

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: P472144

Luminaire Tested: **CCW-VA-4-727-U-T4W**

Issue Date: 01/27/2021

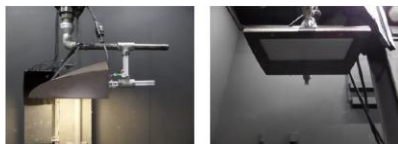
Test Information

Test Method: LM-79-08
Report Number: P472144
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-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: 5787.2 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

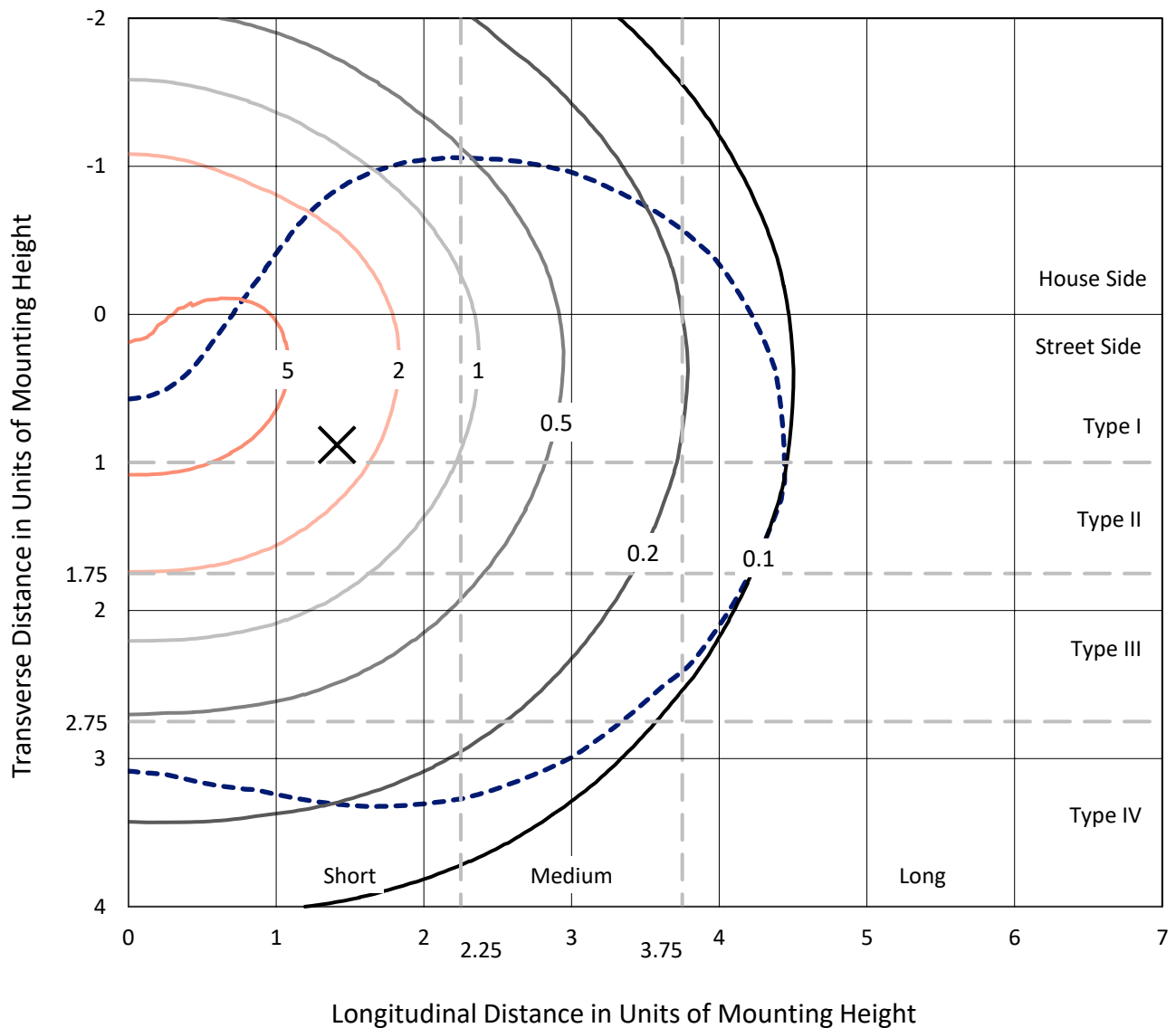
Input Watts (W): 57.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

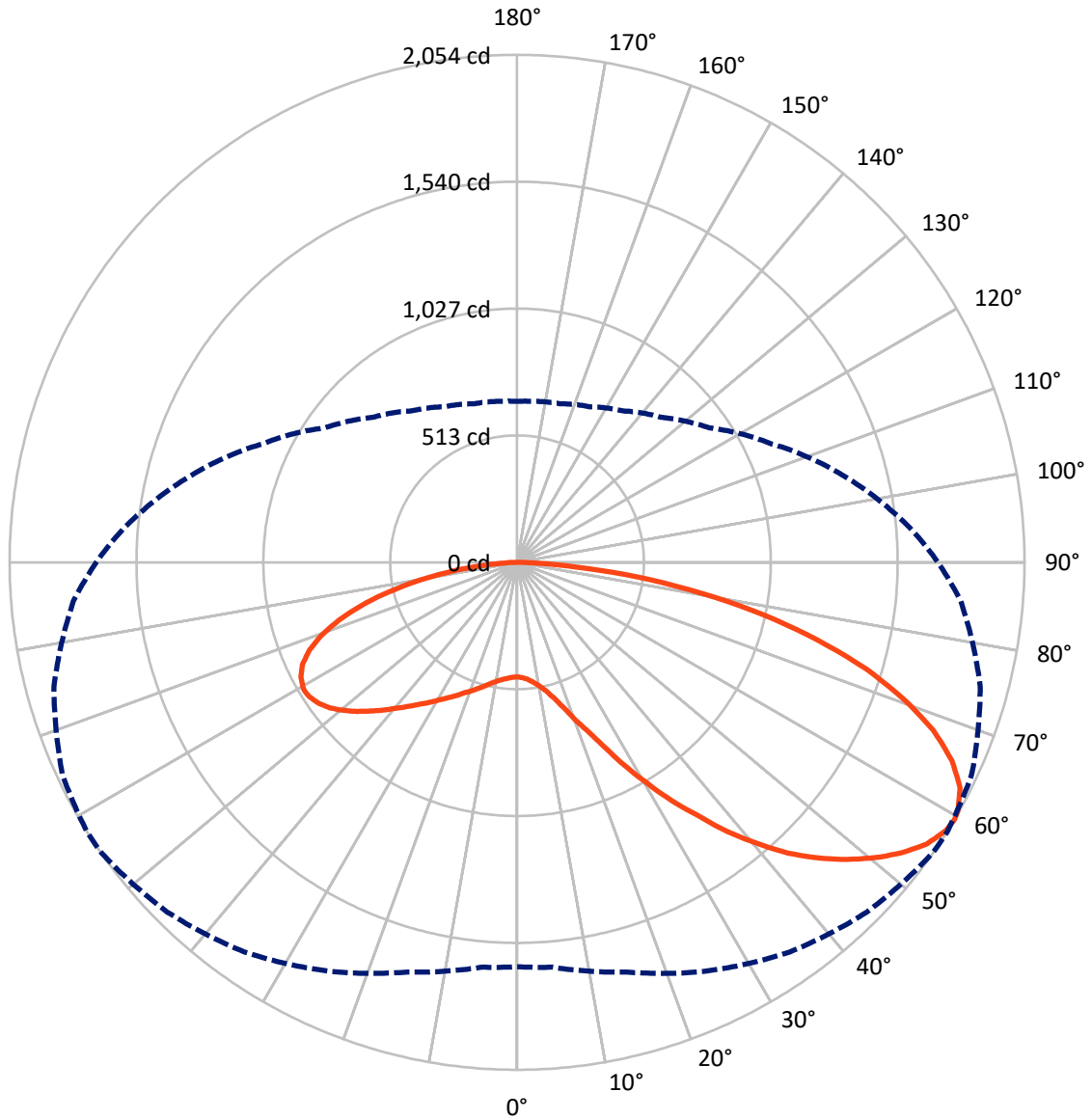
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 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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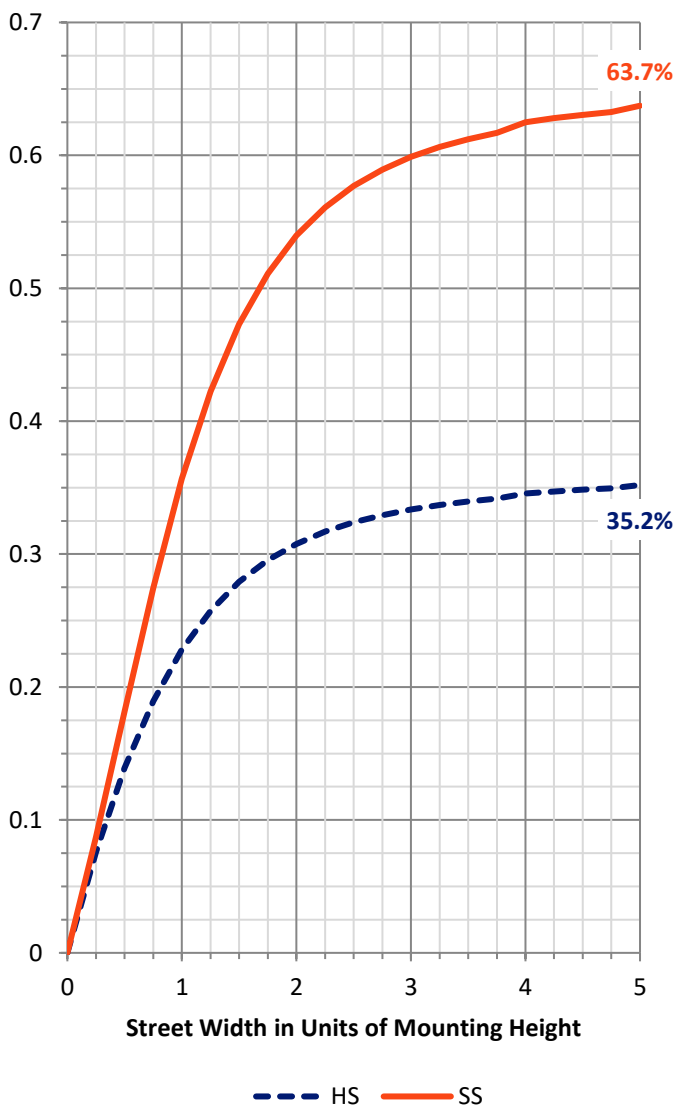
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2063.9	0.0	2063.9
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	3723.3	0.0	3723.3
	% Fixture	64.3	0.0	64.3
Total	Lumens	5787.2	0.0	5787.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	0.8
10°-20°	157.0	2.7
20°-30°	331.3	5.7
30°-40°	609.8	10.5
40°-50°	950.4	16.4
50°-60°	1248.9	21.6
60°-70°	1308.6	22.6
70°-80°	907.3	15.7
80°-90°	227.8	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°	5787.2	100.0
0°-180°	5787.2	100.0



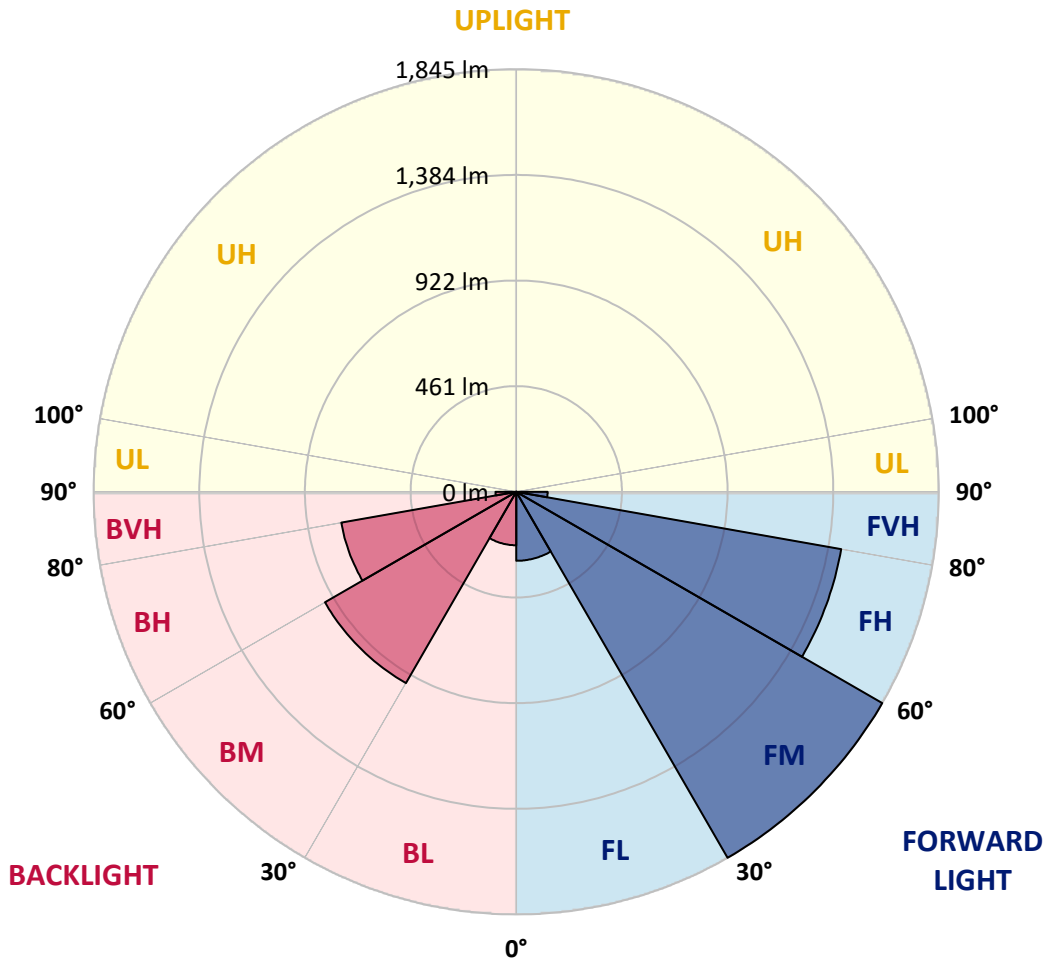
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	301.1	5.2			
FM (30°-60°)	1844.9	31.9			
FH (60°-80°)	1440.5	24.9			G1/1800
FVH (80°-90°)	136.9	2.4			G2/225
BL (0°-30°)	233.3	4.0	B1/500		
BM (30°-60°)	964.2	16.7	B1/1000		
BH (60°-80°)	775.5	13.4	B2/1000		G2/1000
BVH (80°-90°)	90.9	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°	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9
2.5°	470.5	470.5	470.5	469.1	469.1	469.1	467.8	467.8	467.8	466.5	465.2
5°	480.9	480.9	479.6	480.9	479.6	478.3	477.0	477.0	477.0	475.7	474.4
7.5°	495.2	496.5	495.2	496.5	495.2	493.9	491.3	491.3	490.0	487.4	484.8
10°	517.4	517.4	517.4	516.1	514.8	513.5	512.2	510.8	509.5	505.6	501.7
12.5°	544.7	544.7	544.7	542.1	542.1	539.5	538.2	536.9	534.3	529.1	523.9
15°	578.6	577.3	581.2	581.2	579.9	579.9	576.0	573.4	570.8	563.0	551.2
17.5°	624.2	622.9	626.8	629.4	629.4	630.7	624.2	621.6	612.5	602.1	586.4
20°	685.5	682.9	686.8	689.4	686.8	689.4	682.9	684.2	671.1	652.9	628.1
22.5°	751.9	751.9	755.8	755.8	757.2	759.8	751.9	748.0	737.6	711.5	680.3
25°	834.0	840.6	840.6	840.6	845.8	847.1	839.3	832.7	818.4	783.2	740.2
27.5°	934.4	933.1	931.8	939.6	939.6	942.2	937.0	934.4	917.4	874.4	809.3
30°	1041.2	1033.4	1038.6	1041.2	1046.5	1050.4	1045.2	1037.3	1016.5	969.6	888.8
32.5°	1139.0	1144.2	1152.0	1154.6	1162.4	1163.7	1150.7	1150.7	1129.9	1069.9	986.5
35°	1249.8	1249.8	1270.6	1279.7	1279.7	1287.5	1268.0	1257.6	1243.2	1180.7	1075.1
37.5°	1346.2	1348.8	1365.7	1386.6	1389.2	1400.9	1386.6	1382.7	1356.6	1292.8	1175.5
40°	1436.1	1438.7	1459.6	1484.3	1498.7	1516.9	1502.6	1496.1	1468.7	1395.7	1275.8
42.5°	1506.5	1511.7	1537.8	1574.2	1597.7	1619.9	1613.3	1609.4	1571.6	1494.8	1368.3
45°	1559.9	1569.0	1605.5	1648.5	1681.1	1713.7	1715.0	1707.2	1672.0	1586.0	1458.3
47.5°	1602.9	1613.3	1653.7	1708.5	1758.0	1798.4	1806.2	1797.1	1764.5	1674.6	1539.1
50°	1638.1	1643.3	1688.9	1759.3	1820.6	1871.4	1887.0	1879.2	1850.5	1748.9	1609.4
52.5°	1656.3	1664.2	1716.3	1797.1	1871.4	1932.6	1956.1	1952.2	1918.3	1816.6	1672.0
55°	1665.5	1673.3	1734.5	1827.1	1910.5	1982.1	2010.8	2012.1	1979.5	1877.9	1730.6
57.5°	1655.0	1665.5	1731.9	1834.9	1927.4	2004.3	2048.6	2047.3	2021.2	1924.8	1780.2
59°	1636.8	1644.6	1716.3	1824.5	1924.8	2001.7	2052.5	2053.8	2030.4	1940.4	1802.3
60°	1616.0	1625.1	1698.1	1811.4	1914.4	1992.6	2046.0	2048.6	2029.1	1944.4	1811.4
62.5°	1544.3	1556.0	1636.8	1758.0	1870.1	1944.4	2008.2	2012.1	2001.7	1933.9	1817.9
65°	1443.9	1454.4	1541.7	1670.7	1788.0	1864.9	1924.8	1933.9	1932.6	1887.0	1791.9
67.5°	1321.4	1322.7	1404.8	1545.6	1668.1	1743.7	1801.0	1816.6	1828.4	1798.4	1715.0
70°	1174.2	1172.9	1252.4	1391.8	1514.3	1593.8	1651.1	1661.6	1691.5	1668.1	1600.3
72.5°	991.7	1007.4	1081.6	1198.9	1320.1	1408.7	1459.6	1479.1	1496.1	1501.3	1445.2
75°	819.7	836.6	895.3	1004.8	1109.0	1191.1	1245.8	1255.0	1286.2	1294.1	1241.9
77.5°	655.5	656.8	699.8	787.1	882.3	950.0	994.3	1017.8	1034.7	1050.4	995.6
80°	460.0	466.5	496.5	559.1	633.3	705.0	741.5	757.2	768.9	779.3	761.1
82.5°	288.0	290.6	310.2	348.0	398.8	439.2	477.0	490.0	492.6	516.1	513.5
85°	136.8	138.1	151.2	169.4	191.6	224.1	238.5	238.5	256.7	273.7	273.7
87.5°	18.2	18.2	22.2	24.8	31.3	40.4	56.0	57.3	67.8	75.6	82.1
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°	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9
2.5°	465.2	465.2	465.2	465.2	465.2	463.9	465.2	465.2	465.2	465.2	465.2
5°	474.4	473.1	471.8	470.5	470.5	469.1	469.1	469.1	469.1	469.1	469.1
7.5°	483.5	482.2	480.9	478.3	477.0	475.7	475.7	474.4	474.4	474.4	474.4
10°	499.1	497.8	492.6	488.7	486.1	484.8	483.5	482.2	480.9	480.9	480.9
12.5°	520.0	517.4	508.2	503.0	499.1	496.5	493.9	492.6	491.3	490.0	490.0
15°	546.0	539.5	527.8	520.0	514.8	510.8	506.9	504.3	503.0	501.7	501.7
17.5°	577.3	569.5	553.9	539.5	530.4	523.9	518.7	514.8	513.5	513.5	513.5
20°	616.4	603.4	581.2	561.7	547.3	538.2	530.4	526.5	525.2	523.9	522.6
22.5°	662.0	645.1	612.5	582.5	564.3	551.2	542.1	536.9	533.0	531.7	531.7
25°	714.1	689.4	646.4	609.9	585.1	566.9	555.2	548.6	542.1	539.5	539.5
27.5°	776.7	744.1	686.8	638.6	604.7	582.5	569.5	560.4	553.9	548.6	546.0
30°	844.5	808.0	731.1	669.8	626.8	602.1	586.4	576.0	566.9	557.8	556.5
32.5°	930.5	878.3	784.5	705.0	652.9	621.6	603.4	590.3	578.6	569.5	566.9
35°	1017.8	955.2	840.6	741.5	677.7	639.9	617.7	603.4	591.6	581.2	579.9
37.5°	1107.7	1041.2	901.8	784.5	706.3	660.7	633.3	617.7	603.4	592.9	591.6
40°	1201.5	1123.3	964.4	828.8	736.3	681.6	650.3	630.7	615.1	606.0	604.7
42.5°	1290.2	1205.4	1032.1	881.0	771.5	703.7	667.2	646.4	626.8	617.7	616.4
45°	1374.9	1283.6	1099.9	929.2	806.7	727.2	684.2	659.4	638.6	629.4	628.1
47.5°	1451.7	1360.5	1162.4	981.3	843.2	753.2	702.4	672.4	649.0	639.9	639.9
50°	1520.8	1425.7	1223.7	1029.5	877.0	779.3	718.1	684.2	660.7	651.6	650.3
52.5°	1586.0	1483.0	1277.1	1071.2	909.6	802.8	733.7	693.3	668.5	658.1	656.8
55°	1638.1	1535.2	1321.4	1105.1	931.8	818.4	744.1	698.5	671.1	662.0	660.7
57.5°	1683.7	1578.2	1352.7	1128.6	946.1	827.5	749.3	698.5	669.8	659.4	658.1
59°	1703.3	1596.4	1363.1	1135.1	948.7	828.8	748.0	694.6	664.6	654.2	651.6
60°	1713.7	1604.2	1367.0	1136.4	947.4	826.2	746.7	690.7	659.4	647.7	647.7
62.5°	1724.1	1610.7	1361.8	1126.0	933.1	811.9	733.7	675.1	639.9	626.8	626.8
65°	1702.0	1587.3	1331.9	1097.3	904.4	787.1	708.9	649.0	609.9	596.9	596.9
67.5°	1636.8	1529.9	1277.1	1043.9	857.5	744.1	668.5	607.3	570.8	556.5	552.6
70°	1526.0	1436.1	1191.1	967.0	793.6	689.4	617.7	559.1	521.3	506.9	501.7
72.5°	1377.5	1288.9	1076.4	873.1	708.9	617.7	555.2	499.1	457.4	443.1	444.4
75°	1172.9	1110.3	927.9	754.5	611.2	526.5	474.4	427.4	392.3	380.5	381.8
77.5°	951.3	899.2	751.9	615.1	499.1	434.0	389.7	351.9	328.4	321.9	318.0
80°	728.5	677.7	564.3	458.7	379.2	333.6	303.6	277.6	259.3	250.2	252.8
82.5°	488.7	457.4	374.0	303.6	258.0	225.5	215.0	198.1	191.6	186.4	190.3
85°	263.2	235.9	195.5	162.9	142.0	132.9	135.5	134.2	129.0	127.7	131.6
87.5°	86.0	74.3	57.3	48.2	49.5	44.3	44.3	41.7	37.8	36.5	39.1
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)