

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: P472315

Luminaire Tested: **CCW-VA-3-730-U-T3**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472315
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-T3
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS
Light Source: 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4376.9 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

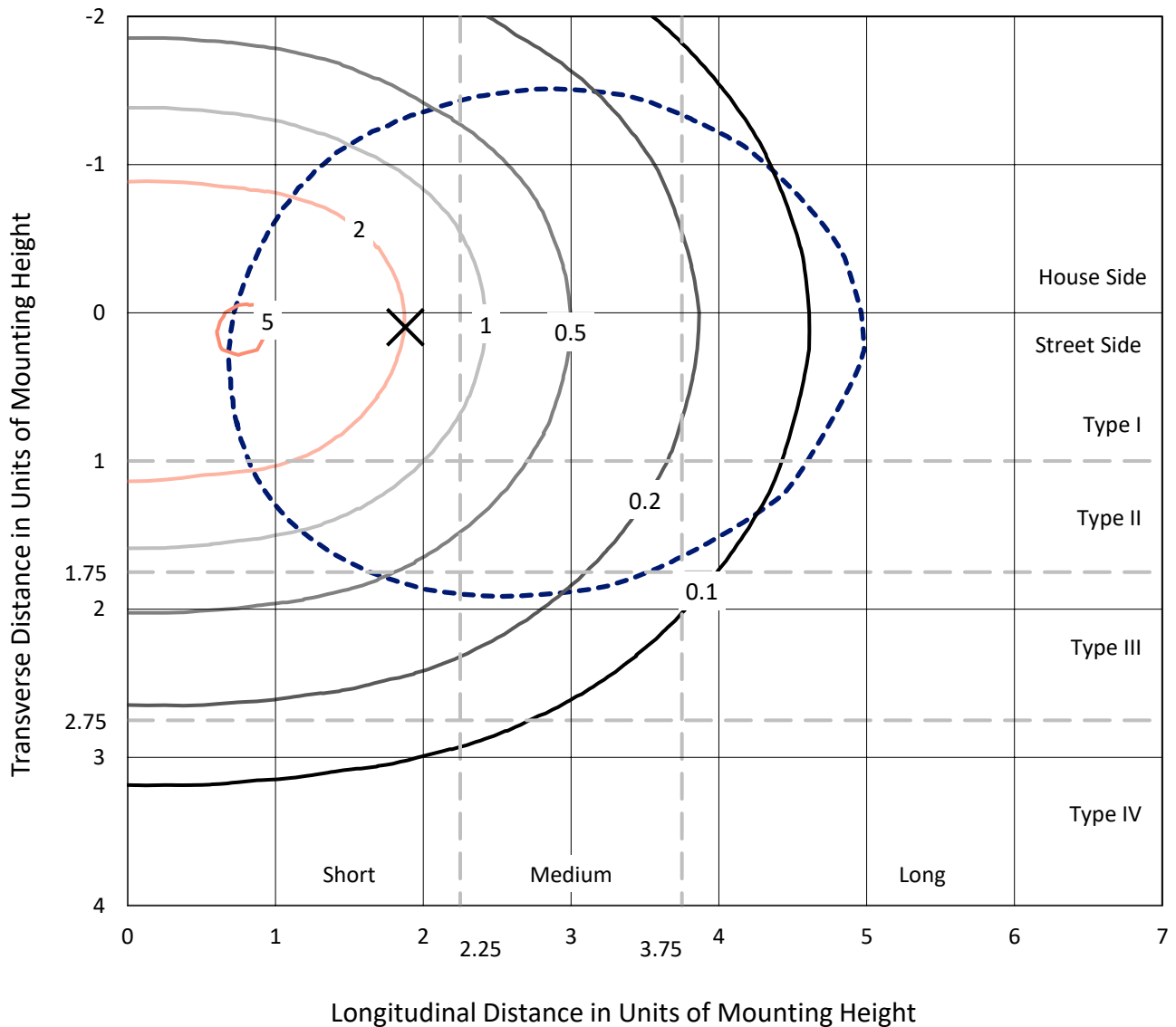
Input Watts (W): 48.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

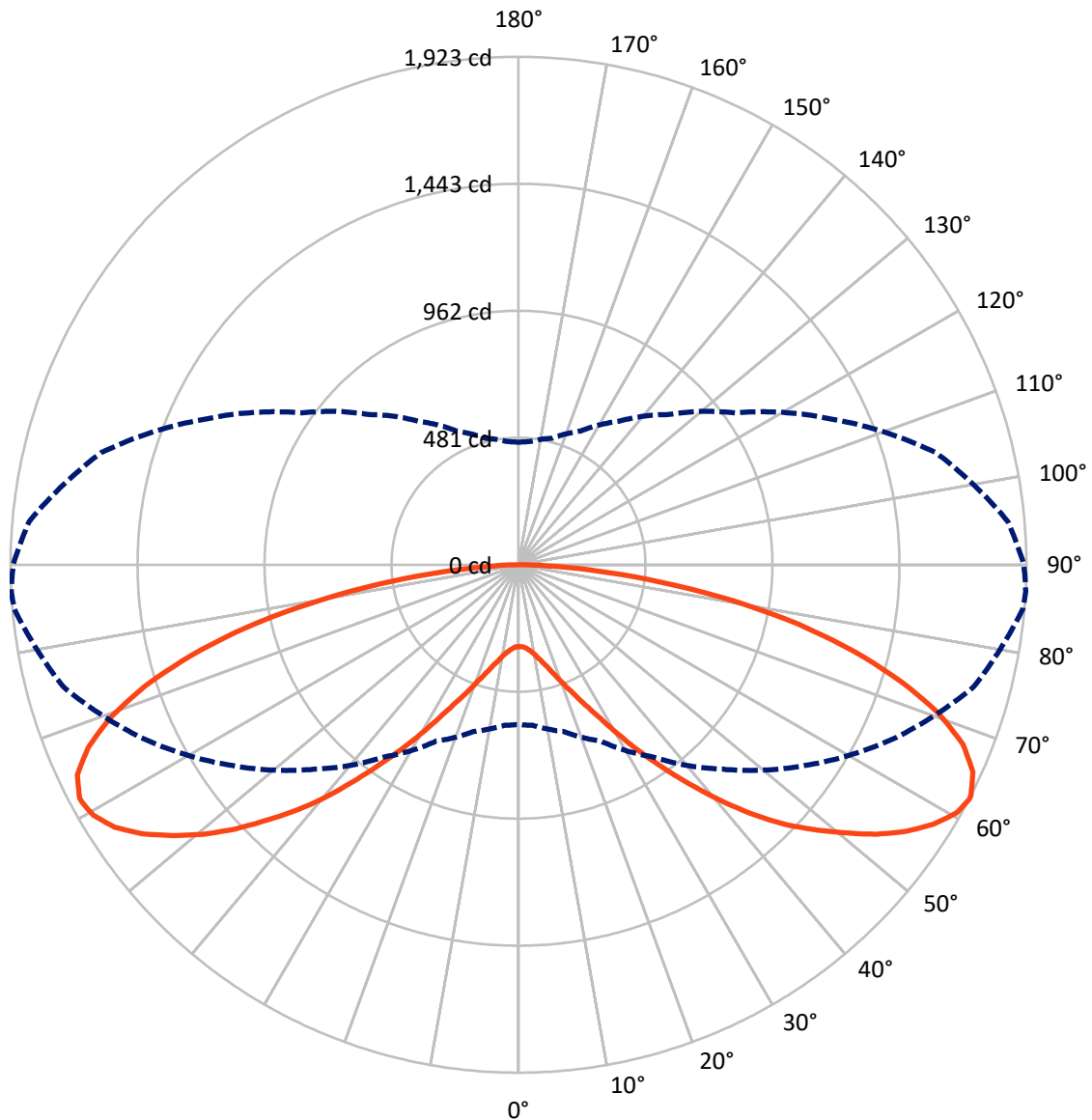
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 87-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

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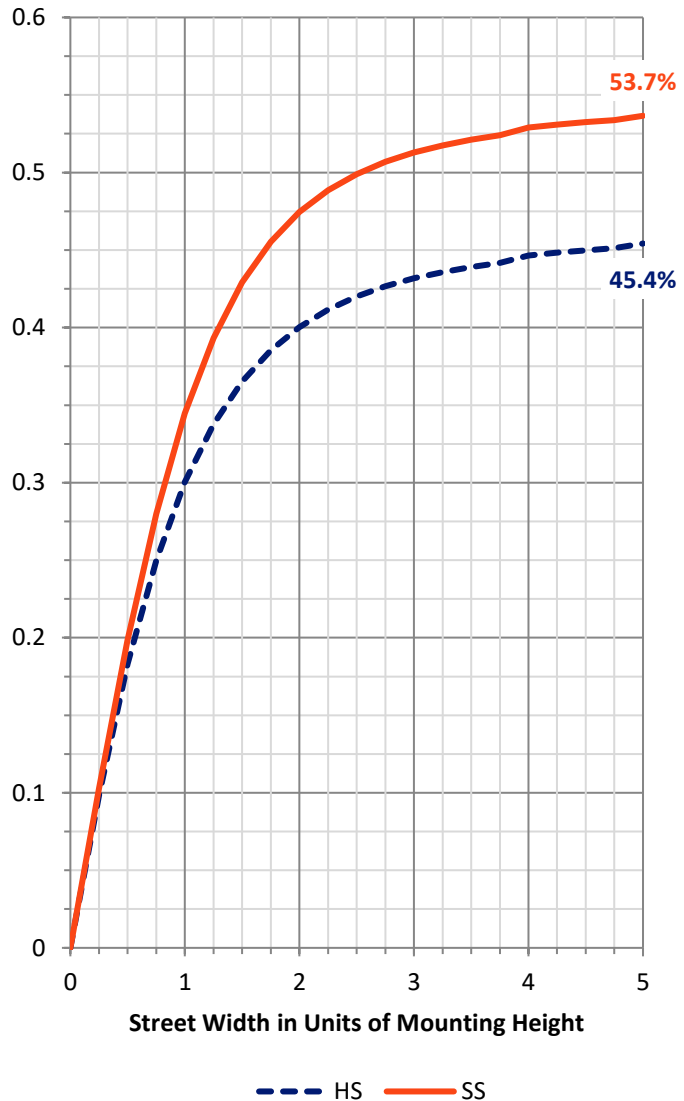
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2015.2	0.0	2015.2
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	2361.7	0.0	2361.7
	% Fixture	54.0	0.0	54.0
Total	Lumens	4376.9	0.0	4376.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	0.7
10°-20°	110.0	2.5
20°-30°	235.2	5.4
30°-40°	433.4	9.9
40°-50°	691.2	15.8
50°-60°	939.9	21.5
60°-70°	1018.3	23.3
70°-80°	727.7	16.6
80°-90°	190.2	4.3
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°	4376.9	100.0
0°-180°	4376.9	100.0

Coefficient of Utilization

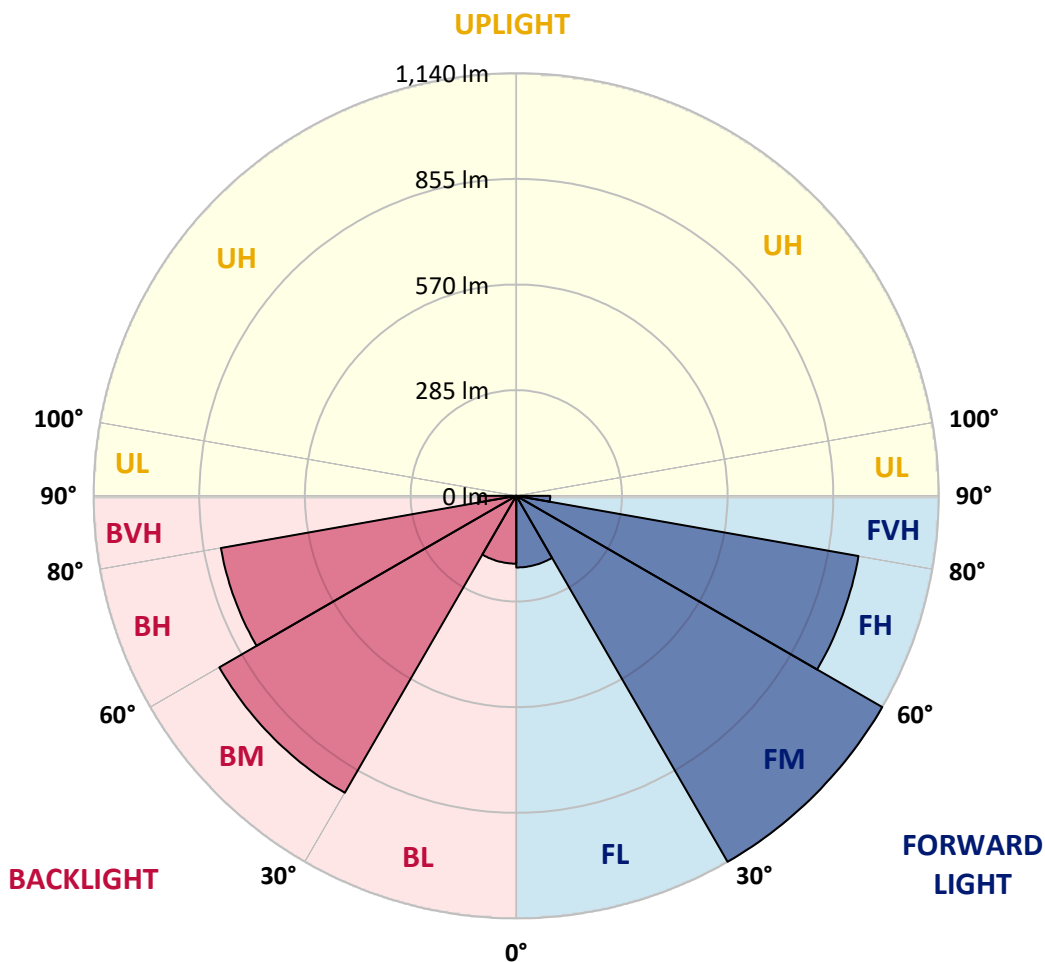


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.3	4.4			
FM (30°-60°)	1139.7	26.0			
FH (60°-80°)	937.1	21.4			G1/1800
FVH (80°-90°)	91.6	2.1			G1/100
BL (0°-30°)	183.0	4.2	B1/500		
BM (30°-60°)	924.8	21.1	B1/1000		
BH (60°-80°)	808.9	18.5	B2/1000		G2/1000
BVH (80°-90°)	98.6	2.3			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8
2.5°	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5	311.2	311.2
5°	312.6	311.9	311.9	312.6	313.3	314.0	315.4	316.1	317.5	318.9	318.2
7.5°	318.9	318.9	318.9	319.6	321.7	323.2	325.3	327.4	329.5	330.9	330.2
10°	328.8	328.8	328.8	330.2	332.3	336.6	340.1	343.6	345.7	347.2	347.9
12.5°	339.4	339.4	340.8	343.6	347.9	353.5	359.9	364.8	368.3	369.7	370.4
15°	354.2	354.9	357.7	360.6	366.2	374.7	385.3	392.3	395.8	398.7	398.0
17.5°	376.8	376.1	378.2	384.5	390.9	402.9	415.6	427.6	434.6	434.6	434.6
20°	402.2	401.5	402.9	407.8	418.4	434.6	454.4	470.6	478.4	477.0	478.4
22.5°	430.4	430.4	431.8	436.1	446.6	469.9	497.4	521.4	532.0	528.5	527.1
25°	461.5	461.5	463.6	467.1	481.9	510.1	546.8	581.4	592.0	588.5	587.1
27.5°	497.4	494.6	498.9	502.4	520.7	558.1	606.1	649.8	673.1	661.1	656.9
30°	535.5	533.4	534.1	541.2	562.4	610.3	667.5	726.1	758.5	750.7	744.4
32.5°	568.7	570.1	572.2	584.2	608.2	666.1	732.4	809.3	846.0	843.9	842.5
35°	606.1	606.1	610.3	621.6	656.9	725.3	805.8	892.6	946.9	949.0	944.8
37.5°	635.7	635.7	642.1	656.9	698.5	779.7	878.5	980.8	1046.4	1057.7	1054.2
40°	661.8	660.4	667.5	689.4	738.0	837.5	949.7	1068.3	1156.5	1175.5	1170.6
42.5°	677.4	678.8	688.7	716.2	776.1	888.3	1019.6	1150.8	1253.8	1286.3	1286.3
45°	688.7	690.1	704.9	737.3	810.7	938.4	1083.1	1235.5	1349.1	1396.4	1398.5
47.5°	693.6	695.7	714.1	753.6	839.7	984.3	1144.5	1311.7	1434.5	1501.5	1497.3
50°	693.6	696.4	718.3	765.6	865.8	1023.1	1202.3	1384.4	1521.3	1596.0	1595.3
52.5°	689.4	692.9	719.7	774.7	887.6	1060.5	1253.8	1446.5	1604.5	1692.7	1695.5
55°	680.9	685.1	716.2	780.4	904.6	1090.1	1295.5	1504.3	1676.5	1776.0	1782.3
57.5°	664.0	668.2	703.5	775.4	910.9	1105.7	1325.8	1545.2	1735.0	1851.5	1852.9
60°	635.7	640.7	678.8	759.2	904.6	1106.4	1333.6	1563.6	1774.6	1902.3	1907.2
62°	604.7	610.3	653.4	736.6	888.3	1095.1	1325.1	1562.9	1785.1	1917.1	1923.4
62.5°	596.9	601.9	645.6	728.9	882.0	1089.4	1320.2	1559.4	1783.7	1917.8	1922.7
65°	548.9	553.9	598.3	686.5	843.2	1054.9	1284.2	1528.3	1758.3	1889.6	1891.0
67.5°	496.0	501.0	545.4	628.7	787.4	997.0	1223.5	1466.9	1690.6	1804.2	1814.8
70°	434.6	441.7	482.6	565.2	714.1	913.7	1127.5	1369.6	1582.6	1679.3	1689.2
72.5°	374.0	378.9	411.4	484.0	618.8	804.4	1003.3	1222.1	1416.1	1507.8	1516.3
75°	303.4	307.6	339.4	399.4	512.3	670.3	858.0	1049.2	1225.6	1308.2	1314.5
77.5°	239.2	240.6	263.2	311.2	398.0	525.7	680.9	831.9	992.1	1066.9	1083.8
80°	168.6	175.7	191.2	224.4	279.4	376.8	489.0	618.1	730.3	814.3	819.9
82.5°	109.4	110.8	120.7	132.7	172.2	237.8	311.2	390.9	491.1	545.4	541.2
85°	57.2	57.2	60.7	64.2	77.6	106.5	150.3	206.0	264.6	305.5	299.9
87.5°	9.9	9.2	9.9	9.2	12.0	16.9	31.8	51.5	77.6	91.7	100.9
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°	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8
2.5°	311.2	311.2	311.9	313.3	313.3	314.0	314.7	314.7	315.4	316.1	316.1
5°	319.6	319.6	320.3	321.7	322.5	322.5	323.2	323.9	323.9	323.9	324.6
7.5°	330.9	331.6	332.3	333.0	333.7	333.7	335.9	335.2	335.2	335.2	335.2
10°	347.2	348.6	348.6	348.6	348.6	347.9	348.6	347.9	346.4	346.4	345.7
12.5°	371.1	371.1	369.7	368.3	366.2	365.5	364.8	362.7	359.9	358.4	358.4
15°	398.7	397.2	394.4	391.6	388.1	385.3	380.3	377.5	374.0	372.6	372.6
17.5°	433.9	431.8	424.1	418.4	409.9	403.6	398.0	392.3	388.1	386.7	386.0
20°	474.2	469.2	457.9	445.2	433.9	424.1	413.5	406.4	402.2	398.7	398.0
22.5°	525.0	517.9	498.1	478.4	457.9	443.8	430.4	420.5	412.8	409.2	407.8
25°	580.0	569.4	544.0	514.4	486.2	464.3	447.3	433.9	424.8	419.1	417.7
27.5°	649.8	634.3	596.9	552.5	515.1	487.6	464.3	448.8	436.8	428.3	426.9
30°	731.7	715.5	653.4	594.8	547.5	508.7	483.3	462.9	448.0	438.2	436.1
32.5°	829.1	799.4	728.2	645.6	580.7	533.4	501.0	477.0	458.6	447.3	444.5
35°	927.9	897.5	803.7	699.2	616.0	558.8	520.0	491.1	470.6	456.5	455.1
37.5°	1038.6	1001.9	891.9	759.9	654.1	585.6	537.7	504.5	479.8	465.0	463.6
40°	1157.9	1120.5	986.4	829.8	699.2	611.7	554.6	517.2	489.7	473.5	471.3
42.5°	1275.0	1230.5	1082.4	899.6	745.1	640.7	574.4	530.6	498.1	481.2	478.4
45°	1376.6	1337.8	1179.7	980.1	798.0	670.3	594.1	543.3	507.3	488.3	485.4
47.5°	1491.6	1450.0	1286.3	1054.2	848.8	704.2	613.2	554.6	515.1	494.6	492.5
50°	1593.2	1555.8	1380.8	1122.6	897.5	735.9	630.8	565.2	521.4	499.6	496.7
52.5°	1685.7	1652.5	1467.6	1186.8	939.1	765.6	647.0	572.9	525.7	501.7	498.1
55°	1778.8	1735.8	1543.1	1243.2	972.3	788.8	660.4	576.5	525.0	500.3	496.7
57.5°	1848.6	1807.7	1598.2	1283.5	997.0	804.4	668.2	575.8	520.7	493.9	489.7
60°	1895.9	1850.8	1630.6	1303.2	1005.5	809.3	668.2	569.4	510.1	481.2	477.0
62°	1913.6	1861.3	1637.0	1306.0	1001.9	804.4	663.3	558.8	496.0	467.8	463.6
62.5°	1914.3	1860.6	1634.9	1303.9	999.8	802.3	660.4	555.3	492.5	463.6	459.3
65°	1883.2	1829.6	1609.5	1282.1	975.8	783.2	640.7	534.8	467.8	439.6	435.3
67.5°	1794.3	1753.4	1548.8	1231.3	934.9	747.9	611.7	505.2	438.9	409.2	407.1
70°	1670.8	1633.4	1450.0	1154.3	875.6	697.1	568.7	465.7	402.2	375.4	370.4
72.5°	1515.6	1466.9	1309.6	1051.3	790.3	627.3	512.3	416.3	359.9	335.9	333.0
75°	1323.0	1264.4	1133.2	915.2	688.0	543.3	446.6	361.3	311.2	290.7	292.8
77.5°	1077.4	1049.9	915.9	729.6	560.2	449.5	366.2	306.2	263.2	246.3	244.8
80°	813.5	787.4	693.6	553.9	423.4	340.1	283.6	241.3	211.7	196.9	196.2
82.5°	551.8	527.1	455.8	371.8	288.6	240.6	205.3	177.8	159.5	152.4	152.4
85°	303.4	282.2	241.3	201.1	163.0	137.6	132.7	118.5	113.6	112.2	113.6
87.5°	94.5	93.8	79.7	65.6	57.2	57.9	52.2	53.6	50.8	50.1	53.6
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)