49.7	52.4
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°	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8
2.5°	682.4	681.4	678.7	678.7	680.5	683.3	684.2	685.1	686.0	686.9	686.9
5°	693.2	692.3	690.5	688.7	690.5	691.4	694.1	695.9	695.9	697.7	696.8
7.5°	703.1	704.0	702.2	701.3	701.3	703.1	706.8	709.5	711.3	712.2	714.0
10°	725.7	720.3	713.1	709.5	709.5	713.1	716.7	720.3	723.9	725.7	725.7
12.5°	745.6	739.3	725.7	720.3	719.4	723.0	727.5	733.0	735.7	738.4	738.4
15°	763.7	758.3	742.0	729.3	725.7	728.4	733.9	740.2	744.7	747.4	747.4
17.5°	798.0	781.8	760.1	739.3	732.1	733.0	739.3	745.6	751.0	752.8	751.9
20°	830.6	809.8	777.2	747.4	735.7	732.1	738.4	746.5	751.0	753.7	753.7
22.5°	867.6	845.0	794.4	755.6	733.9	728.4	733.9	741.1	746.5	748.3	750.1
25°	920.0	880.3	813.4	761.9	731.2	720.3	723.9	731.2	737.5	738.4	737.5
27.5°	967.0	921.9	838.7	768.2	724.8	704.9	701.3	706.8	716.7	723.0	724.8
30°	1007.7	966.1	864.9	773.6	713.1	679.6	675.1	676.9	683.3	700.4	701.3
32.5°	1068.3	1004.1	891.1	778.2	699.5	666.1	659.8	657.9	659.8	668.8	668.8
35°	1109.8	1046.6	917.3	786.3	689.6	655.2	648.9	646.2	644.4	635.4	632.6
37.5°	1164.1	1093.6	942.6	793.5	685.1	650.7	641.7	643.5	634.5	609.1	601.9
40°	1223.7	1136.0	967.9	800.7	686.9	651.6	643.5	642.6	627.2	592.0	584.7
42.5°	1252.6	1172.2	994.2	810.7	694.1	654.3	647.1	644.4	625.4	585.6	575.7
45°	1280.7	1198.4	1013.1	818.8	701.3	657.9	648.9	646.2	624.5	580.2	573.0
47.5°	1306.0	1214.7	1022.2	823.3	706.8	660.7	649.8	645.3	620.0	577.5	570.3
50°	1317.7	1223.7	1022.2	823.3	708.6	663.4	648.0	641.7	612.8	573.0	566.7
52.5°	1335.8	1229.1	1014.0	817.9	705.8	663.4	644.4	634.5	603.7	566.7	561.2
55°	1362.9	1239.1	1003.2	809.8	699.5	657.9	638.1	624.5	591.1	557.6	553.1
57°	1371.9	1242.7	996.0	799.8	692.3	650.7	630.8	613.7	579.3	548.6	544.1
57.5°	1370.1	1240.9	993.2	797.1	689.6	648.0	629.0	611.0	576.6	546.8	542.3
60°	1345.7	1223.7	976.1	780.0	675.1	633.5	612.8	592.9	557.6	531.4	527.8
62.5°	1306.0	1184.9	945.3	757.4	655.2	613.7	592.0	569.4	534.1	511.5	509.7
65°	1238.2	1119.8	901.1	724.8	629.9	587.5	564.0	539.6	508.8	488.9	483.5
67.5°	1125.2	1033.0	838.7	679.6	591.1	554.9	529.6	504.3	476.3	459.1	455.5
70°	1031.2	938.1	759.2	622.7	544.1	509.7	486.2	461.8	437.4	422.1	421.2
72.5°	911.9	822.4	659.8	552.2	484.4	451.0	432.9	411.2	392.2	378.7	378.7
75°	767.3	696.8	556.7	468.2	413.0	388.6	373.3	356.1	339.8	330.8	332.6
77.5°	610.0	556.7	454.6	378.7	338.0	321.7	307.3	297.3	287.4	279.3	280.2
80°	450.1	410.3	334.4	278.4	258.5	244.0	241.3	235.0	229.6	226.8	222.3
82.5°	308.2	272.9	222.3	190.7	176.2	171.7	172.6	172.6	173.5	173.5	171.7
85°	160.0	146.4	113.0	102.1	100.3	104.8	110.3	113.9	113.0	113.0	110.3
87.5°	46.1	41.6	36.2	32.5	34.3	37.1	32.5	31.6	30.7	29.8	29.8
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)