

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: P472150

Luminaire Tested: **CCW-VA-4-730-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472150
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-4-730-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6139.3 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

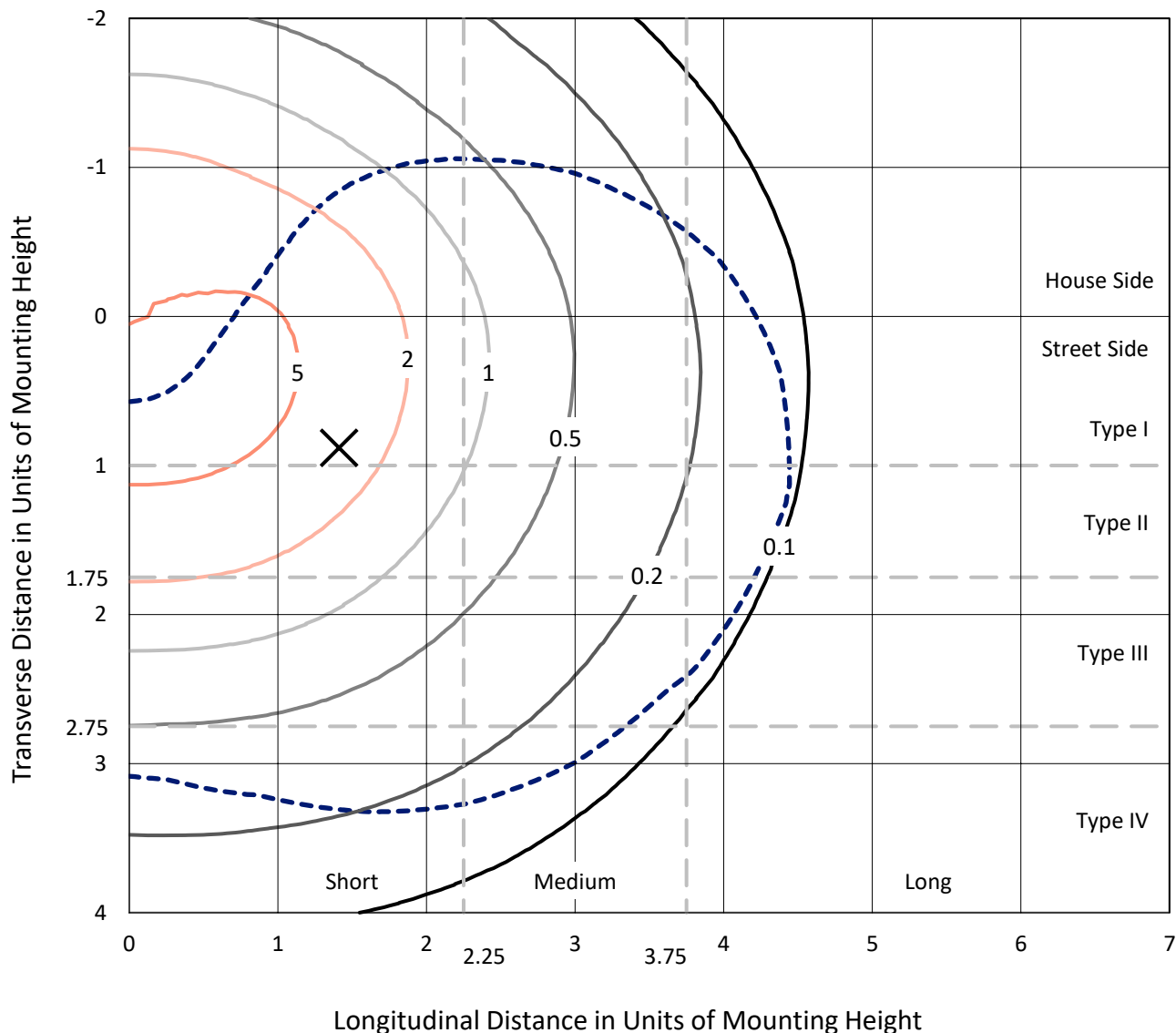
Input Watts (W): 57.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

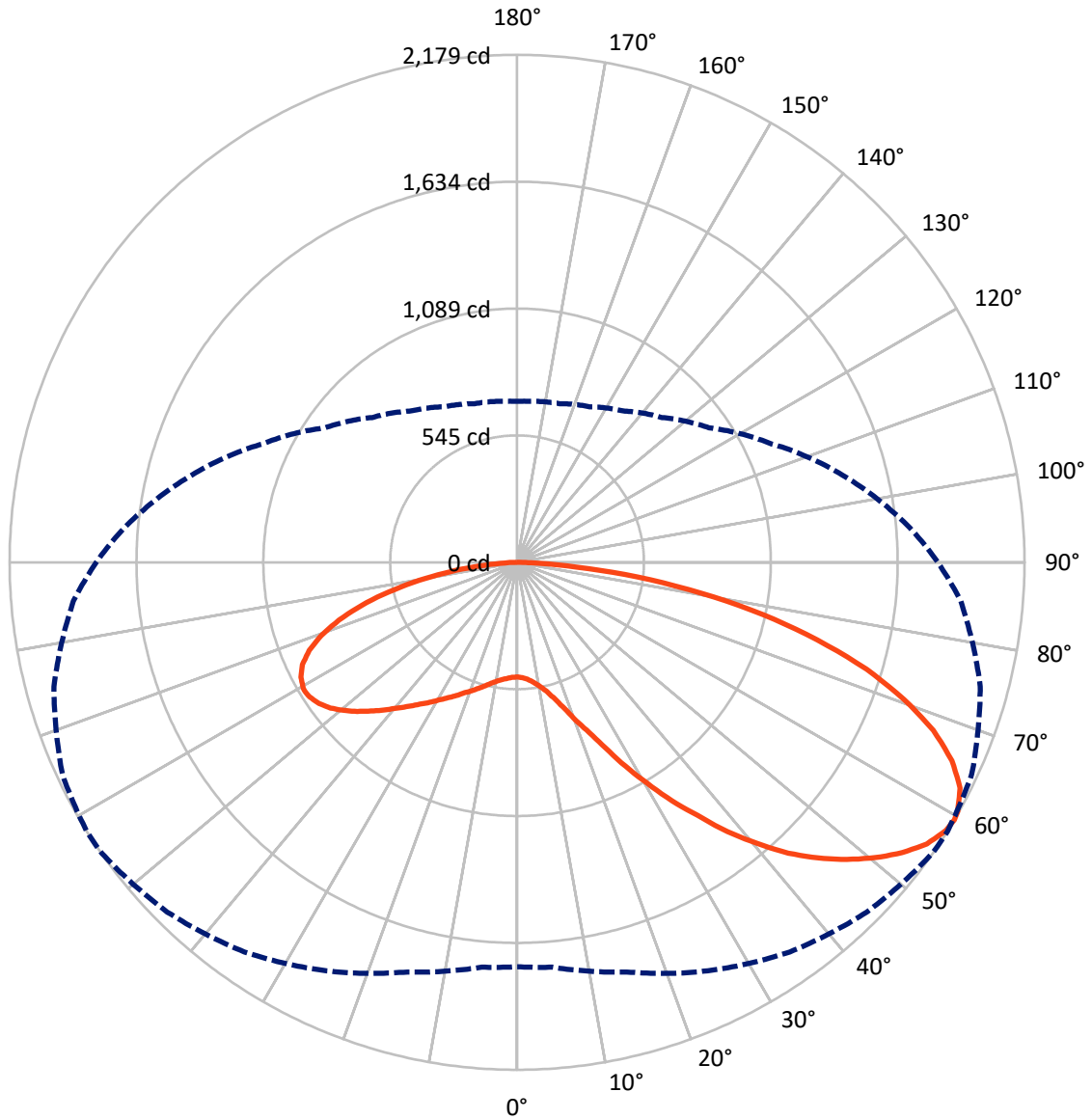
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 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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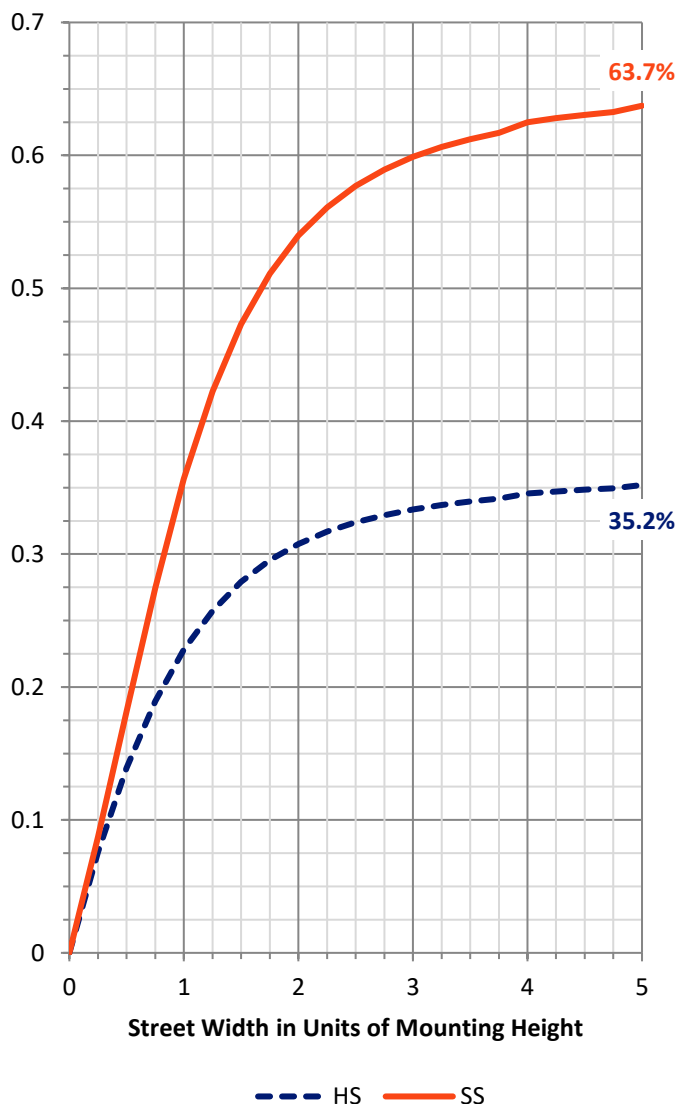
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2189.5	0.0	2189.5
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	3949.8	0.0	3949.8
	% Fixture	64.3	0.0	64.3
Total	Lumens	6139.3	0.0	6139.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	0.8
10°-20°	166.5	2.7
20°-30°	351.5	5.7
30°-40°	646.9	10.5
40°-50°	1008.3	16.4
50°-60°	1324.9	21.6
60°-70°	1388.2	22.6
70°-80°	962.5	15.7
80°-90°	241.7	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°	6139.3	100.0
0°-180°	6139.3	100.0

Coefficient of Utilization

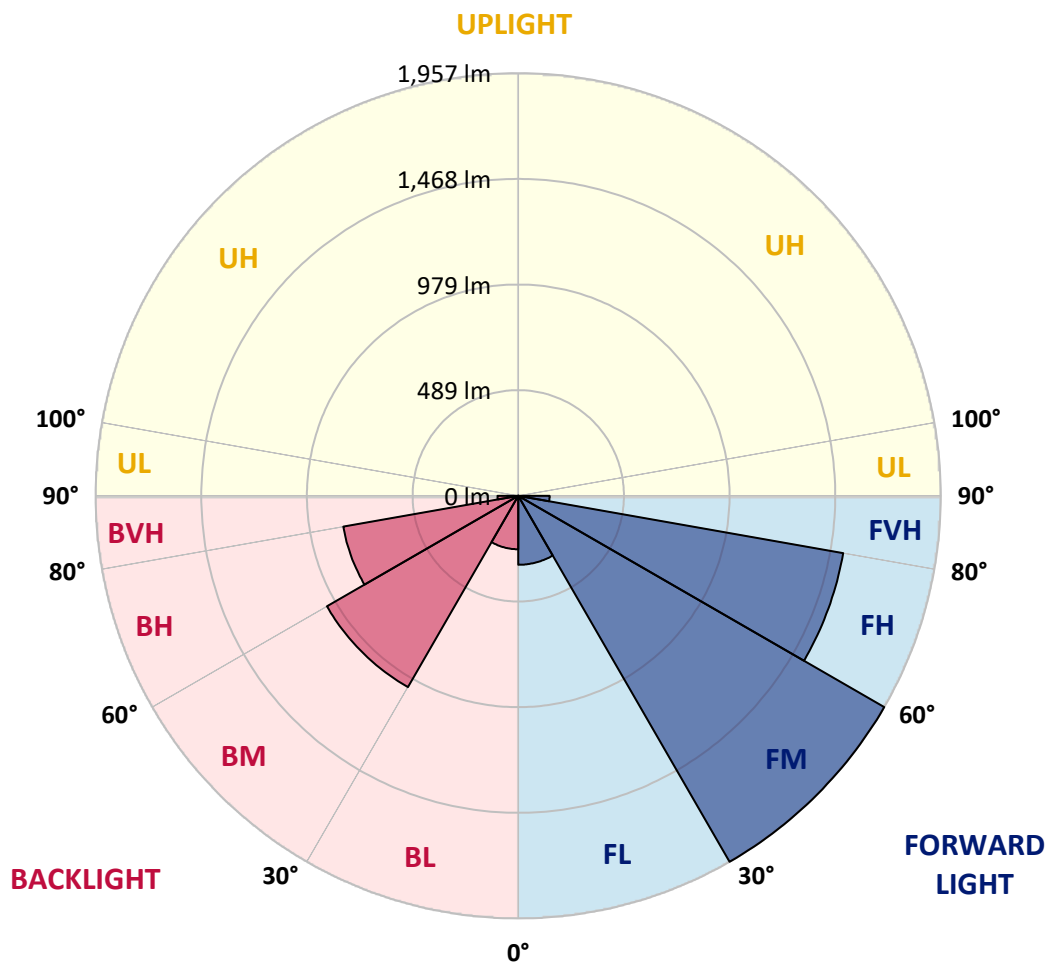


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	319.4	5.2			
FM (30°-60°)	1957.1	31.9			
FH (60°-80°)	1528.1	24.9			G1/1800
FVH (80°-90°)	145.2	2.4			G2/225
BL (0°-30°)	247.5	4.0	B1/500		
BM (30°-60°)	1022.9	16.7	B2/2500		
BH (60°-80°)	822.7	13.4	B2/1000		G2/1000
BVH (80°-90°)	96.5	1.6			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°	45°	55°	58°	65°	75°	85°
0°	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2
2.5°	499.1	499.1	499.1	497.7	497.7	497.7	496.3	496.3	496.3	494.9	493.5
5°	510.1	510.1	508.7	510.1	508.7	507.4	506.0	506.0	506.0	504.6	503.2
7.5°	525.3	526.7	525.3	526.7	525.3	524.0	521.2	521.2	519.8	517.0	514.3
10°	548.8	548.8	548.8	547.5	546.1	544.7	543.3	541.9	540.5	536.4	532.2
12.5°	577.9	577.9	577.9	575.1	575.1	572.3	571.0	569.6	566.8	561.3	555.7
15°	613.8	612.4	616.6	616.6	615.2	615.2	611.0	608.3	605.5	597.2	584.8
17.5°	662.2	660.8	665.0	667.7	667.7	669.1	662.2	659.4	649.8	638.7	622.1
20°	727.2	724.4	728.6	731.3	728.6	731.3	724.4	725.8	712.0	692.6	666.3
22.5°	797.7	797.7	801.8	801.8	803.2	806.0	797.7	793.5	782.5	754.8	721.6
25°	884.8	891.7	891.7	891.7	897.2	898.6	890.3	883.4	868.2	830.9	785.2
27.5°	991.2	989.8	988.5	996.8	996.8	999.5	994.0	991.2	973.3	927.6	858.5
30°	1104.6	1096.3	1101.8	1104.6	1110.1	1114.3	1108.7	1100.4	1078.3	1028.6	942.8
32.5°	1208.3	1213.8	1222.1	1224.9	1233.2	1234.5	1220.7	1220.7	1198.6	1135.0	1046.5
35°	1325.8	1325.8	1347.9	1357.6	1357.6	1365.9	1345.1	1334.1	1318.9	1252.5	1140.5
37.5°	1428.1	1430.8	1448.8	1470.9	1473.7	1486.1	1470.9	1466.8	1439.1	1371.4	1247.0
40°	1523.5	1526.2	1548.4	1574.6	1589.8	1609.2	1594.0	1587.1	1558.0	1480.6	1353.4
42.5°	1598.1	1603.7	1631.3	1670.0	1694.9	1718.4	1711.5	1707.3	1667.2	1585.7	1451.6
45°	1654.8	1664.5	1703.2	1748.8	1783.4	1817.9	1819.3	1811.0	1773.7	1682.5	1547.0
47.5°	1700.4	1711.5	1754.3	1812.4	1864.9	1907.8	1916.1	1906.4	1871.9	1776.5	1632.7
50°	1737.8	1743.3	1791.7	1866.3	1931.3	1985.2	2001.8	1993.5	1963.1	1855.3	1707.3
52.5°	1757.1	1765.4	1820.7	1906.4	1985.2	2050.2	2075.1	2070.9	2035.0	1927.1	1773.7
55°	1766.8	1775.1	1840.1	1938.2	2026.7	2102.7	2133.1	2134.5	2100.0	1992.1	1835.9
57.5°	1755.7	1766.8	1837.3	1946.5	2044.7	2126.2	2173.2	2171.8	2144.2	2041.9	1888.4
59°	1736.4	1744.7	1820.7	1935.4	2041.9	2123.5	2177.4	2178.8	2153.9	2058.5	1911.9
60°	1714.3	1723.9	1801.3	1921.6	2030.8	2113.8	2170.5	2173.2	2152.5	2062.6	1921.6
62.5°	1638.2	1650.7	1736.4	1864.9	1983.8	2062.6	2130.4	2134.5	2123.5	2051.6	1928.5
65°	1531.8	1542.8	1635.5	1772.3	1896.7	1978.3	2041.9	2051.6	2050.2	2001.8	1900.9
67.5°	1401.8	1403.2	1490.3	1639.6	1769.5	1849.7	1910.6	1927.1	1939.6	1907.8	1819.3
70°	1245.6	1244.2	1328.5	1476.5	1606.4	1690.7	1751.6	1762.6	1794.4	1769.5	1697.7
72.5°	1052.1	1068.6	1147.4	1271.9	1400.4	1494.4	1548.4	1569.1	1587.1	1592.6	1533.1
75°	869.6	887.5	949.8	1065.9	1176.5	1263.6	1321.6	1331.3	1364.5	1372.8	1317.5
77.5°	695.4	696.8	742.4	835.0	935.9	1007.8	1054.8	1079.7	1097.7	1114.3	1056.2
80°	488.0	494.9	526.7	593.1	671.9	747.9	786.6	803.2	815.7	826.7	807.4
82.5°	305.5	308.3	329.0	369.1	423.0	465.9	506.0	519.8	522.6	547.5	544.7
85°	145.2	146.5	160.4	179.7	203.2	237.8	253.0	253.0	272.3	290.3	290.3
87.5°	19.4	19.4	23.5	26.3	33.2	42.9	59.4	60.8	71.9	80.2	87.1
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°	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2
2.5°	493.5	493.5	493.5	493.5	493.5	492.2	493.5	493.5	493.5	493.5	493.5
5°	503.2	501.8	500.5	499.1	499.1	497.7	497.7	497.7	497.7	497.7	497.7
7.5°	512.9	511.5	510.1	507.4	506.0	504.6	504.6	503.2	503.2	503.2	503.2
10°	529.5	528.1	522.6	518.4	515.7	514.3	512.9	511.5	510.1	510.1	510.1
12.5°	551.6	548.8	539.2	533.6	529.5	526.7	524.0	522.6	521.2	519.8	519.8
15°	579.3	572.3	559.9	551.6	546.1	541.9	537.8	535.0	533.6	532.2	532.2
17.5°	612.4	604.1	587.5	572.3	562.7	555.7	550.2	546.1	544.7	544.7	544.7
20°	653.9	640.1	616.6	595.8	580.6	571.0	562.7	558.5	557.1	555.7	554.4
22.5°	702.3	684.3	649.8	618.0	598.6	584.8	575.1	569.6	565.4	564.0	564.0
25°	757.6	731.3	685.7	647.0	620.7	601.4	588.9	582.0	575.1	572.3	572.3
27.5°	823.9	789.4	728.6	677.4	641.5	618.0	604.1	594.5	587.5	582.0	579.3
30°	895.8	857.1	775.6	710.6	665.0	638.7	622.1	611.0	601.4	591.7	590.3
32.5°	987.1	931.8	832.2	747.9	692.6	659.4	640.1	626.3	613.8	604.1	601.4
35°	1079.7	1013.3	891.7	786.6	718.9	678.8	655.3	640.1	627.6	616.6	615.2
37.5°	1175.1	1104.6	956.7	832.2	749.3	700.9	671.9	655.3	640.1	629.0	627.6
40°	1274.6	1191.7	1023.0	879.2	781.1	723.0	689.8	669.1	652.5	642.8	641.5
42.5°	1368.6	1278.8	1094.9	934.5	818.4	746.5	707.8	685.7	665.0	655.3	653.9
45°	1458.5	1361.7	1166.8	985.7	855.7	771.4	725.8	699.5	677.4	667.7	666.3
47.5°	1540.1	1443.3	1233.2	1041.0	894.5	799.1	745.1	713.3	688.5	678.8	678.8
50°	1613.3	1512.4	1298.1	1092.1	930.4	826.7	761.7	725.8	700.9	691.2	689.8
52.5°	1682.5	1573.2	1354.8	1136.4	965.0	851.6	778.3	735.5	709.2	698.1	696.8
55°	1737.8	1628.5	1401.8	1172.3	988.5	868.2	789.4	741.0	712.0	702.3	700.9
57.5°	1786.1	1674.2	1435.0	1197.2	1003.7	877.9	794.9	741.0	710.6	699.5	698.1
59°	1806.9	1693.5	1446.1	1204.1	1006.4	879.2	793.5	736.9	705.1	694.0	691.2
60°	1817.9	1701.8	1450.2	1205.5	1005.0	876.5	792.1	732.7	699.5	687.1	687.1
62.5°	1829.0	1708.7	1444.7	1194.4	989.8	861.3	778.3	716.1	678.8	665.0	665.0
65°	1805.5	1683.8	1412.9	1164.0	959.4	835.0	752.1	688.5	647.0	633.2	633.2
67.5°	1736.4	1623.0	1354.8	1107.4	909.7	789.4	709.2	644.2	605.5	590.3	586.2
70°	1618.9	1523.5	1263.6	1025.8	841.9	731.3	655.3	593.1	553.0	537.8	532.2
72.5°	1461.3	1367.3	1141.9	926.2	752.1	655.3	588.9	529.5	485.2	470.0	471.4
75°	1244.2	1177.9	984.3	800.4	648.4	558.5	503.2	453.4	416.1	403.7	405.1
77.5°	1009.2	953.9	797.7	652.5	529.5	460.4	413.4	373.3	348.4	341.5	337.3
80°	772.8	718.9	598.6	486.6	402.3	353.9	322.1	294.5	275.1	265.4	268.2
82.5°	518.4	485.2	396.8	322.1	273.7	239.2	228.1	210.1	203.2	197.7	201.8
85°	279.3	250.2	207.4	172.8	150.7	141.0	143.8	142.4	136.9	135.5	139.6
87.5°	91.2	78.8	60.8	51.2	52.5	47.0	47.0	44.2	40.1	38.7	41.5
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)