

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: P472198

Luminaire Tested: **CCW-VA-4-840-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472198
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-4-840-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6056.3 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

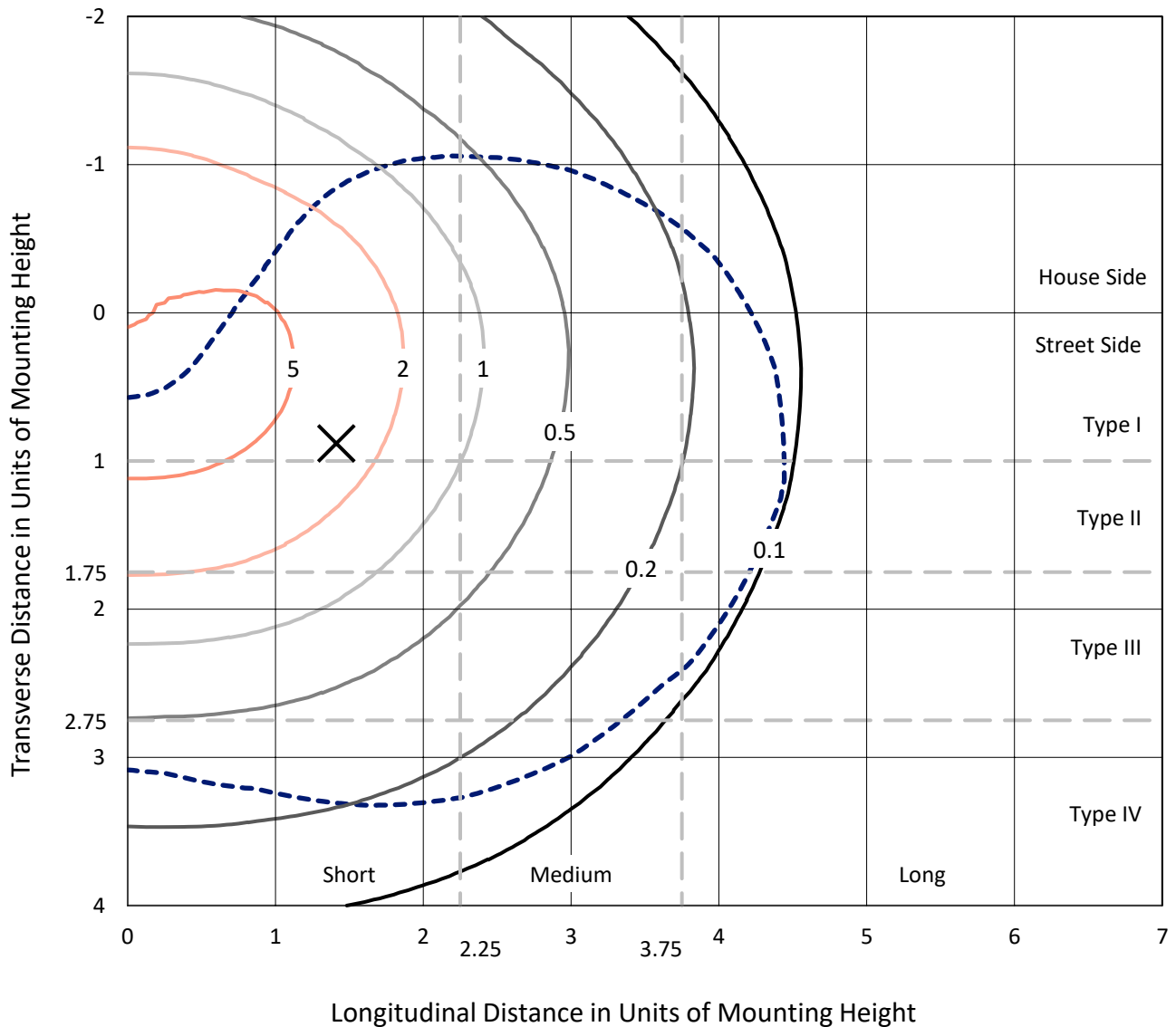
Input Watts (W): 57.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

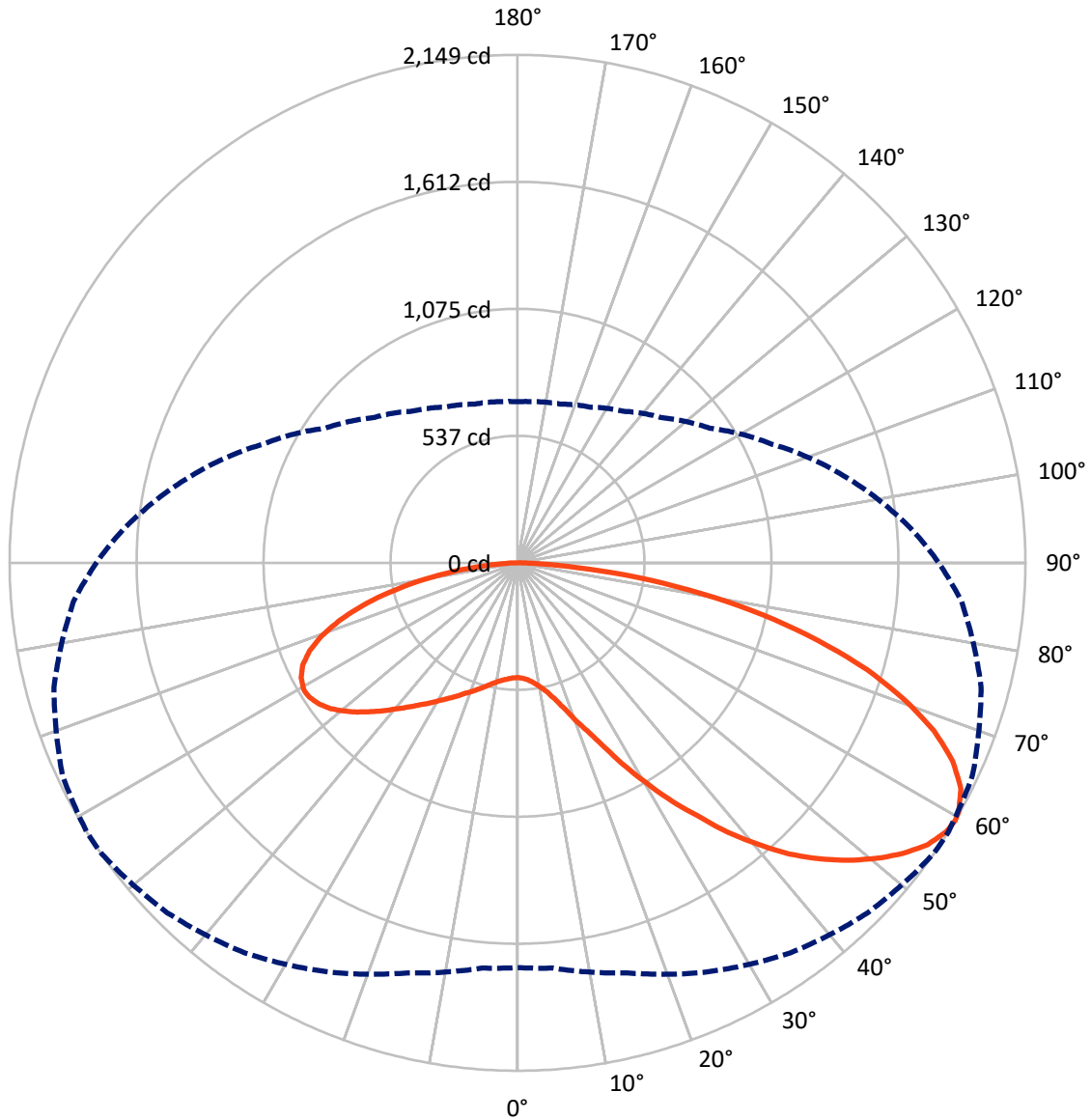
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 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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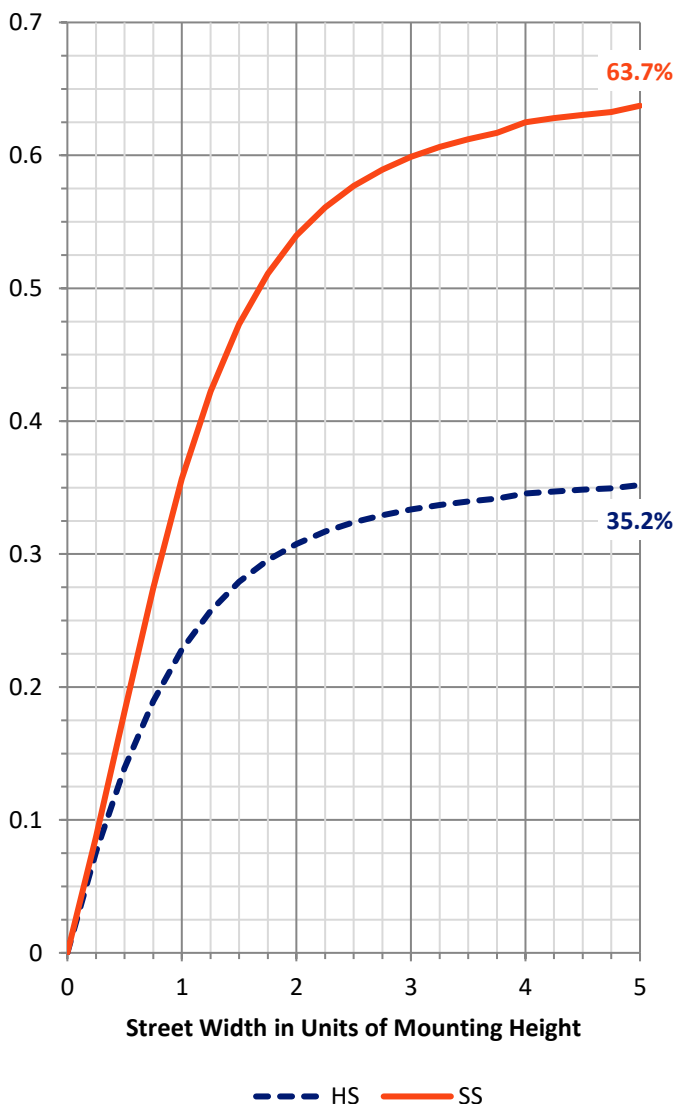
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2159.9	0.0	2159.9
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	3896.4	0.0	3896.4
	% Fixture	64.3	0.0	64.3
Total	Lumens	6056.3	0.0	6056.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	0.8
10°-20°	164.3	2.7
20°-30°	346.7	5.7
30°-40°	638.1	10.5
40°-50°	994.6	16.4
50°-60°	1307.0	21.6
60°-70°	1369.5	22.6
70°-80°	949.5	15.7
80°-90°	238.4	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°	6056.3	100.0
0°-180°	6056.3	100.0

Coefficient of Utilization

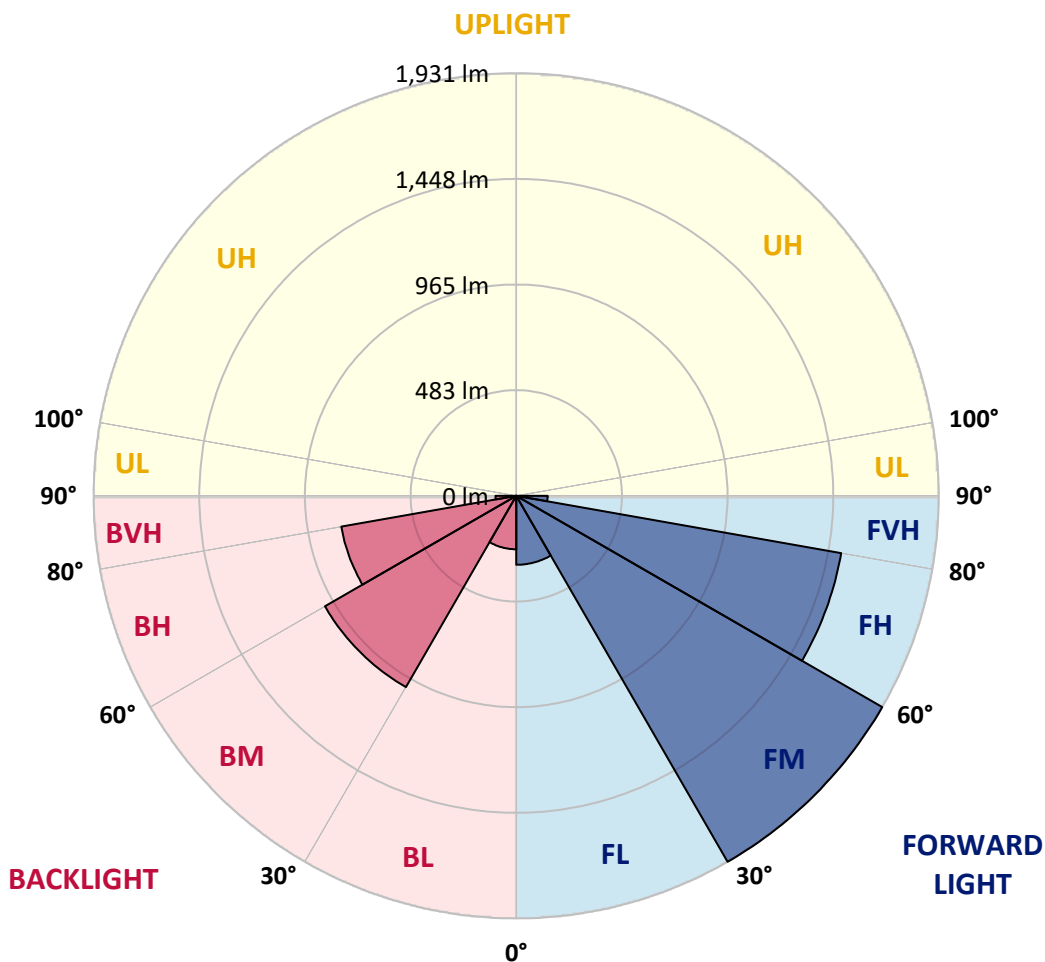


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.1	5.2			
FM (30°-60°)	1930.6	31.9			
FH (60°-80°)	1507.4	24.9			G1/1800
FVH (80°-90°)	143.3	2.4			G2/225
BL (0°-30°)	244.1	4.0	B1/500		
BM (30°-60°)	1009.1	16.7	B2/2500		
BH (60°-80°)	811.5	13.4	B2/1000		G2/1000
BVH (80°-90°)	95.2	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°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	492.3	492.3	492.3	491.0	491.0	491.0	489.6	489.6	489.6	488.2	486.9
5°	503.2	503.2	501.9	503.2	501.9	500.5	499.1	499.1	499.1	497.8	496.4
7.5°	518.2	519.6	518.2	519.6	518.2	516.9	514.1	514.1	512.8	510.1	507.3
10°	541.4	541.4	541.4	540.1	538.7	537.3	536.0	534.6	533.2	529.1	525.1
12.5°	570.1	570.1	570.1	567.3	567.3	564.6	563.2	561.9	559.2	553.7	548.2
15°	605.5	604.2	608.2	608.2	606.9	606.9	602.8	600.1	597.3	589.2	576.9
17.5°	653.3	651.9	656.0	658.7	658.7	660.1	653.3	650.5	641.0	630.1	613.7
20°	717.3	714.6	718.7	721.4	718.7	721.4	714.6	716.0	702.3	683.3	657.3
22.5°	786.9	786.9	791.0	791.0	792.4	795.1	786.9	782.8	771.9	744.6	711.9
25°	872.8	879.6	879.6	879.6	885.1	886.5	878.3	871.5	856.5	819.6	774.6
27.5°	977.8	976.5	975.1	983.3	983.3	986.0	980.6	977.8	960.1	915.1	846.9
30°	1089.7	1081.5	1086.9	1089.7	1095.1	1099.2	1093.8	1085.6	1063.8	1014.7	930.1
32.5°	1191.9	1197.4	1205.6	1208.3	1216.5	1217.9	1204.2	1204.2	1182.4	1119.7	1032.4
35°	1307.9	1307.9	1329.7	1339.2	1339.2	1347.4	1327.0	1316.1	1301.0	1235.6	1125.1
37.5°	1408.8	1411.5	1429.2	1451.1	1453.8	1466.1	1451.1	1447.0	1419.7	1352.9	1230.1
40°	1502.9	1505.6	1527.4	1553.3	1568.3	1587.4	1572.4	1565.6	1537.0	1460.6	1335.1
42.5°	1576.5	1582.0	1609.3	1647.4	1672.0	1695.2	1688.4	1684.3	1644.7	1564.3	1432.0
45°	1632.4	1642.0	1680.2	1725.2	1759.3	1793.4	1794.7	1786.6	1749.7	1659.7	1526.1
47.5°	1677.5	1688.4	1730.6	1787.9	1839.7	1882.0	1890.2	1880.7	1846.6	1752.5	1610.6
50°	1714.3	1719.7	1767.5	1841.1	1905.2	1958.4	1974.8	1966.6	1936.6	1830.2	1684.3
52.5°	1733.4	1741.6	1796.1	1880.7	1958.4	2022.5	2047.0	2042.9	2007.5	1901.1	1749.7
55°	1742.9	1751.1	1815.2	1912.0	1999.3	2074.3	2104.3	2105.7	2071.6	1965.2	1811.1
57.5°	1732.0	1742.9	1812.5	1920.2	2017.0	2097.5	2143.9	2142.5	2115.2	2014.3	1862.9
59°	1712.9	1721.1	1796.1	1909.3	2014.3	2094.8	2148.0	2149.3	2124.8	2030.7	1886.1
60°	1691.1	1700.6	1777.0	1895.7	2003.4	2085.2	2141.1	2143.9	2123.4	2034.8	1895.7
62.5°	1616.1	1628.4	1712.9	1839.7	1957.0	2034.8	2101.6	2105.7	2094.8	2023.9	1902.5
65°	1511.1	1522.0	1613.4	1748.4	1871.1	1951.6	2014.3	2023.9	2022.5	1974.8	1875.2
67.5°	1382.9	1384.2	1470.2	1617.4	1745.6	1824.7	1884.7	1901.1	1913.4	1882.0	1794.7
70°	1228.8	1227.4	1310.6	1456.5	1584.7	1667.9	1727.9	1738.8	1770.2	1745.6	1674.7
72.5°	1037.8	1054.2	1131.9	1254.7	1381.5	1474.2	1527.4	1547.9	1565.6	1571.1	1512.4
75°	857.8	875.5	936.9	1051.5	1160.6	1246.5	1303.8	1313.3	1346.1	1354.2	1299.7
77.5°	686.0	687.3	732.4	823.7	923.3	994.2	1040.6	1065.1	1082.8	1099.2	1041.9
80°	481.4	488.2	519.6	585.1	662.8	737.8	776.0	792.4	804.6	815.5	796.4
82.5°	301.4	304.1	324.6	364.1	417.3	459.6	499.1	512.8	515.5	540.1	537.3
85°	143.2	144.6	158.2	177.3	200.5	234.6	249.6	249.6	268.7	286.4	286.4
87.5°	19.1	19.1	23.2	25.9	32.7	42.3	58.6	60.0	70.9	79.1	85.9
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°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	486.9	486.9	486.9	486.9	486.9	485.5	486.9	486.9	486.9	486.9	486.9
5°	496.4	495.1	493.7	492.3	492.3	491.0	491.0	491.0	491.0	491.0	491.0
7.5°	506.0	504.6	503.2	500.5	499.1	497.8	497.8	496.4	496.4	496.4	496.4
10°	522.3	521.0	515.5	511.4	508.7	507.3	506.0	504.6	503.2	503.2	503.2
12.5°	544.1	541.4	531.9	526.4	522.3	519.6	516.9	515.5	514.1	512.8	512.8
15°	571.4	564.6	552.3	544.1	538.7	534.6	530.5	527.8	526.4	525.1	525.1
17.5°	604.2	596.0	579.6	564.6	555.1	548.2	542.8	538.7	537.3	537.3	537.3
20°	645.1	631.4	608.2	587.8	572.8	563.2	555.1	551.0	549.6	548.2	546.9
22.5°	692.8	675.1	641.0	609.6	590.5	576.9	567.3	561.9	557.8	556.4	556.4
25°	747.4	721.4	676.4	638.3	612.3	593.2	581.0	574.2	567.3	564.6	564.6
27.5°	812.8	778.7	718.7	668.3	632.8	609.6	596.0	586.4	579.6	574.2	571.4
30°	883.7	845.5	765.1	701.0	656.0	630.1	613.7	602.8	593.2	583.7	582.3
32.5°	973.7	919.2	821.0	737.8	683.3	650.5	631.4	617.8	605.5	596.0	593.2
35°	1065.1	999.7	879.6	776.0	709.2	669.6	646.4	631.4	619.2	608.2	606.9
37.5°	1159.2	1089.7	943.7	821.0	739.2	691.4	662.8	646.4	631.4	620.5	619.2
40°	1257.4	1175.6	1009.2	867.4	770.5	713.3	680.5	660.1	643.7	634.2	632.8
42.5°	1350.1	1261.5	1080.1	921.9	807.4	736.4	698.3	676.4	656.0	646.4	645.1
45°	1438.8	1343.3	1151.0	972.4	844.2	761.0	716.0	690.1	668.3	658.7	657.3
47.5°	1519.3	1423.8	1216.5	1026.9	882.4	788.3	735.1	703.7	679.2	669.6	669.6
50°	1591.5	1492.0	1280.6	1077.4	917.8	815.5	751.4	716.0	691.4	681.9	680.5
52.5°	1659.7	1552.0	1336.5	1121.0	951.9	840.1	767.8	725.5	699.6	688.7	687.3
55°	1714.3	1606.5	1382.9	1156.5	975.1	856.5	778.7	731.0	702.3	692.8	691.4
57.5°	1762.0	1651.5	1415.6	1181.0	990.1	866.0	784.2	731.0	701.0	690.1	688.7
59°	1782.5	1670.6	1426.5	1187.9	992.8	867.4	782.8	726.9	695.5	684.6	681.9
60°	1793.4	1678.8	1430.6	1189.2	991.5	864.6	781.4	722.8	690.1	677.8	677.8
62.5°	1804.3	1685.6	1425.2	1178.3	976.5	849.6	767.8	706.4	669.6	656.0	656.0
65°	1781.1	1661.1	1393.8	1148.3	946.5	823.7	741.9	679.2	638.3	624.6	624.6
67.5°	1712.9	1601.1	1336.5	1092.4	897.4	778.7	699.6	635.5	597.3	582.3	578.2
70°	1597.0	1502.9	1246.5	1011.9	830.5	721.4	646.4	585.1	545.5	530.5	525.1
72.5°	1441.5	1348.8	1126.5	913.7	741.9	646.4	581.0	522.3	478.7	463.7	465.0
75°	1227.4	1161.9	971.0	789.6	639.6	551.0	496.4	447.3	410.5	398.2	399.6
77.5°	995.6	941.0	786.9	643.7	522.3	454.1	407.8	368.2	343.7	336.9	332.8
80°	762.4	709.2	590.5	480.1	396.9	349.1	317.8	290.5	271.4	261.8	264.6
82.5°	511.4	478.7	391.4	317.8	270.0	235.9	225.0	207.3	200.5	195.0	199.1
85°	275.5	246.8	204.6	170.5	148.7	139.1	141.8	140.5	135.0	133.7	137.7
87.5°	90.0	77.7	60.0	50.5	51.8	46.4	46.4	43.6	39.5	38.2	40.9
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)