

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: P472145

Luminaire Tested: **CCW-VA-5-727-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472145
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-5-727-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7276.1 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

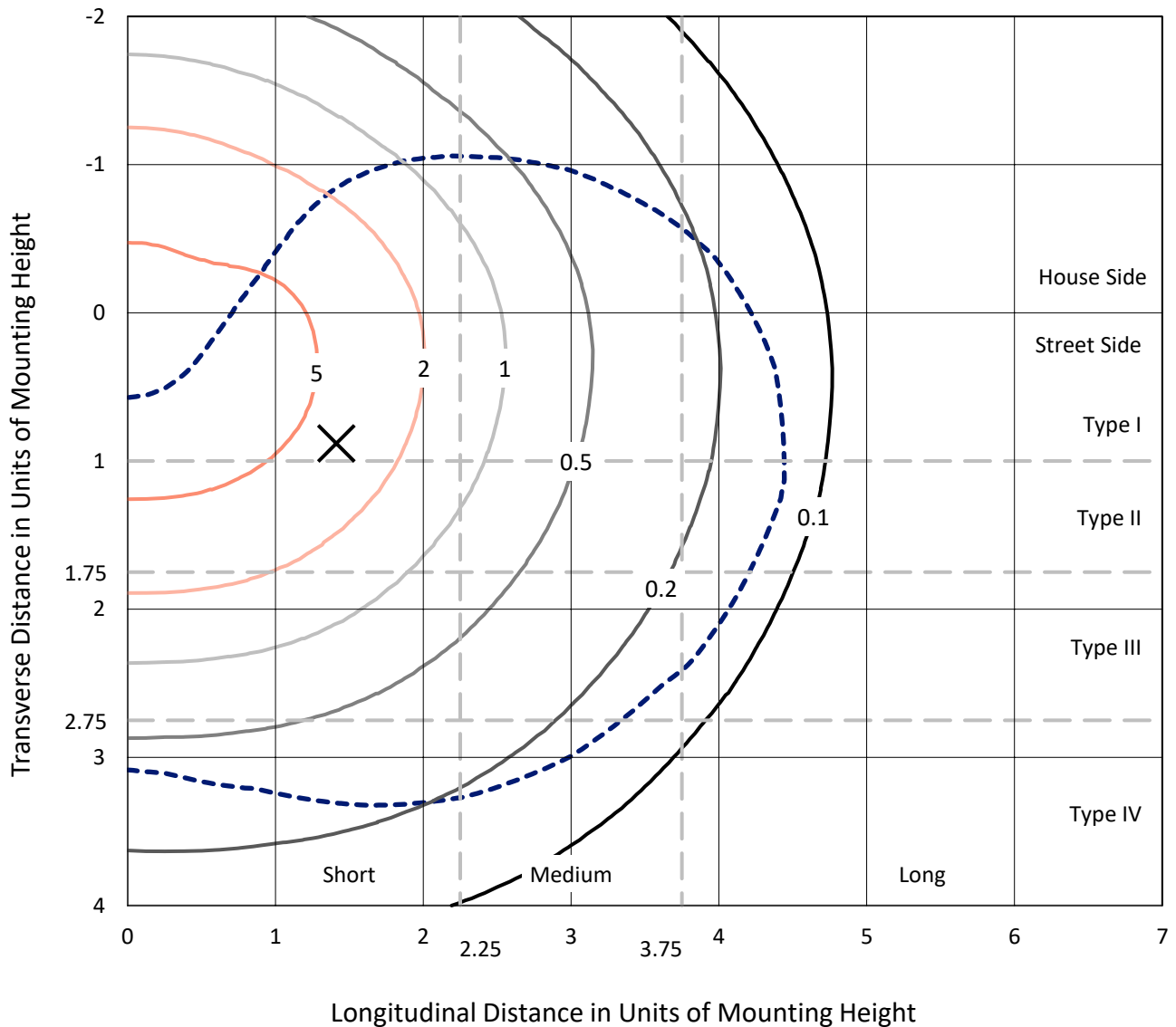
Input Watts (W): 74.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

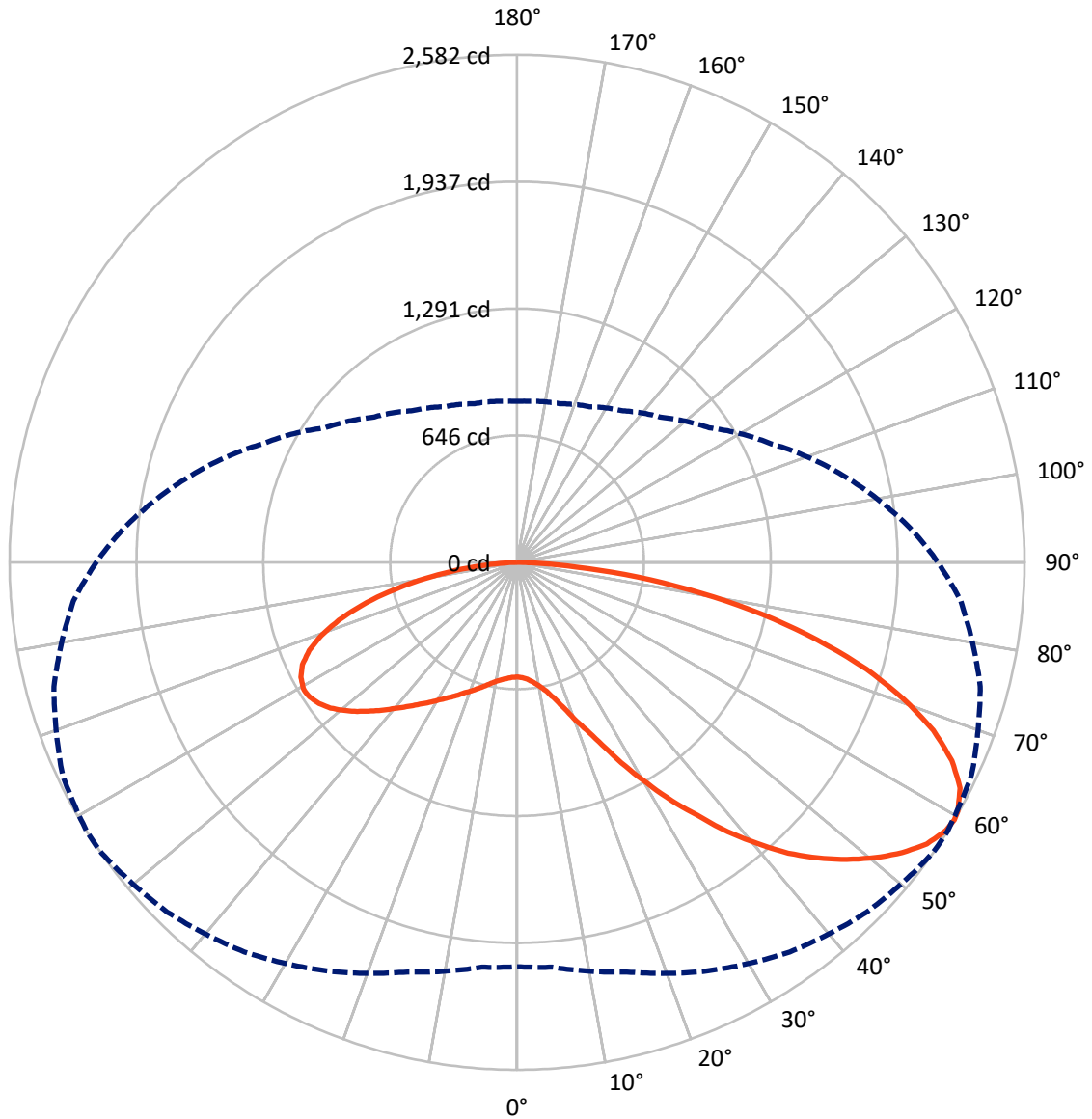
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 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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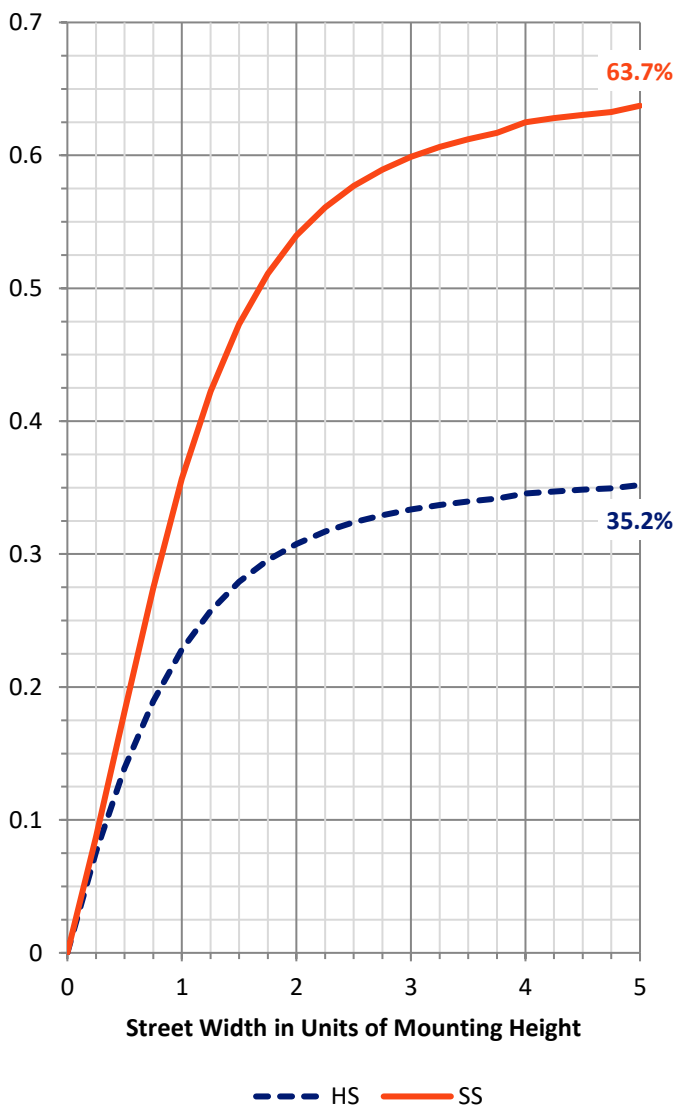
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2594.9	0.0	2594.9
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	4681.1	0.0	4681.1
	% Fixture	64.3	0.0	64.3
Total	Lumens	7276.1	0.0	7276.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	0.8
10°-20°	197.4	2.7
20°-30°	416.6	5.7
30°-40°	766.6	10.5
40°-50°	1195.0	16.4
50°-60°	1570.2	21.6
60°-70°	1645.3	22.6
70°-80°	1140.7	15.7
80°-90°	286.4	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°	7276.1	100.0
0°-180°	7276.1	100.0

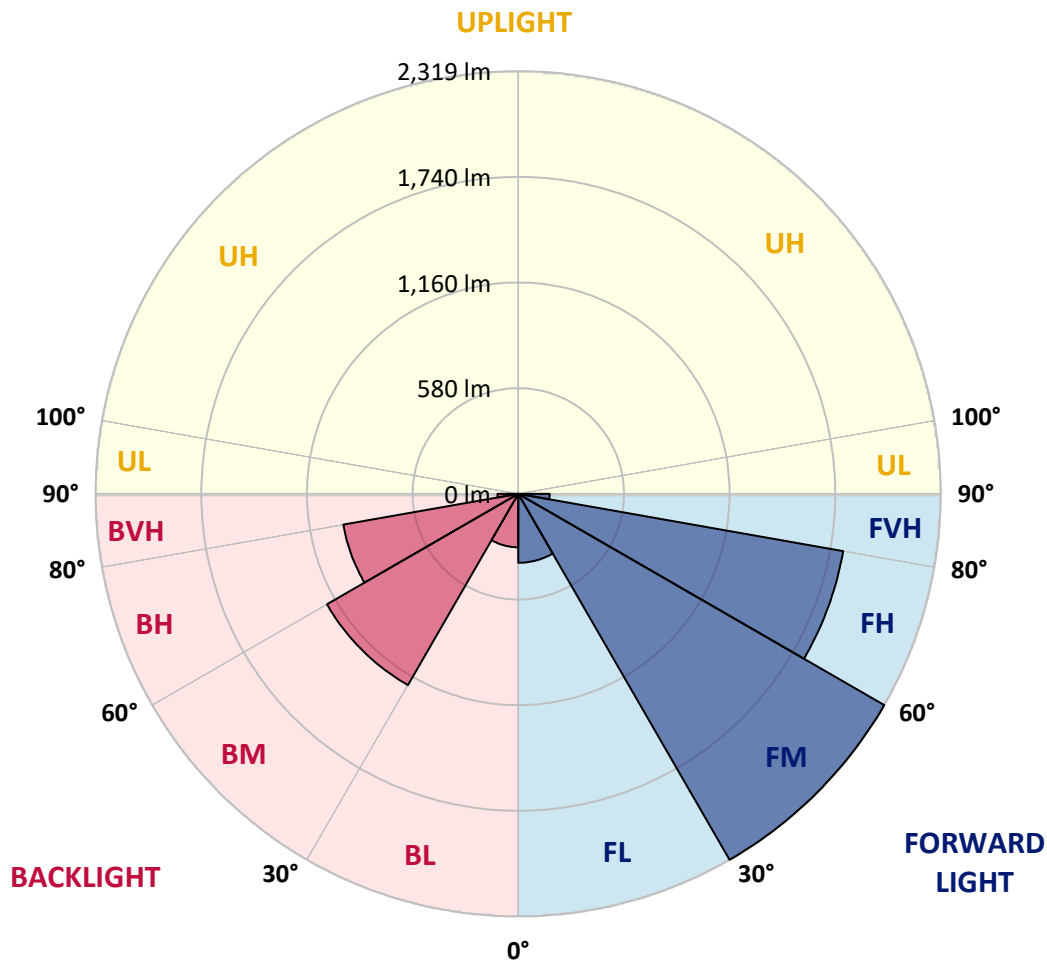


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	378.5	5.2			
FM (30°-60°)	2319.5	31.9			
FH (60°-80°)	1811.0	24.9			G2/5000
FVH (80°-90°)	172.1	2.4			G2/225
BL (0°-30°)	293.3	4.0	B1/500		
BM (30°-60°)	1212.3	16.7	B2/2500		
BH (60°-80°)	975.0	13.4	B2/1000		G2/1000
BVH (80°-90°)	114.3	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°	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3
2.5°	591.5	591.5	591.5	589.8	589.8	589.8	588.2	588.2	588.2	586.6	584.9
5°	604.6	604.6	602.9	604.6	602.9	601.3	599.7	599.7	599.7	598.0	596.4
7.5°	622.6	624.2	622.6	624.2	622.6	621.0	617.7	617.7	616.1	612.8	609.5
10°	650.5	650.5	650.5	648.8	647.2	645.5	643.9	642.3	640.6	635.7	630.8
12.5°	684.9	684.9	684.9	681.6	681.6	678.3	676.7	675.0	671.8	665.2	658.7
15°	727.5	725.8	730.7	730.7	729.1	729.1	724.2	720.9	717.6	707.8	693.1
17.5°	784.8	783.2	788.1	791.4	791.4	793.0	784.8	781.5	770.1	757.0	737.3
20°	861.8	858.5	863.5	866.7	863.5	866.7	858.5	860.2	843.8	820.9	789.7
22.5°	945.4	945.4	950.3	950.3	951.9	955.2	945.4	940.5	927.4	894.6	855.3
25°	1048.6	1056.8	1056.8	1056.8	1063.4	1065.0	1055.2	1047.0	1028.9	984.7	930.6
27.5°	1174.8	1173.1	1171.5	1181.3	1181.3	1184.6	1178.0	1174.8	1153.5	1099.4	1017.5
30°	1309.1	1299.3	1305.8	1309.1	1315.7	1320.6	1314.0	1304.2	1278.0	1219.0	1117.4
32.5°	1432.0	1438.6	1448.4	1451.7	1461.5	1463.1	1446.8	1446.8	1420.5	1345.2	1240.3
35°	1571.3	1571.3	1597.5	1609.0	1609.0	1618.8	1594.2	1581.1	1563.1	1484.4	1351.7
37.5°	1692.5	1695.8	1717.1	1743.3	1746.6	1761.3	1743.3	1738.4	1705.6	1625.3	1477.9
40°	1805.6	1808.8	1835.1	1866.2	1884.2	1907.2	1889.1	1880.9	1846.5	1754.8	1604.0
42.5°	1894.0	1900.6	1933.4	1979.2	2008.7	2036.6	2028.4	2023.5	1976.0	1879.3	1720.4
45°	1961.2	1972.7	2018.6	2072.6	2113.6	2154.6	2156.2	2146.4	2102.1	1994.0	1833.4
47.5°	2015.3	2028.4	2079.2	2148.0	2210.3	2261.1	2270.9	2259.4	2218.5	2105.4	1935.0
50°	2059.5	2066.1	2123.4	2211.9	2288.9	2352.8	2372.5	2362.6	2326.6	2198.8	2023.5
52.5°	2082.5	2092.3	2157.8	2259.4	2352.8	2429.8	2459.3	2454.4	2411.8	2284.0	2102.1
55°	2093.9	2103.8	2180.8	2297.1	2402.0	2492.1	2528.1	2529.8	2488.8	2361.0	2175.9
57.5°	2080.8	2093.9	2177.5	2306.9	2423.3	2519.9	2575.6	2574.0	2541.2	2420.0	2238.1
59°	2057.9	2067.7	2157.8	2293.8	2420.0	2516.7	2580.6	2582.2	2552.7	2439.7	2266.0
60°	2031.7	2043.1	2134.9	2277.4	2406.9	2505.2	2572.4	2575.6	2551.1	2444.6	2277.4
62.5°	1941.6	1956.3	2057.9	2210.3	2351.2	2444.6	2524.9	2529.8	2516.7	2431.5	2285.6
65°	1815.4	1828.5	1938.3	2100.5	2248.0	2344.6	2420.0	2431.5	2429.8	2372.5	2252.9
67.5°	1661.4	1663.0	1766.2	1943.2	2097.2	2192.2	2264.3	2284.0	2298.7	2261.1	2156.2
70°	1476.2	1474.6	1574.5	1749.9	1903.9	2003.8	2075.9	2089.0	2126.7	2097.2	2012.0
72.5°	1246.9	1266.5	1359.9	1507.4	1659.7	1771.2	1835.1	1859.6	1880.9	1887.5	1817.0
75°	1030.6	1051.9	1125.6	1263.2	1394.3	1497.5	1566.4	1577.8	1617.1	1627.0	1561.4
77.5°	824.1	825.8	879.8	989.6	1109.2	1194.4	1250.1	1279.6	1300.9	1320.6	1251.8
80°	578.4	586.6	624.2	702.9	796.3	886.4	932.3	951.9	966.7	979.8	956.9
82.5°	362.1	365.4	390.0	437.5	501.4	552.2	599.7	616.1	619.3	648.8	645.5
85°	172.0	173.7	190.1	213.0	240.9	281.8	299.8	299.8	322.8	344.1	344.1
87.5°	22.9	22.9	27.9	31.1	39.3	50.8	70.5	72.1	85.2	95.0	103.2
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°	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3
2.5°	584.9	584.9	584.9	584.9	584.9	583.3	584.9	584.9	584.9	584.9	584.9
5°	596.4	594.8	593.1	591.5	591.5	589.8	589.8	589.8	589.8	589.8	589.8
7.5°	607.9	606.2	604.6	601.3	599.7	598.0	598.0	596.4	596.4	596.4	596.4
10°	627.5	625.9	619.3	614.4	611.1	609.5	607.9	606.2	604.6	604.6	604.6
12.5°	653.7	650.5	639.0	632.4	627.5	624.2	621.0	619.3	617.7	616.1	616.1
15°	686.5	678.3	663.6	653.7	647.2	642.3	637.4	634.1	632.4	630.8	630.8
17.5°	725.8	716.0	696.3	678.3	666.8	658.7	652.1	647.2	645.5	645.5	645.5
20°	775.0	758.6	730.7	706.2	688.1	676.7	666.8	661.9	660.3	658.7	657.0
22.5°	832.3	811.0	770.1	732.4	709.4	693.1	681.6	675.0	670.1	668.5	668.5
25°	897.9	866.7	812.7	766.8	735.7	712.7	698.0	689.8	681.6	678.3	678.3
27.5°	976.5	935.6	863.5	802.8	760.2	732.4	716.0	704.5	696.3	689.8	686.5
30°	1061.7	1015.8	919.2	842.2	788.1	757.0	737.3	724.2	712.7	701.3	699.6
32.5°	1169.9	1104.3	986.3	886.4	820.9	781.5	758.6	742.2	727.5	716.0	712.7
35°	1279.6	1201.0	1056.8	932.3	852.0	804.5	776.6	758.6	743.9	730.7	729.1
37.5°	1392.7	1309.1	1133.8	986.3	888.0	830.7	796.3	776.6	758.6	745.5	743.9
40°	1510.7	1412.3	1212.5	1042.1	925.7	856.9	817.6	793.0	773.3	761.9	760.2
42.5°	1622.1	1515.6	1297.7	1107.6	970.0	884.8	838.9	812.7	788.1	776.6	775.0
45°	1728.6	1613.9	1382.9	1168.2	1014.2	914.3	860.2	829.1	802.8	791.4	789.7
47.5°	1825.2	1710.5	1461.5	1233.8	1060.1	947.0	883.1	845.4	815.9	804.5	804.5
50°	1912.1	1792.5	1538.5	1294.4	1102.7	979.8	902.8	860.2	830.7	819.2	817.6
52.5°	1994.0	1864.6	1605.7	1346.8	1143.6	1009.3	922.4	871.7	840.5	827.4	825.8
55°	2059.5	1930.1	1661.4	1389.4	1171.5	1028.9	935.6	878.2	843.8	832.3	830.7
57.5°	2116.9	1984.2	1700.7	1418.9	1189.5	1040.4	942.1	878.2	842.2	829.1	827.4
59°	2141.5	2007.1	1713.8	1427.1	1192.8	1042.1	940.5	873.3	835.6	822.5	819.2
60°	2154.6	2016.9	1718.7	1428.7	1191.2	1038.8	938.8	868.4	829.1	814.3	814.3
62.5°	2167.7	2025.1	1712.2	1415.6	1173.1	1020.8	922.4	848.7	804.5	788.1	788.1
65°	2139.8	1995.6	1674.5	1379.6	1137.1	989.6	891.3	815.9	766.8	750.4	750.4
67.5°	2057.9	1923.5	1605.7	1312.4	1078.1	935.6	840.5	763.5	717.6	699.6	694.7
70°	1918.6	1805.6	1497.5	1215.7	997.8	866.7	776.6	702.9	655.4	637.4	630.8
72.5°	1731.8	1620.4	1353.4	1097.8	891.3	776.6	698.0	627.5	575.1	557.1	558.7
75°	1474.6	1396.0	1166.6	948.7	768.4	661.9	596.4	537.4	493.2	478.4	480.1
77.5°	1196.1	1130.5	945.4	773.3	627.5	545.6	489.9	442.4	412.9	404.7	399.8
80°	915.9	852.0	709.4	576.7	476.8	419.4	381.8	349.0	326.1	314.6	317.9
82.5°	614.4	575.1	470.2	381.8	324.4	283.5	270.3	249.0	240.9	234.3	239.2
85°	331.0	296.6	245.8	204.8	178.6	167.1	170.4	168.8	162.2	160.6	165.5
87.5°	108.1	93.4	72.1	60.6	62.3	55.7	55.7	52.4	47.5	45.9	49.2
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)