

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: P472192

Luminaire Tested: **CCP-VA-4-835-U-T4W**

Issue Date: 01/27/2021



Test Information

Test Method: LM-79-08
Report Number: P472192
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-VA-4-835-U-T4W
Description: INVUE CLEARCURVE POLE MOUNT Wave Stream LUMINAIRE WITH T4W
DISTRIBUTION LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

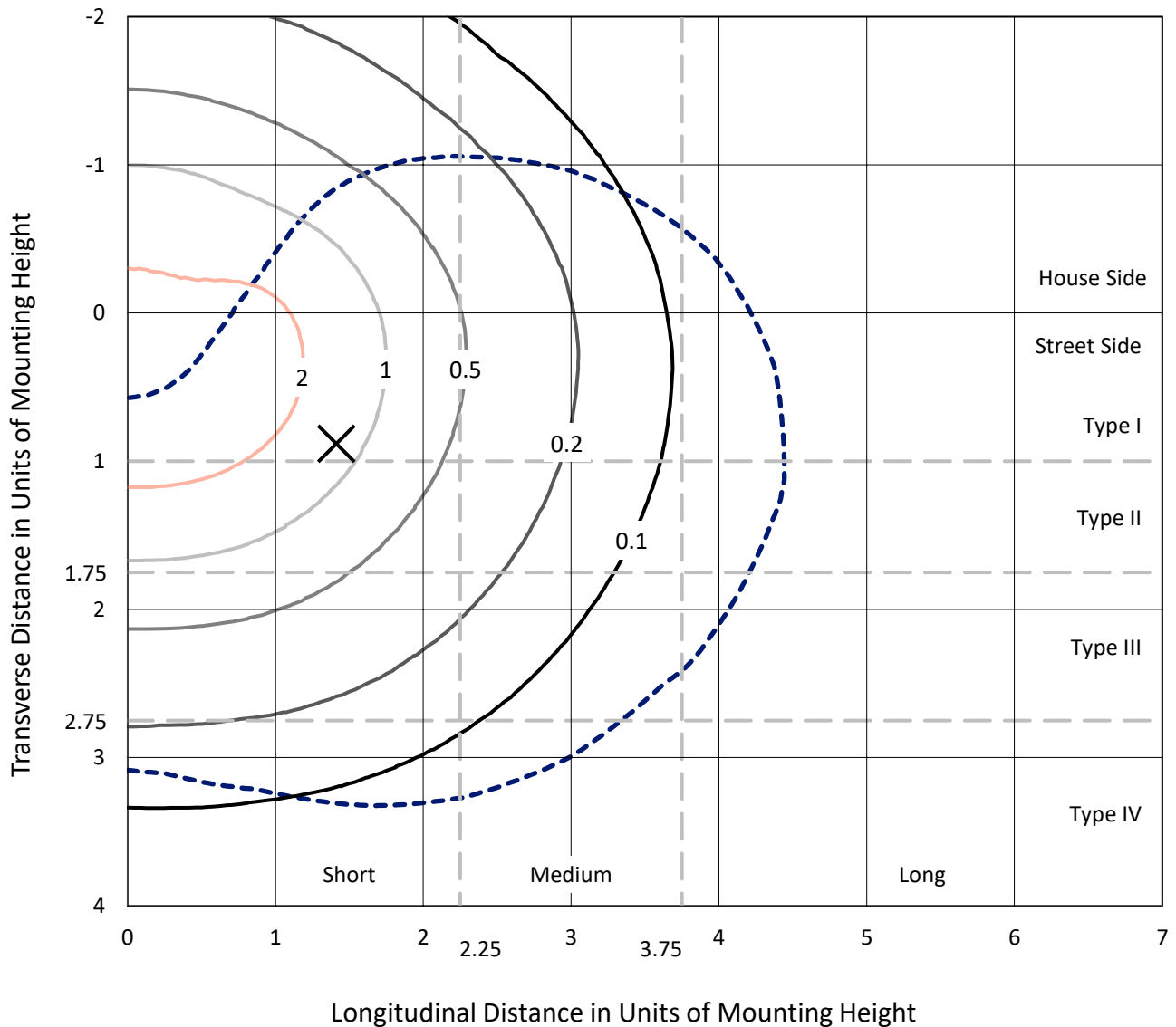
Lumens per Lamp: N/A
Luminaire Lumens: 5863.8 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

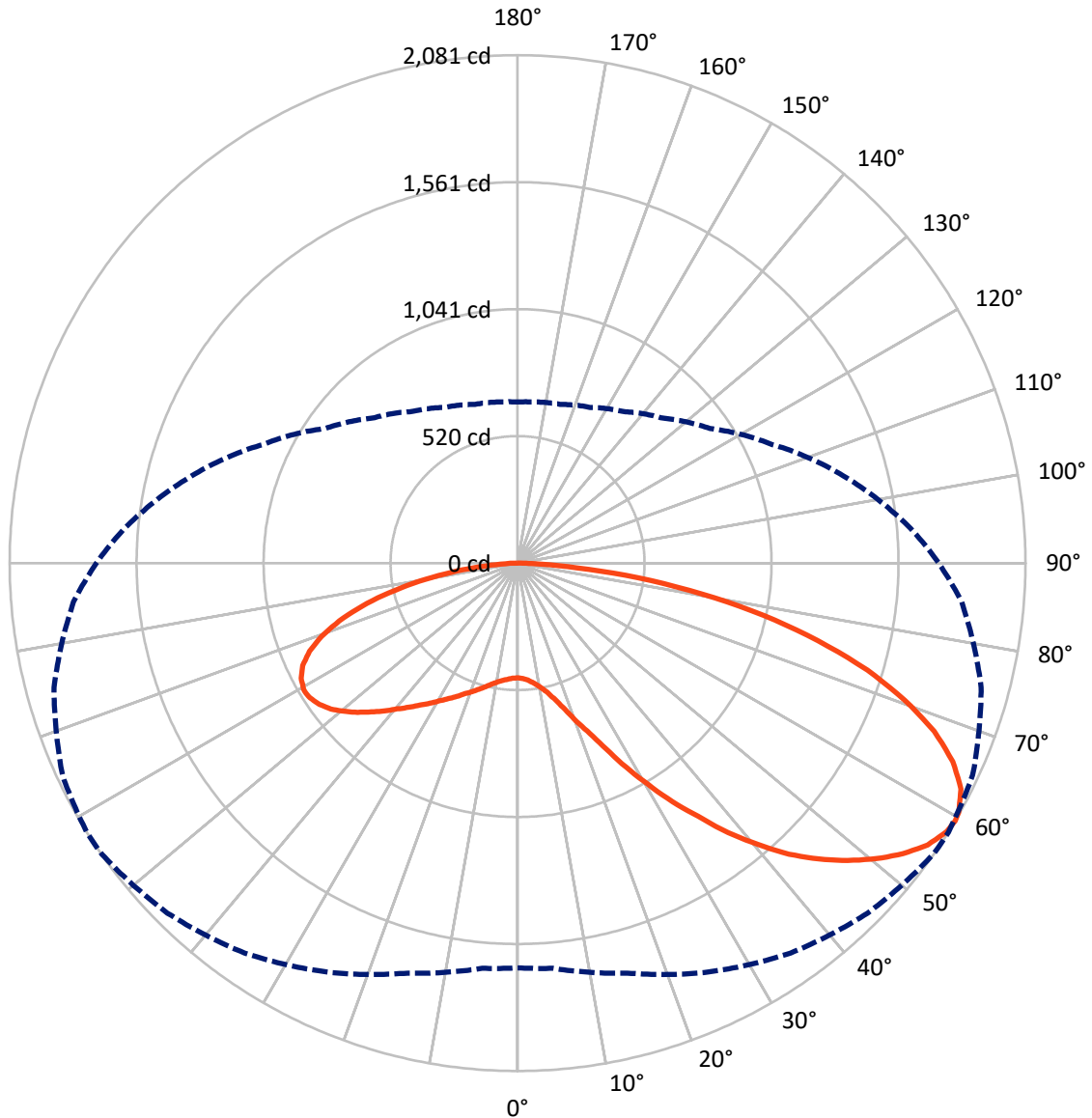
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 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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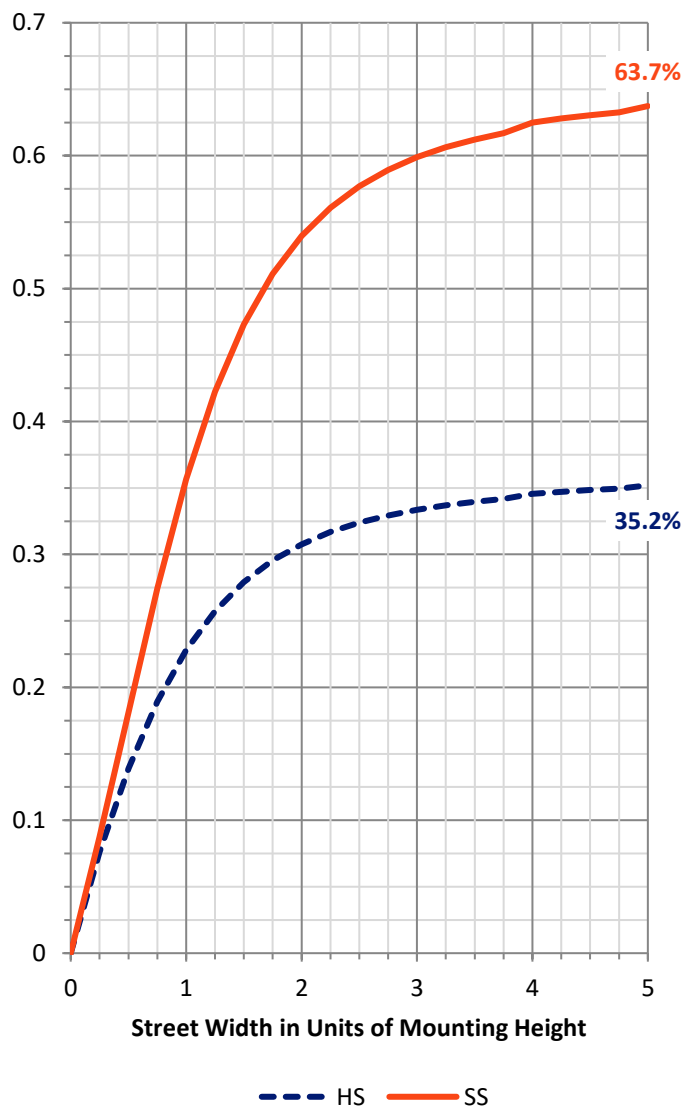
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2091.3	0.0	2091.3
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	3772.6	0.0	3772.6
	% Fixture	64.3	0.0	64.3
Total	Lumens	5863.8	0.0	5863.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	0.8
10°-20°	159.1	2.7
20°-30°	335.7	5.7
30°-40°	617.8	10.5
40°-50°	963.0	16.4
50°-60°	1265.4	21.6
60°-70°	1326.0	22.6
70°-80°	919.3	15.7
80°-90°	230.9	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°	5863.8	100.0
0°-180°	5863.8	100.0



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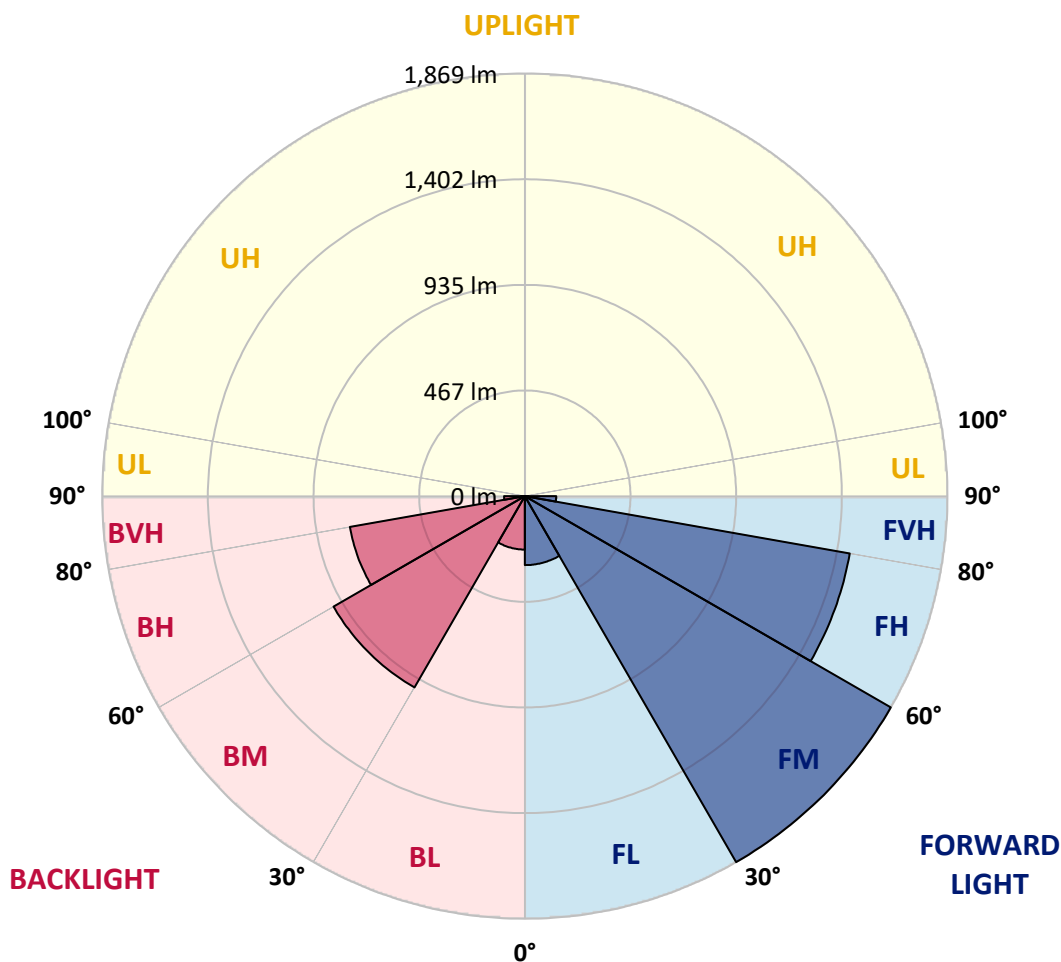
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	305.0	5.2			
FM	(30°-60°)	1869.3	31.9			
FH	(60°-80°)	1459.5	24.9			G1/1800
FVH	(80°-90°)	138.7	2.4			G2/225
BL	(0°-30°)	236.4	4.0	B1/500		
BM	(30°-60°)	977.0	16.7	B1/1000		
BH	(60°-80°)	785.8	13.4	B2/1000		G2/1000
BVH	(80°-90°)	92.1	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°	470.1	470.1	470.1	470.1	470.1	470.1	470.1	470.1	470.1	470.1	470.1
2.5°	476.7	476.7	476.7	475.4	475.4	475.4	474.0	474.0	474.0	472.7	471.4
5°	487.2	487.2	485.9	487.2	485.9	484.6	483.3	483.3	483.3	482.0	480.6
7.5°	501.8	503.1	501.8	503.1	501.8	500.4	497.8	497.8	496.5	493.8	491.2
10°	524.2	524.2	524.2	522.9	521.6	520.3	518.9	517.6	516.3	512.3	508.4
12.5°	551.9	551.9	551.9	549.3	549.3	546.7	545.3	544.0	541.4	536.1	530.8
15°	586.3	585.0	588.9	588.9	587.6	587.6	583.6	581.0	578.4	570.4	558.5
17.5°	632.5	631.2	635.1	637.8	637.8	639.1	632.5	629.8	620.6	610.0	594.2
20°	694.6	691.9	695.9	698.5	695.9	698.5	691.9	693.2	680.0	661.5	636.5
22.5°	761.9	761.9	765.9	765.9	767.2	769.8	761.9	757.9	747.4	721.0	689.3
25°	845.1	851.7	851.7	851.7	857.0	858.3	850.4	843.8	829.2	793.6	750.0
27.5°	946.8	945.4	944.1	952.0	952.0	954.7	949.4	946.8	929.6	886.0	820.0
30°	1055.0	1047.1	1052.4	1055.0	1060.3	1064.3	1059.0	1051.1	1029.9	982.4	900.5
32.5°	1154.1	1159.3	1167.3	1169.9	1177.8	1179.2	1165.9	1165.9	1144.8	1084.1	999.6
35°	1266.3	1266.3	1287.4	1296.7	1296.7	1304.6	1284.8	1274.2	1259.7	1196.3	1089.4
37.5°	1364.0	1366.7	1383.8	1404.9	1407.6	1419.5	1404.9	1401.0	1374.6	1309.9	1191.0
40°	1455.1	1457.8	1478.9	1504.0	1518.5	1537.0	1522.5	1515.9	1488.1	1414.2	1292.7
42.5°	1526.4	1531.7	1558.1	1595.1	1618.9	1641.3	1634.7	1630.7	1592.4	1514.5	1386.5
45°	1580.6	1589.8	1626.8	1670.4	1703.4	1736.4	1737.7	1729.8	1694.1	1607.0	1477.6
47.5°	1624.1	1634.7	1675.6	1731.1	1781.3	1822.2	1830.1	1820.9	1787.9	1696.8	1559.4
50°	1659.8	1665.1	1711.3	1782.6	1844.7	1896.1	1912.0	1904.1	1875.0	1772.0	1630.7
52.5°	1678.3	1686.2	1739.0	1820.9	1896.1	1958.2	1982.0	1978.0	1943.7	1840.7	1694.1
55°	1687.5	1695.4	1757.5	1851.3	1935.8	2008.4	2037.4	2038.8	2005.7	1902.8	1753.5
57.5°	1677.0	1687.5	1754.9	1859.2	1952.9	2030.8	2075.7	2074.4	2048.0	1950.3	1803.7
59°	1658.5	1666.4	1739.0	1848.6	1950.3	2028.2	2079.7	2081.0	2057.2	1966.1	1826.2
60°	1637.3	1646.6	1720.5	1835.4	1939.7	2018.9	2073.1	2075.7	2055.9	1970.1	1835.4
62.5°	1564.7	1576.6	1658.5	1781.3	1894.8	1970.1	2034.8	2038.8	2028.2	1959.5	1842.0
65°	1463.0	1473.6	1562.1	1692.8	1811.6	1889.5	1950.3	1959.5	1958.2	1912.0	1815.6
67.5°	1338.9	1340.2	1423.4	1566.0	1690.2	1766.7	1824.8	1840.7	1852.6	1822.2	1737.7
70°	1189.7	1188.4	1268.9	1410.2	1534.3	1614.9	1673.0	1683.6	1713.9	1690.2	1621.5
72.5°	1004.9	1020.7	1096.0	1214.8	1337.6	1427.4	1478.9	1498.7	1515.9	1521.1	1464.4
75°	830.6	847.7	907.1	1018.1	1123.7	1206.9	1262.3	1271.6	1303.3	1311.2	1258.4
77.5°	664.2	665.5	709.1	797.5	893.9	962.6	1007.5	1031.3	1048.4	1064.3	1008.8
80°	466.1	472.7	503.1	566.5	641.7	714.4	751.3	767.2	779.1	789.6	771.1
82.5°	291.8	294.5	314.3	352.6	404.1	445.0	483.3	496.5	499.1	522.9	520.3
85°	138.6	140.0	153.2	171.7	194.1	227.1	241.6	241.6	260.1	277.3	277.3
87.5°	18.5	18.5	22.4	25.1	31.7	40.9	56.8	58.1	68.7	76.6	83.2
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°	470.1	470.1	470.1	470.1	470.1	470.1	470.1	470.1	470.1	470.1	470.1
2.5°	471.4	471.4	471.4	471.4	471.4	470.1	471.4	471.4	471.4	471.4	471.4
5°	480.6	479.3	478.0	476.7	476.7	475.4	475.4	475.4	475.4	475.4	475.4
7.5°	489.9	488.6	487.2	484.6	483.3	482.0	482.0	480.6	480.6	480.6	480.6
10°	505.7	504.4	499.1	495.2	492.5	491.2	489.9	488.6	487.2	487.2	487.2
12.5°	526.9	524.2	515.0	509.7	505.7	503.1	500.4	499.1	497.8	496.5	496.5
15°	553.3	546.7	534.8	526.9	521.6	517.6	513.7	511.0	509.7	508.4	508.4
17.5°	585.0	577.0	561.2	546.7	537.4	530.8	525.5	521.6	520.3	520.3	520.3
20°	624.6	611.4	588.9	569.1	554.6	545.3	537.4	533.5	532.1	530.8	529.5
22.5°	670.8	653.6	620.6	590.2	571.7	558.5	549.3	544.0	540.1	538.7	538.7
25°	723.6	698.5	654.9	618.0	592.9	574.4	562.5	555.9	549.3	546.7	546.7
27.5°	787.0	754.0	695.9	647.0	612.7	590.2	577.0	567.8	561.2	555.9	553.3
30°	855.6	818.7	740.8	678.7	635.1	610.0	594.2	583.6	574.4	565.1	563.8
32.5°	942.8	890.0	794.9	714.4	661.5	629.8	611.4	598.2	586.3	577.0	574.4
35°	1031.3	967.9	851.7	751.3	686.6	648.3	625.9	611.4	599.5	588.9	587.6
37.5°	1122.4	1055.0	913.7	794.9	715.7	669.5	641.7	625.9	611.4	600.8	599.5
40°	1217.4	1138.2	977.1	839.8	746.0	690.6	658.9	639.1	623.2	614.0	612.7
42.5°	1307.2	1221.4	1045.8	892.6	781.7	713.0	676.1	654.9	635.1	625.9	624.6
45°	1393.1	1300.6	1114.4	941.5	817.4	736.8	693.2	668.1	647.0	637.8	636.5
47.5°	1471.0	1378.5	1177.8	994.3	854.3	763.2	711.7	681.3	657.6	648.3	648.3
50°	1541.0	1444.6	1239.9	1043.1	888.7	789.6	727.6	693.2	669.5	660.2	658.9
52.5°	1607.0	1502.7	1294.0	1085.4	921.7	813.4	743.4	702.5	677.4	666.8	665.5
55°	1659.8	1555.5	1338.9	1119.7	944.1	829.2	754.0	707.8	680.0	670.8	669.5
57.5°	1706.0	1599.1	1370.6	1143.5	958.6	838.5	759.3	707.8	678.7	668.1	666.8
59°	1725.8	1617.5	1381.2	1150.1	961.3	839.8	757.9	703.8	673.4	662.9	660.2
60°	1736.4	1625.5	1385.1	1151.4	960.0	837.2	756.6	699.8	668.1	656.3	656.3
62.5°	1746.9	1632.1	1379.9	1140.9	945.4	822.6	743.4	684.0	648.3	635.1	635.1
65°	1724.5	1608.3	1349.5	1111.8	916.4	797.5	718.3	657.6	618.0	604.8	604.8
67.5°	1658.5	1550.2	1294.0	1057.7	868.8	754.0	677.4	615.3	578.4	563.8	559.9
70°	1546.2	1455.1	1206.9	979.8	804.1	698.5	625.9	566.5	528.2	513.7	508.4
72.5°	1395.7	1305.9	1090.7	884.7	718.3	625.9	562.5	505.7	463.5	448.9	450.3
75°	1188.4	1125.0	940.2	764.5	619.3	533.5	480.6	433.1	397.5	385.6	386.9
77.5°	963.9	911.1	761.9	623.2	505.7	439.7	394.8	356.5	332.8	326.1	322.2
80°	738.1	686.6	571.7	464.8	384.2	338.0	307.7	281.3	262.8	253.5	256.2
82.5°	495.2	463.5	379.0	307.7	261.4	228.4	217.9	200.7	194.1	188.8	192.8
85°	266.7	239.0	198.1	165.1	143.9	134.7	137.3	136.0	130.7	129.4	133.4
87.5°	87.1	75.3	58.1	48.9	50.2	44.9	44.9	42.3	38.3	37.0	39.6
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)