

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: P472181

Luminaire Tested: **CCP-VA-5-827-U-T4W**

Issue Date: 01/27/2021



Test Information

Test Method: LM-79-08
Report Number: P472181
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-VA-5-827-U-T4W
Description: INVUE CLEARCURVE POLE MOUNT Wave Stream LUMINAIRE WITH T4W
DISTRIBUTION LENS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

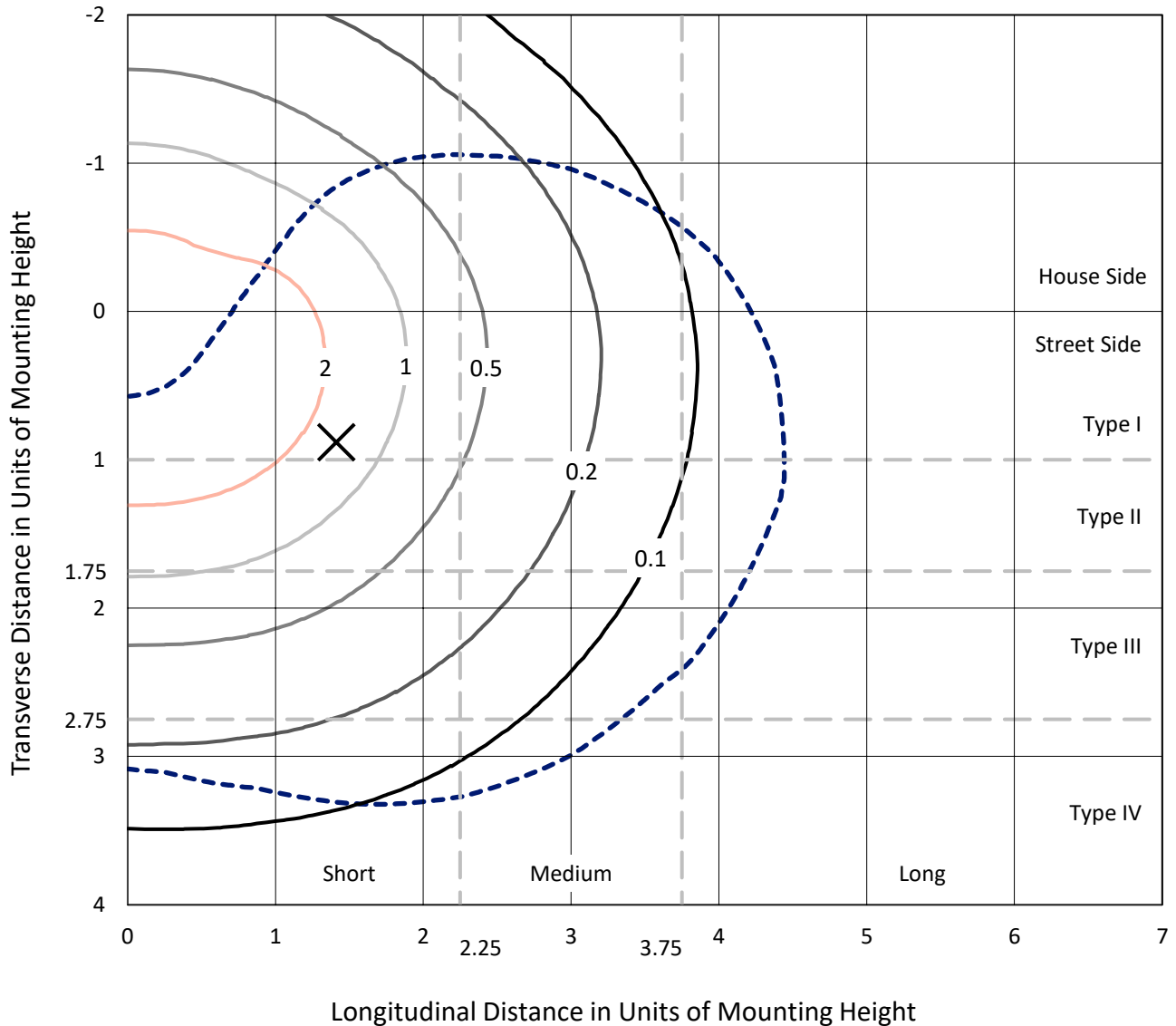
Lumens per Lamp: N/A
Luminaire Lumens: 6985.5 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 74.3
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

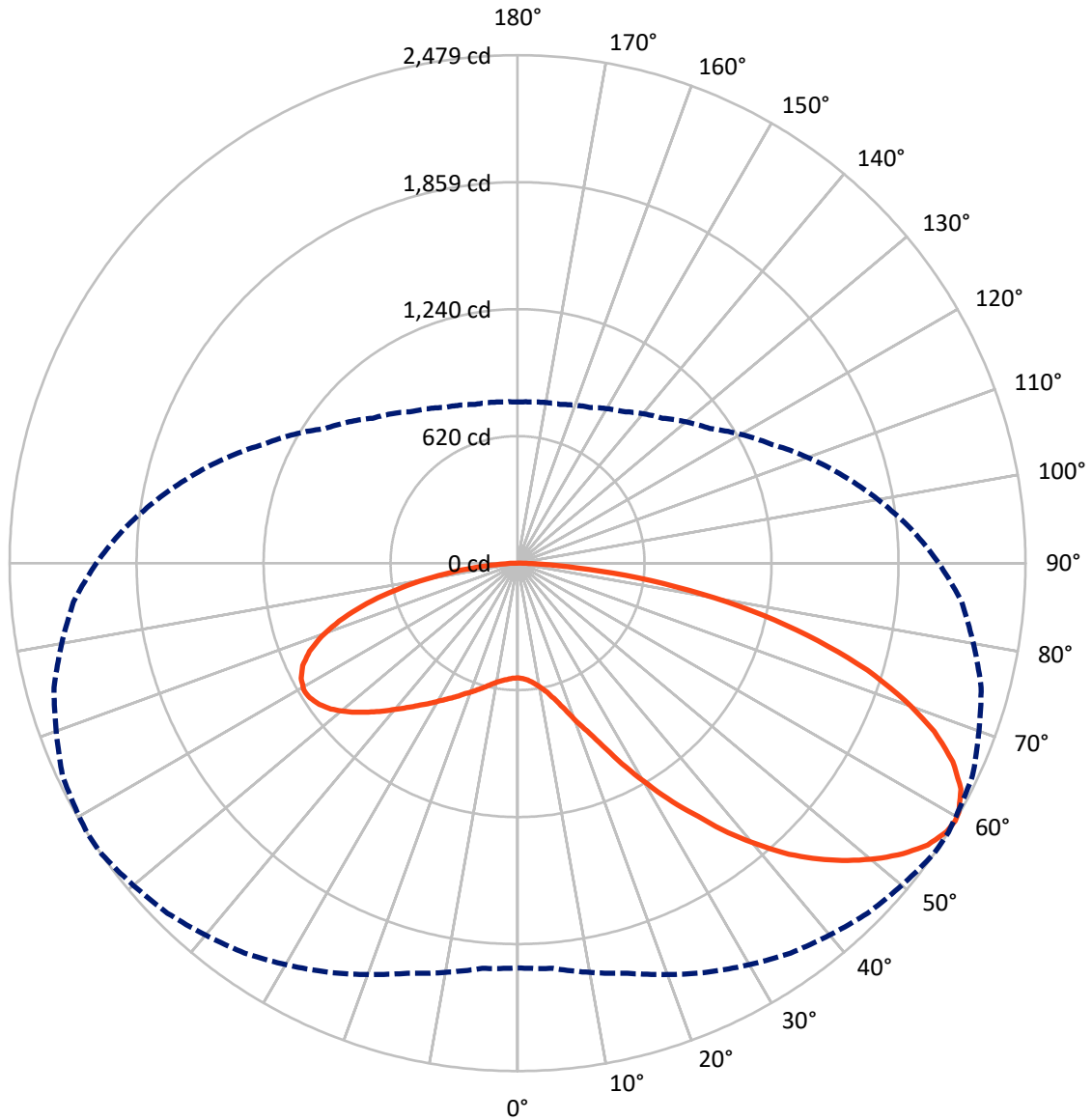
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2491.3	0.0	2491.3
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	4494.2	0.0	4494.2
	% Fixture	64.3	0.0	64.3
Total	Lumens	6985.5	0.0	6985.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	0.8
10°-20°	189.5	2.7
20°-30°	399.9	5.7
30°-40°	736.0	10.5
40°-50°	1147.2	16.4
50°-60°	1507.5	21.6
60°-70°	1579.6	22.6
70°-80°	1095.2	15.7
80°-90°	275.0	3.9
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°	6985.5	100.0
0°-180°	6985.5	100.0



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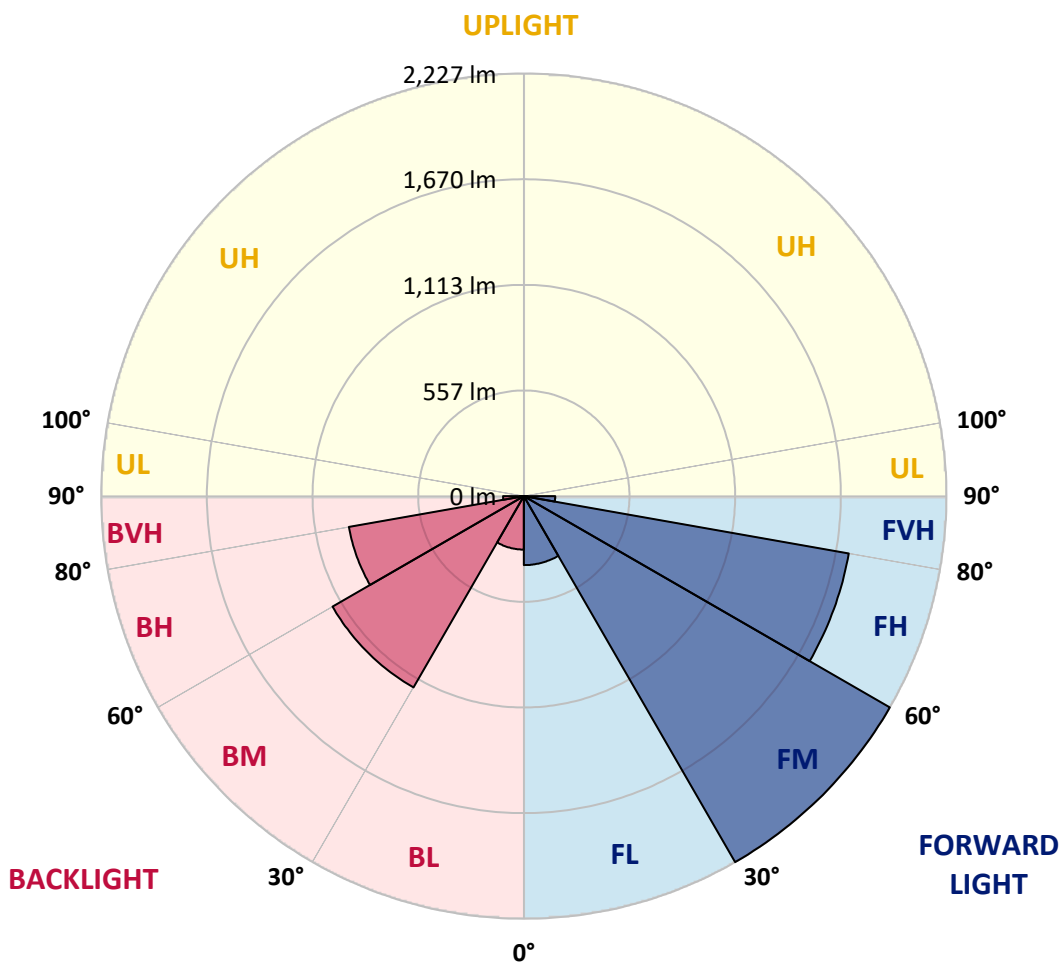
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	363.4	5.2			
FM (30°-60°)	2226.8	31.9			
FH (60°-80°)	1738.7	24.9			G1/1800
FVH (80°-90°)	165.3	2.4			G2/225
BL (0°-30°)	281.6	4.0	B1/500		
BM (30°-60°)	1163.9	16.7	B2/2500		
BH (60°-80°)	936.1	13.4	B2/1000		G2/1000
BVH (80°-90°)	109.8	1.6			G2/225
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°	45°	55°	58°	65°	75°	85°
0°	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0
2.5°	567.9	567.9	567.9	566.3	566.3	566.3	564.7	564.7	564.7	563.1	561.6
5°	580.4	580.4	578.9	580.4	578.9	577.3	575.7	575.7	575.7	574.2	572.6
7.5°	597.7	599.3	597.7	599.3	597.7	596.2	593.0	593.0	591.5	588.3	585.2
10°	624.5	624.5	624.5	622.9	621.3	619.8	618.2	616.6	615.1	610.3	605.6
12.5°	657.5	657.5	657.5	654.4	654.4	651.2	649.7	648.1	644.9	638.6	632.4
15°	698.4	696.8	701.6	701.6	700.0	700.0	695.3	692.1	689.0	679.5	665.4
17.5°	753.5	751.9	756.6	759.8	759.8	761.3	753.5	750.3	739.3	726.7	707.9
20°	827.4	824.3	829.0	832.1	829.0	832.1	824.3	825.8	810.1	788.1	758.2
22.5°	907.6	907.6	912.4	912.4	913.9	917.1	907.6	902.9	890.3	858.9	821.1
25°	1006.7	1014.6	1014.6	1014.6	1020.9	1022.5	1013.0	1005.2	987.9	945.4	893.5
27.5°	1127.9	1126.3	1124.7	1134.1	1134.1	1137.3	1131.0	1127.9	1107.4	1055.5	976.8
30°	1256.8	1247.4	1253.7	1256.8	1263.1	1267.9	1261.6	1252.1	1227.0	1170.3	1072.8
32.5°	1374.8	1381.1	1390.5	1393.7	1403.1	1404.7	1389.0	1389.0	1363.8	1291.4	1190.8
35°	1508.5	1508.5	1533.7	1544.7	1544.7	1554.1	1530.5	1518.0	1500.7	1425.2	1297.7
37.5°	1624.9	1628.1	1648.5	1673.7	1676.8	1691.0	1673.7	1669.0	1637.5	1560.4	1418.9
40°	1733.5	1736.6	1761.8	1791.7	1809.0	1831.0	1813.7	1805.8	1772.8	1684.7	1540.0
42.5°	1818.4	1824.7	1856.2	1900.2	1928.5	1955.3	1947.4	1942.7	1897.1	1804.3	1651.7
45°	1882.9	1893.9	1938.0	1989.9	2029.2	2068.5	2070.1	2060.7	2018.2	1914.4	1760.2
47.5°	1934.8	1947.4	1996.2	2062.2	2122.0	2170.8	2180.2	2169.2	2129.9	2021.3	1857.7
50°	1977.3	1983.6	2038.6	2123.6	2197.5	2258.9	2277.7	2268.3	2233.7	2111.0	1942.7
52.5°	1999.3	2008.7	2071.7	2169.2	2258.9	2332.8	2361.1	2356.4	2315.5	2192.8	2018.2
55°	2010.3	2019.8	2093.7	2205.4	2306.0	2392.6	2427.2	2428.7	2389.4	2266.7	2089.0
57.5°	1997.7	2010.3	2090.5	2214.8	2326.5	2419.3	2472.8	2471.2	2439.8	2323.3	2148.7
59°	1975.7	1985.2	2071.7	2202.2	2323.3	2416.2	2477.5	2479.1	2450.8	2342.2	2175.5
60°	1950.5	1961.6	2049.6	2186.5	2310.8	2405.1	2469.6	2472.8	2449.2	2346.9	2186.5
62.5°	1864.0	1878.2	1975.7	2122.0	2257.3	2346.9	2424.0	2428.7	2416.2	2334.4	2194.4
65°	1742.9	1755.5	1860.9	2016.6	2158.2	2251.0	2323.3	2334.4	2332.8	2277.7	2162.9
67.5°	1595.0	1596.6	1695.7	1865.6	2013.5	2104.7	2173.9	2192.8	2206.9	2170.8	2070.1
70°	1417.3	1415.7	1511.7	1680.0	1827.8	1923.8	1993.0	2005.6	2041.8	2013.5	1931.7
72.5°	1197.1	1215.9	1305.6	1447.2	1593.5	1700.4	1761.8	1785.4	1805.8	1812.1	1744.5
75°	989.4	1009.9	1080.7	1212.8	1338.6	1437.7	1503.8	1514.8	1552.6	1562.0	1499.1
77.5°	791.2	792.8	844.7	950.1	1064.9	1146.7	1200.2	1228.5	1249.0	1267.9	1201.8
80°	555.3	563.1	599.3	674.8	764.5	851.0	895.0	913.9	928.1	940.7	918.6
82.5°	347.6	350.8	374.4	420.0	481.3	530.1	575.7	591.5	594.6	622.9	619.8
85°	165.2	166.7	182.5	204.5	231.2	270.6	287.9	287.9	309.9	330.3	330.3
87.5°	22.0	22.0	26.7	29.9	37.8	48.8	67.6	69.2	81.8	91.2	99.1
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°	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0
2.5°	561.6	561.6	561.6	561.6	561.6	560.0	561.6	561.6	561.6	561.6	561.6
5°	572.6	571.0	569.4	567.9	567.9	566.3	566.3	566.3	566.3	566.3	566.3
7.5°	583.6	582.0	580.4	577.3	575.7	574.2	574.2	572.6	572.6	572.6	572.6
10°	602.5	600.9	594.6	589.9	586.7	585.2	583.6	582.0	580.4	580.4	580.4
12.5°	627.6	624.5	613.5	607.2	602.5	599.3	596.2	594.6	593.0	591.5	591.5
15°	659.1	651.2	637.1	627.6	621.3	616.6	611.9	608.8	607.2	605.6	605.6
17.5°	696.8	687.4	668.5	651.2	640.2	632.4	626.1	621.3	619.8	619.8	619.8
20°	744.0	728.3	701.6	678.0	660.7	649.7	640.2	635.5	633.9	632.4	630.8
22.5°	799.1	778.6	739.3	703.1	681.1	665.4	654.4	648.1	643.4	641.8	641.8
25°	862.0	832.1	780.2	736.2	706.3	684.3	670.1	662.2	654.4	651.2	651.2
27.5°	937.5	898.2	829.0	770.8	729.9	703.1	687.4	676.4	668.5	662.2	659.1
30°	1019.3	975.3	882.5	808.5	756.6	726.7	707.9	695.3	684.3	673.3	671.7
32.5°	1123.1	1060.2	947.0	851.0	788.1	750.3	728.3	712.6	698.4	687.4	684.3
35°	1228.5	1153.0	1014.6	895.0	818.0	772.4	745.6	728.3	714.2	701.6	700.0
37.5°	1337.1	1256.8	1088.5	947.0	852.6	797.5	764.5	745.6	728.3	715.7	714.2
40°	1450.3	1355.9	1164.0	1000.4	888.8	822.7	784.9	761.3	742.5	731.5	729.9
42.5°	1557.3	1455.0	1245.8	1063.4	931.2	849.4	805.4	780.2	756.6	745.6	744.0
45°	1659.5	1549.4	1327.6	1121.6	973.7	877.7	825.8	795.9	770.8	759.8	758.2
47.5°	1752.3	1642.2	1403.1	1184.5	1017.7	909.2	847.9	811.7	783.4	772.4	772.4
50°	1835.7	1720.9	1477.1	1242.7	1058.6	940.7	866.7	825.8	797.5	786.5	784.9
52.5°	1914.4	1790.1	1541.6	1293.0	1098.0	969.0	885.6	836.8	807.0	794.4	792.8
55°	1977.3	1853.0	1595.0	1333.9	1124.7	987.9	898.2	843.1	810.1	799.1	797.5
57.5°	2032.3	1904.9	1632.8	1362.2	1142.0	998.9	904.5	843.1	808.5	795.9	794.4
59°	2055.9	1926.9	1645.4	1370.1	1145.2	1000.4	902.9	838.4	802.2	789.7	786.5
60°	2068.5	1936.4	1650.1	1371.7	1143.6	997.3	901.3	833.7	795.9	781.8	781.8
62.5°	2081.1	1944.3	1643.8	1359.1	1126.3	980.0	885.6	814.8	772.4	756.6	756.6
65°	2054.4	1915.9	1607.6	1324.5	1091.7	950.1	855.7	783.4	736.2	720.4	720.4
67.5°	1975.7	1846.7	1541.6	1260.0	1035.0	898.2	807.0	733.0	689.0	671.7	667.0
70°	1842.0	1733.5	1437.7	1167.2	958.0	832.1	745.6	674.8	629.2	611.9	605.6
72.5°	1662.7	1555.7	1299.3	1053.9	855.7	745.6	670.1	602.5	552.1	534.8	536.4
75°	1415.7	1340.2	1120.0	910.8	737.7	635.5	572.6	516.0	473.5	459.3	460.9
77.5°	1148.3	1085.4	907.6	742.5	602.5	523.8	470.3	424.7	396.4	388.5	383.8
80°	879.3	818.0	681.1	553.7	457.7	402.7	366.5	335.1	313.0	302.0	305.2
82.5°	589.9	552.1	451.5	366.5	311.5	272.1	259.5	239.1	231.2	224.9	229.7
85°	317.7	284.7	236.0	196.6	171.5	160.4	163.6	162.0	155.7	154.2	158.9
87.5°	103.8	89.7	69.2	58.2	59.8	53.5	53.5	50.3	45.6	44.0	47.2
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)