

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: P472149

Luminaire Tested: **CCW-VA-3-730-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472149
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-3-730-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: 5048.5 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

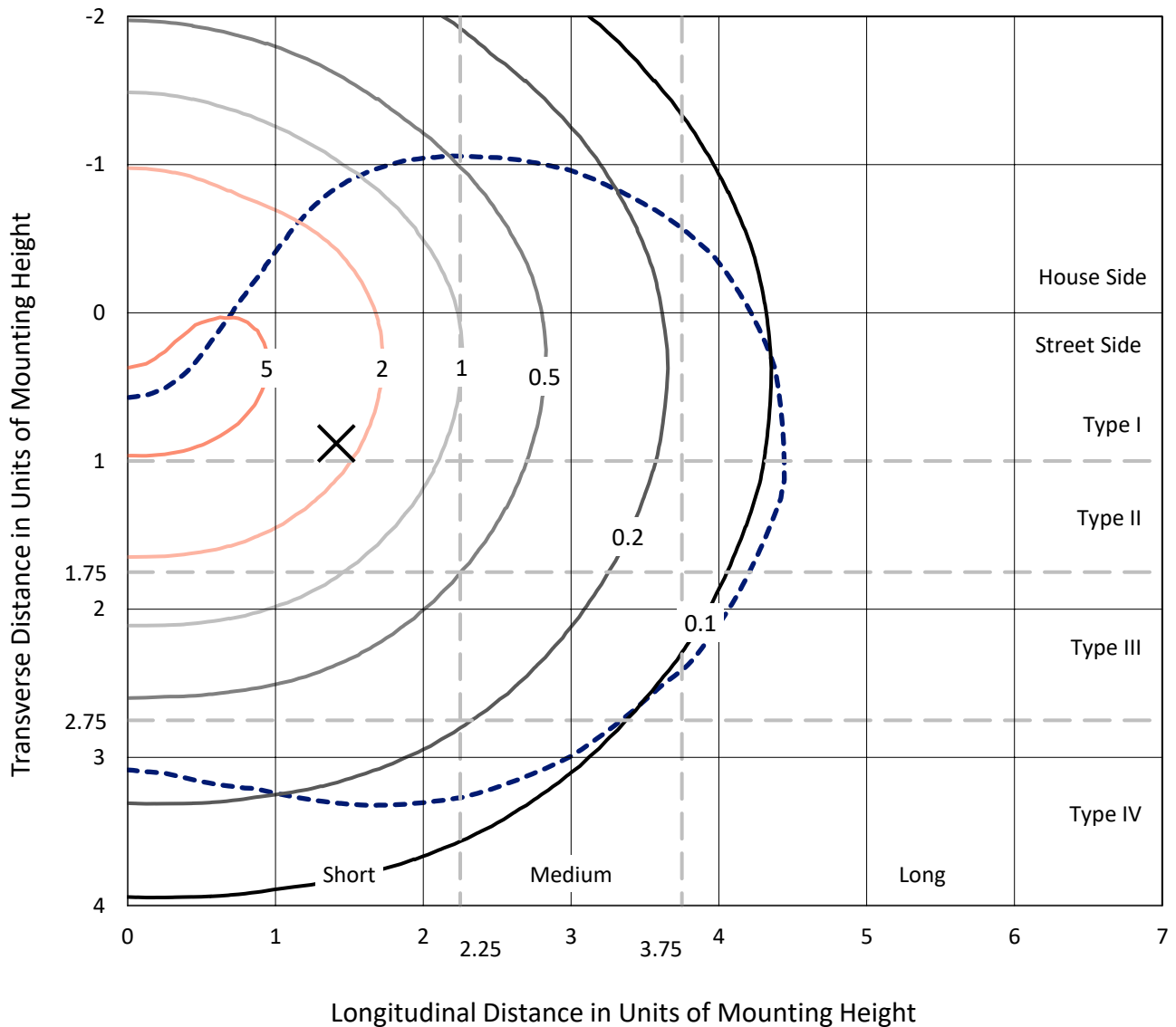
Input Watts (W): 46.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

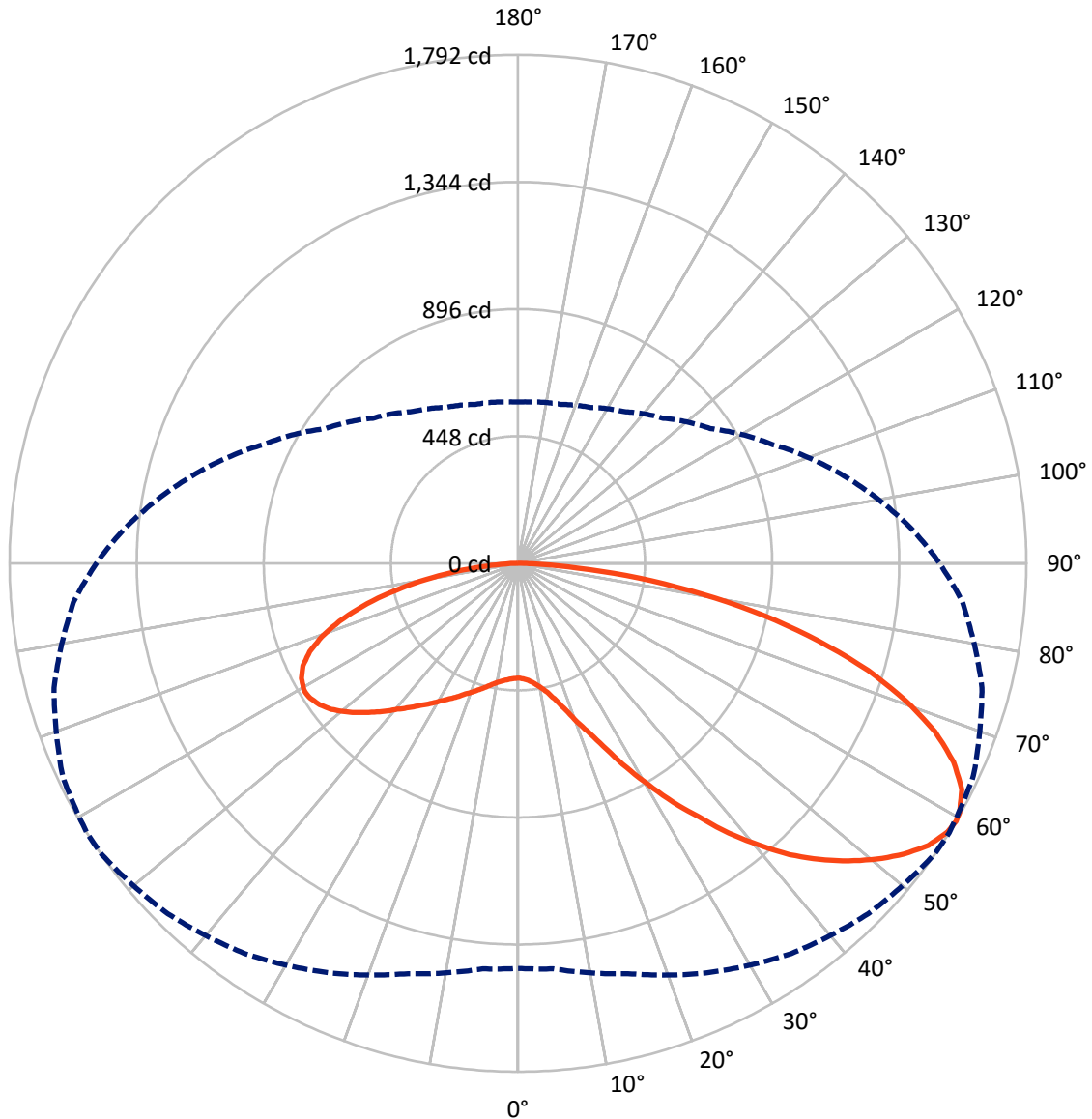
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 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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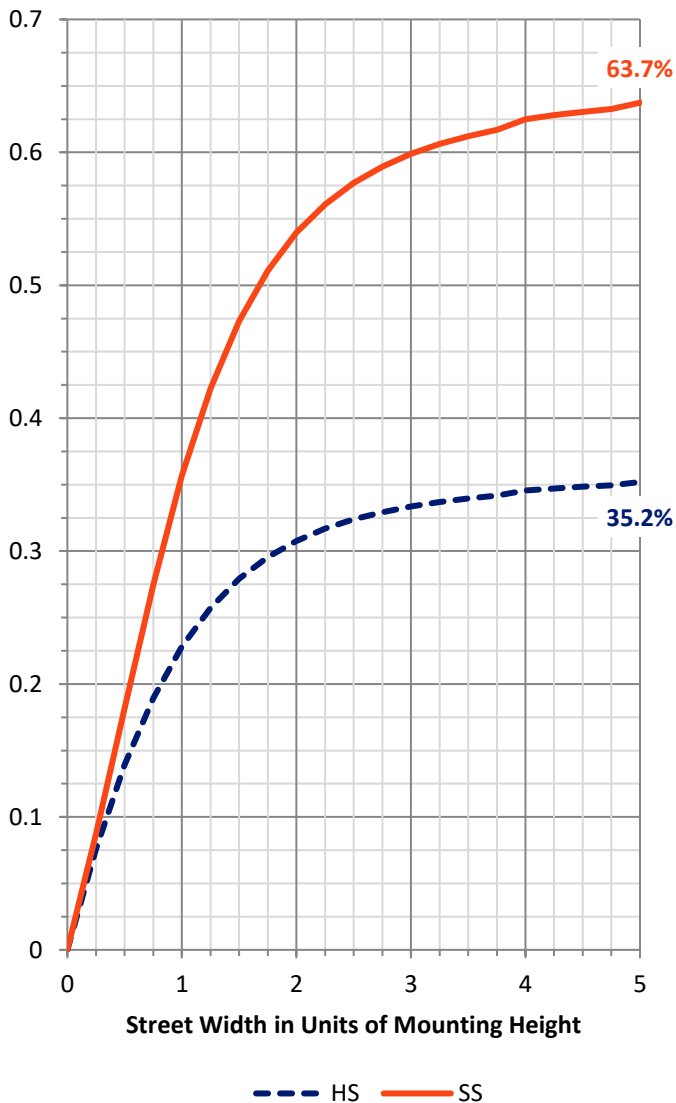
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1800.5	0.0	1800.5
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	3248.0	0.0	3248.0
	% Fixture	64.3	0.0	64.3
Total	Lumens	5048.5	0.0	5048.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	0.8
10°-20°	136.9	2.7
20°-30°	289.0	5.7
30°-40°	531.9	10.5
40°-50°	829.1	16.4
50°-60°	1089.5	21.6
60°-70°	1141.6	22.6
70°-80°	791.5	15.7
80°-90°	198.7	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°	5048.5	100.0
0°-180°	5048.5	100.0

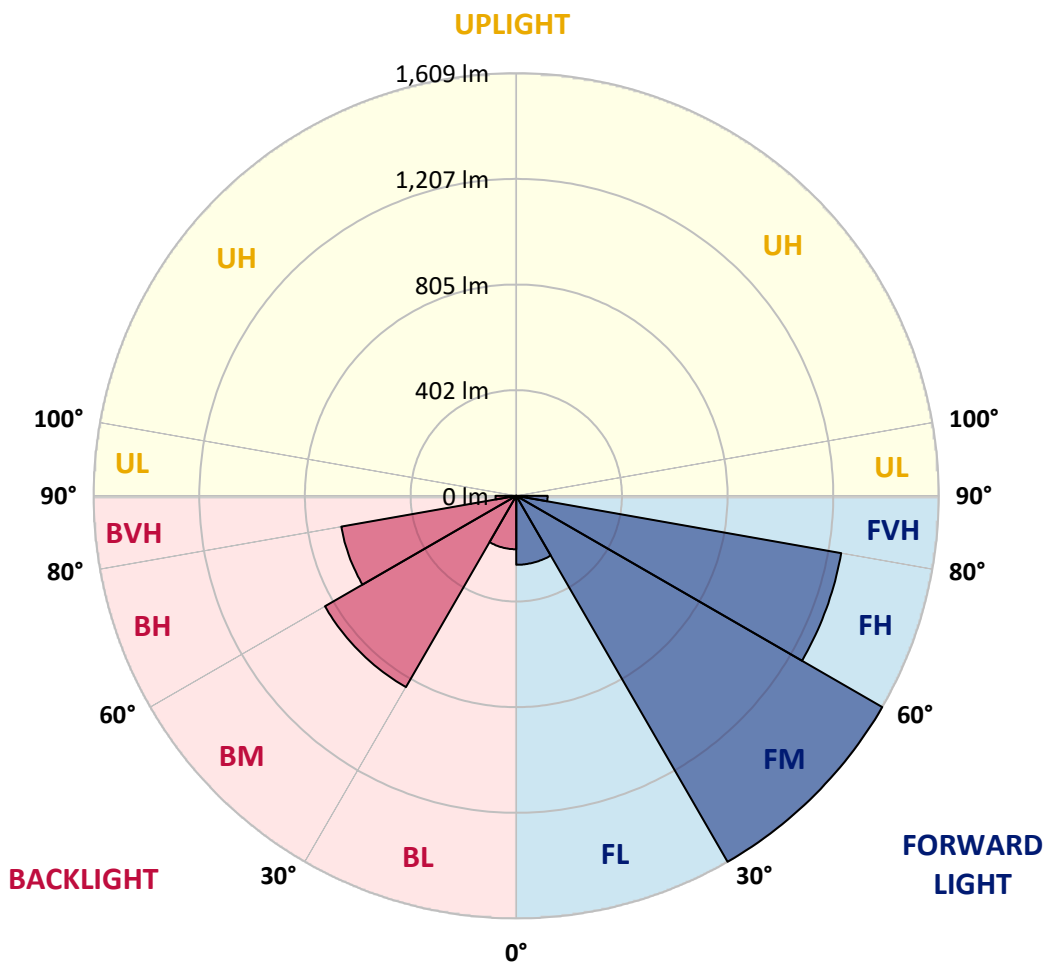


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	262.6	5.2			
FM (30°-60°)	1609.4	31.9			
FH (60°-80°)	1256.6	24.9			G1/1800
FVH (80°-90°)	119.4	2.4			G2/225
BL (0°-30°)	203.5	4.0	B1/500		
BM (30°-60°)	841.2	16.7	B1/1000		
BH (60°-80°)	676.5	13.4	B2/1000		G2/1000
BVH (80°-90°)	79.3	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°	404.7	404.7	404.7	404.7	404.7	404.7	404.7	404.7	404.7	404.7	404.7
2.5°	410.4	410.4	410.4	409.3	409.3	409.3	408.1	408.1	408.1	407.0	405.9
5°	419.5	419.5	418.4	419.5	418.4	417.2	416.1	416.1	416.1	414.9	413.8
7.5°	432.0	433.1	432.0	433.1	432.0	430.9	428.6	428.6	427.5	425.2	422.9
10°	451.3	451.3	451.3	450.2	449.1	447.9	446.8	445.6	444.5	441.1	437.7
12.5°	475.2	475.2	475.2	472.9	472.9	470.7	469.5	468.4	466.1	461.6	457.0
15°	504.8	503.6	507.0	507.0	505.9	505.9	502.5	500.2	497.9	491.1	480.9
17.5°	544.5	543.4	546.8	549.1	549.1	550.2	544.5	542.3	534.3	525.2	511.6
20°	598.0	595.7	599.1	601.4	599.1	601.4	595.7	596.8	585.5	569.6	548.0
22.5°	656.0	656.0	659.4	659.4	660.5	662.8	656.0	652.5	643.5	620.7	593.4
25°	727.6	733.3	733.3	733.3	737.8	738.9	732.1	726.4	713.9	683.2	645.7
27.5°	815.1	814.0	812.8	819.7	819.7	821.9	817.4	815.1	800.3	762.8	706.0
30°	908.3	901.5	906.1	908.3	912.9	916.3	911.7	904.9	886.7	845.8	775.3
32.5°	993.6	998.1	1005.0	1007.2	1014.1	1015.2	1003.8	1003.8	985.6	933.3	860.6
35°	1090.2	1090.2	1108.4	1116.4	1116.4	1123.2	1106.1	1097.1	1084.5	1030.0	937.9
37.5°	1174.4	1176.6	1191.4	1209.6	1211.9	1222.1	1209.6	1206.2	1183.5	1127.7	1025.4
40°	1252.8	1255.1	1273.3	1294.9	1307.4	1323.3	1310.8	1305.1	1281.2	1217.6	1113.0
42.5°	1314.2	1318.7	1341.5	1373.3	1393.8	1413.1	1407.4	1404.0	1371.0	1304.0	1193.7
45°	1360.8	1368.8	1400.6	1438.1	1466.5	1494.9	1496.1	1489.3	1458.6	1383.5	1272.1
47.5°	1398.3	1407.4	1442.7	1490.4	1533.6	1568.8	1575.7	1567.7	1539.3	1460.8	1342.6
50°	1429.0	1433.6	1473.3	1534.7	1588.2	1632.5	1646.1	1639.3	1614.3	1525.6	1404.0
52.5°	1444.9	1451.7	1497.2	1567.7	1632.5	1685.9	1706.4	1703.0	1673.4	1584.8	1458.6
55°	1452.9	1459.7	1513.1	1593.8	1666.6	1729.1	1754.1	1755.3	1726.9	1638.2	1509.7
57.5°	1443.8	1452.9	1510.9	1600.7	1681.4	1748.5	1787.1	1786.0	1763.2	1679.1	1552.9
59°	1427.9	1434.7	1497.2	1591.6	1679.1	1746.2	1790.5	1791.7	1771.2	1692.8	1572.2
60°	1409.7	1417.6	1481.3	1580.2	1670.0	1738.2	1784.8	1787.1	1770.1	1696.2	1580.2
62.5°	1347.2	1357.4	1427.9	1533.6	1631.4	1696.2	1751.9	1755.3	1746.2	1687.1	1585.9
65°	1259.6	1268.7	1344.9	1457.4	1559.7	1626.8	1679.1	1687.1	1685.9	1646.1	1563.2
67.5°	1152.8	1153.9	1225.5	1348.3	1455.2	1521.1	1571.1	1584.8	1595.0	1568.8	1496.1
70°	1024.3	1023.2	1092.5	1214.1	1321.0	1390.4	1440.4	1449.5	1475.6	1455.2	1396.0
72.5°	865.1	878.8	943.6	1045.9	1151.6	1228.9	1273.3	1290.3	1305.1	1309.6	1260.8
75°	715.1	729.9	781.0	876.5	967.5	1039.1	1086.8	1094.8	1122.1	1128.9	1083.4
77.5°	571.8	573.0	610.5	686.7	769.6	828.8	867.4	887.9	902.7	916.3	868.5
80°	401.3	407.0	433.1	487.7	552.5	615.0	646.9	660.5	670.7	679.8	663.9
82.5°	251.2	253.5	270.6	303.5	347.9	383.1	416.1	427.5	429.7	450.2	447.9
85°	119.4	120.5	131.9	147.8	167.1	195.5	208.0	208.0	224.0	238.7	238.7
87.5°	15.9	15.9	19.3	21.6	27.3	35.2	48.9	50.0	59.1	65.9	71.6
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°	404.7	404.7	404.7	404.7	404.7	404.7	404.7	404.7	404.7	404.7	404.7
2.5°	405.9	405.9	405.9	405.9	405.9	404.7	405.9	405.9	405.9	405.9	405.9
5°	413.8	412.7	411.5	410.4	410.4	409.3	409.3	409.3	409.3	409.3	409.3
7.5°	421.8	420.6	419.5	417.2	416.1	414.9	414.9	413.8	413.8	413.8	413.8
10°	435.4	434.3	429.7	426.3	424.0	422.9	421.8	420.6	419.5	419.5	419.5
12.5°	453.6	451.3	443.4	438.8	435.4	433.1	430.9	429.7	428.6	427.5	427.5
15°	476.3	470.7	460.4	453.6	449.1	445.6	442.2	440.0	438.8	437.7	437.7
17.5°	503.6	496.8	483.2	470.7	462.7	457.0	452.5	449.1	447.9	447.9	447.9
20°	537.7	526.4	507.0	490.0	477.5	469.5	462.7	459.3	458.1	457.0	455.9
22.5°	577.5	562.7	534.3	508.2	492.3	480.9	472.9	468.4	465.0	463.8	463.8
25°	623.0	601.4	563.9	532.0	510.4	494.5	484.3	478.6	472.9	470.7	470.7
27.5°	677.6	649.1	599.1	557.1	527.5	508.2	496.8	488.8	483.2	478.6	476.3
30°	736.7	704.8	637.8	584.3	546.8	525.2	511.6	502.5	494.5	486.6	485.4
32.5°	811.7	766.2	684.4	615.0	569.6	542.3	526.4	515.0	504.8	496.8	494.5
35°	887.9	833.3	733.3	646.9	591.2	558.2	538.9	526.4	516.1	507.0	505.9
37.5°	966.3	908.3	786.7	684.4	616.2	576.4	552.5	538.9	526.4	517.3	516.1
40°	1048.2	980.0	841.3	723.0	642.3	594.6	567.3	550.2	536.6	528.6	527.5
42.5°	1125.5	1051.6	900.4	768.5	673.0	613.9	582.1	563.9	546.8	538.9	537.7
45°	1199.4	1119.8	959.5	810.6	703.7	634.4	596.8	575.2	557.1	549.1	548.0
47.5°	1266.4	1186.9	1014.1	856.0	735.5	657.1	612.8	586.6	566.1	558.2	558.2
50°	1326.7	1243.7	1067.5	898.1	765.1	679.8	626.4	596.8	576.4	568.4	567.3
52.5°	1383.5	1293.7	1114.1	934.5	793.5	700.3	640.0	604.8	583.2	574.1	573.0
55°	1429.0	1339.2	1152.8	964.0	812.8	713.9	649.1	609.3	585.5	577.5	576.4
57.5°	1468.8	1376.7	1180.0	984.5	825.3	721.9	653.7	609.3	584.3	575.2	574.1
59°	1485.9	1392.6	1189.1	990.2	827.6	723.0	652.5	605.9	579.8	570.7	568.4
60°	1494.9	1399.5	1192.5	991.3	826.5	720.8	651.4	602.5	575.2	565.0	565.0
62.5°	1504.0	1405.1	1188.0	982.2	814.0	708.3	640.0	588.9	558.2	546.8	546.8
65°	1484.7	1384.7	1161.9	957.2	789.0	686.7	618.4	566.1	532.0	520.7	520.7
67.5°	1427.9	1334.7	1114.1	910.6	748.0	649.1	583.2	529.8	497.9	485.4	482.0
70°	1331.2	1252.8	1039.1	843.5	692.3	601.4	538.9	487.7	454.7	442.2	437.7
72.5°	1201.6	1124.3	939.0	761.7	618.4	538.9	484.3	435.4	399.0	386.5	387.7
75°	1023.2	968.6	809.4	658.2	533.2	459.3	413.8	372.9	342.2	332.0	333.1
77.5°	829.9	784.4	656.0	536.6	435.4	378.6	339.9	306.9	286.5	280.8	277.4
80°	635.5	591.2	492.3	400.2	330.8	291.0	264.9	242.1	226.2	218.3	220.5
82.5°	426.3	399.0	326.3	264.9	225.1	196.7	187.6	172.8	167.1	162.6	166.0
85°	229.6	205.8	170.5	142.1	123.9	116.0	118.2	117.1	112.5	111.4	114.8
87.5°	75.0	64.8	50.0	42.1	43.2	38.7	38.7	36.4	33.0	31.8	34.1
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)