

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: P472339

Luminaire Tested: **CCW-VA-3-830-U-T3**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472339
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-3-830-U-T3
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4107.4 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

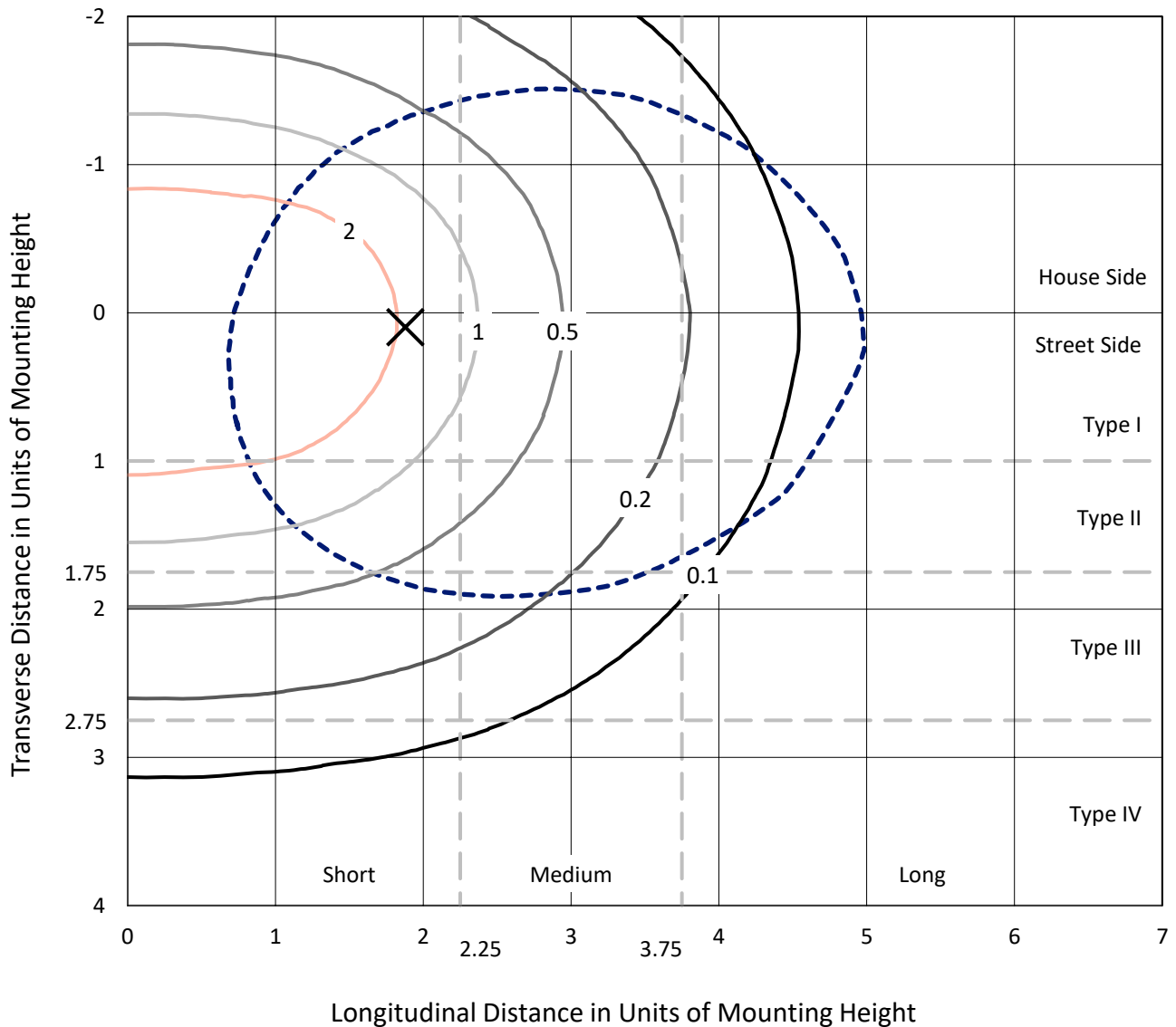
Input Watts (W): 48.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

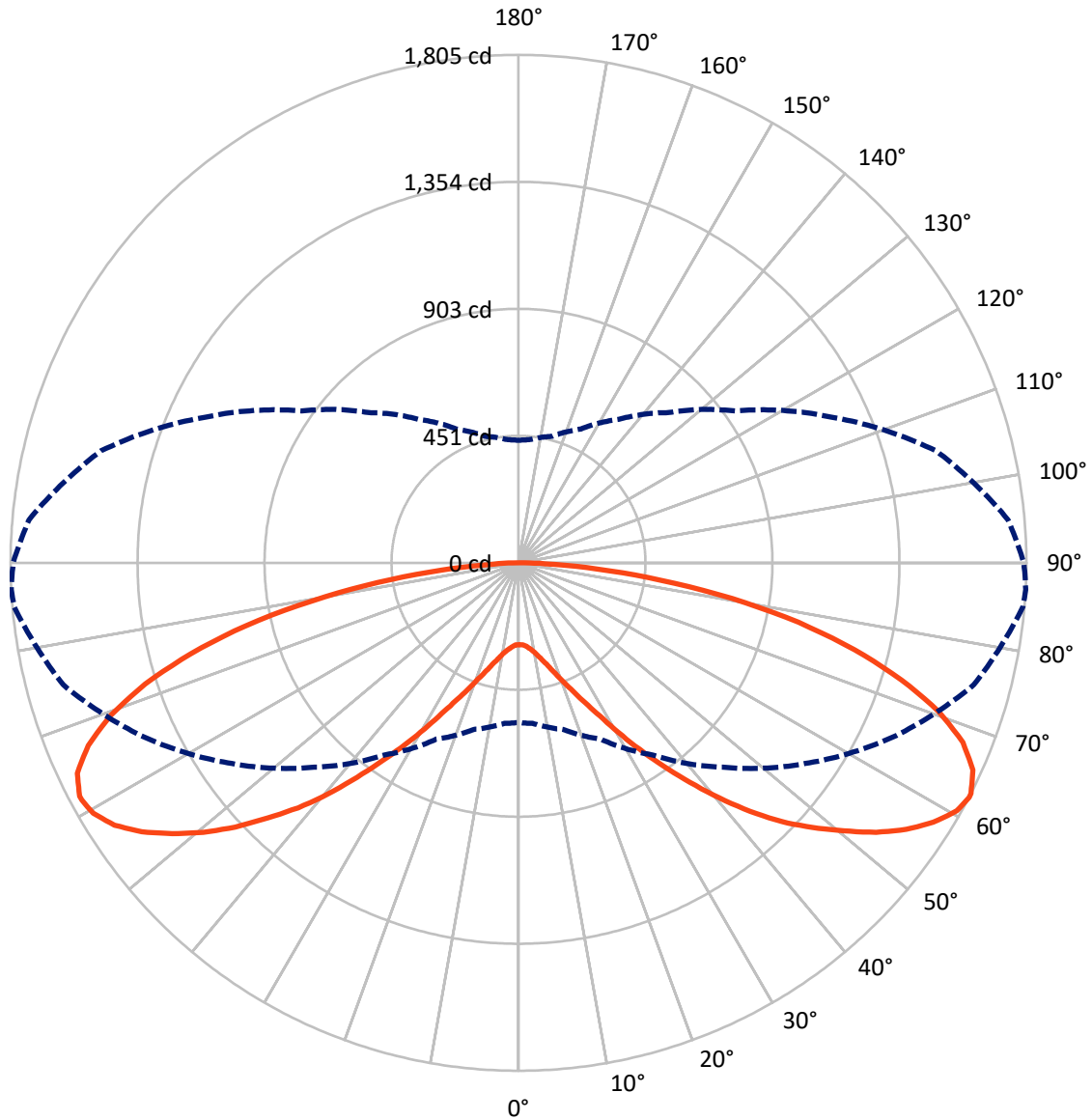
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 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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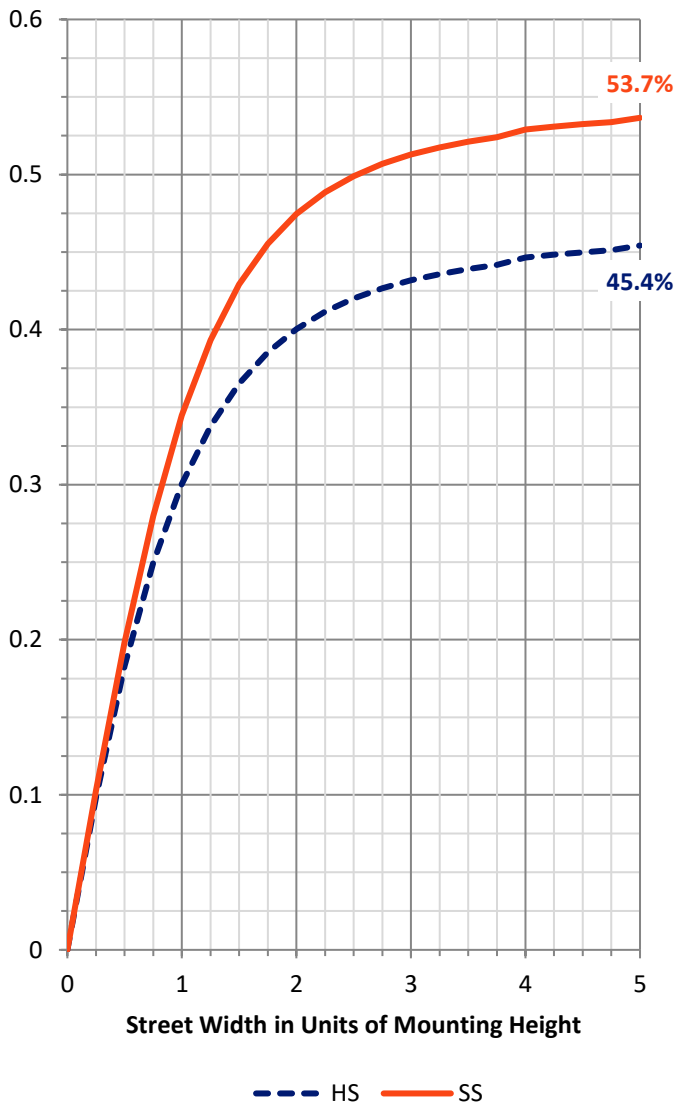
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1891.1	0.0	1891.1
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	2216.3	0.0	2216.3
	% Fixture	54.0	0.0	54.0
Total	Lumens	4107.4	0.0	4107.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.3	0.7
10°-20°	103.2	2.5
20°-30°	220.7	5.4
30°-40°	406.7	9.9
40°-50°	648.6	15.8
50°-60°	882.0	21.5
60°-70°	955.6	23.3
70°-80°	682.8	16.6
80°-90°	178.5	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°	4107.4	100.0
0°-180°	4107.4	100.0

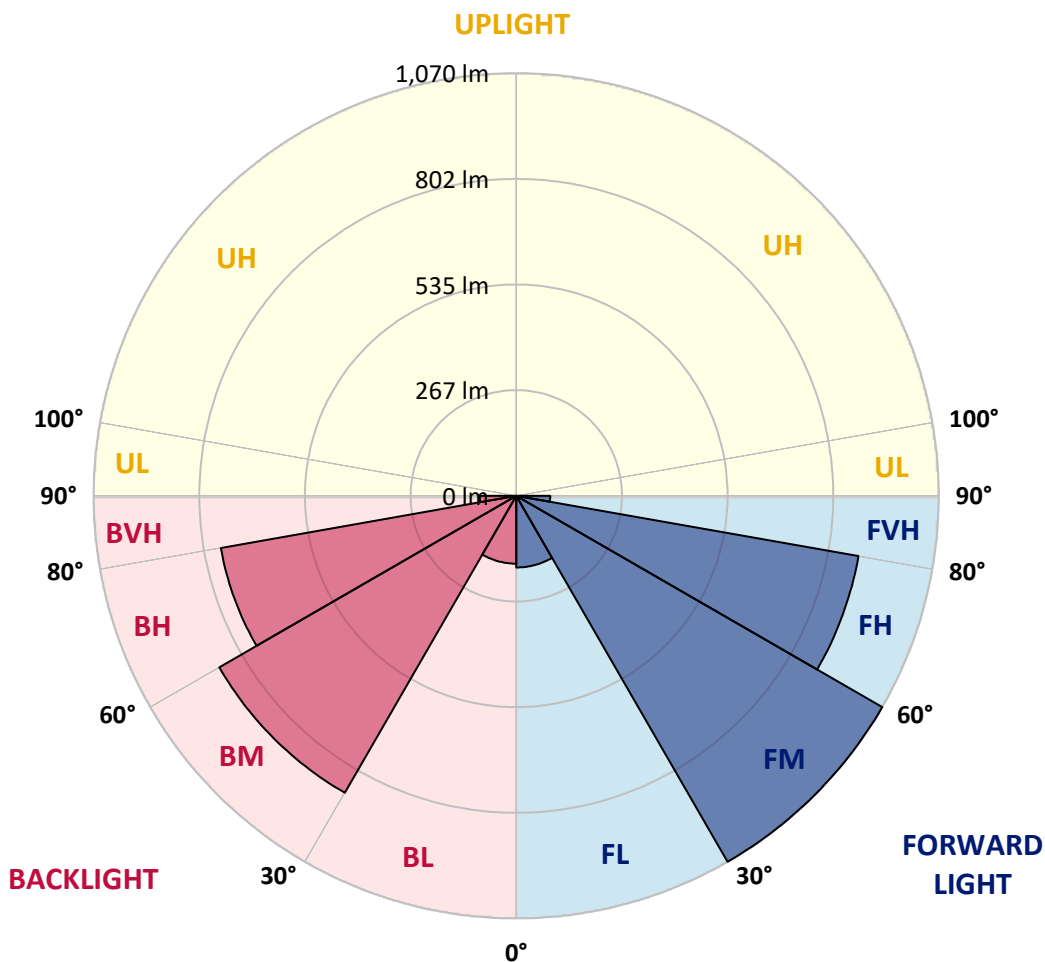


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	181.4	4.4			
FM (30°-60°)	1069.5	26.0			
FH (60°-80°)	879.4	21.4			G1/1800
FVH (80°-90°)	86.0	2.1			G1/100
BL (0°-30°)	171.8	4.2	B1/500		
BM (30°-60°)	867.8	21.1	B1/1000		
BH (60°-80°)	759.1	18.5	B2/1000		G2/1000
BVH (80°-90°)	92.5	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°	290.7	290.7	290.7	290.7	290.7	290.7	290.7	290.7	290.7	290.7	290.7
2.5°	291.3	291.3	291.3	291.3	291.3	291.3	291.3	291.3	291.3	292.0	292.0
5°	293.3	292.7	292.7	293.3	294.0	294.7	296.0	296.6	298.0	299.3	298.6
7.5°	299.3	299.3	299.3	300.0	301.9	303.3	305.2	307.2	309.2	310.5	309.9
10°	308.6	308.6	308.6	309.9	311.9	315.8	319.2	322.5	324.5	325.8	326.4
12.5°	318.5	318.5	319.8	322.5	326.4	331.7	337.7	342.3	345.6	347.0	347.6
15°	332.4	333.1	335.7	338.4	343.7	351.6	361.5	368.2	371.5	374.1	373.5
17.5°	353.6	352.9	354.9	360.9	366.8	378.1	390.0	401.3	407.9	407.9	407.9
20°	377.4	376.8	378.1	382.7	392.7	407.9	426.4	441.7	448.9	447.6	448.9
22.5°	403.9	403.9	405.2	409.2	419.1	441.0	466.8	489.3	499.3	495.9	494.6
25°	433.0	433.0	435.0	438.3	452.2	478.7	513.2	545.6	555.5	552.2	550.9
27.5°	466.8	464.2	468.1	471.4	488.7	523.8	568.8	609.8	631.7	620.4	616.5
30°	502.6	500.6	501.2	507.9	527.7	572.8	626.4	681.3	711.8	704.5	698.6
32.5°	533.7	535.0	537.0	548.3	570.8	625.1	687.3	759.5	793.9	791.9	790.6
35°	568.8	568.8	572.8	583.4	616.5	680.7	756.2	837.6	888.6	890.6	886.6
37.5°	596.6	596.6	602.6	616.5	655.5	731.7	824.4	920.4	982.0	992.6	989.2
40°	621.1	619.8	626.4	646.9	692.6	786.0	891.2	1002.5	1085.3	1103.1	1098.5
42.5°	635.7	637.0	646.3	672.1	728.4	833.6	956.8	1080.0	1176.6	1207.1	1207.1
45°	646.3	647.6	661.5	691.9	760.8	880.7	1016.4	1159.4	1266.0	1310.4	1312.4
47.5°	650.9	652.9	670.1	707.2	788.0	923.7	1074.0	1230.9	1346.1	1409.0	1405.1
50°	650.9	653.5	674.1	718.4	812.5	960.1	1128.3	1299.1	1427.6	1497.8	1497.1
52.5°	646.9	650.2	675.4	727.0	833.0	995.2	1176.6	1357.4	1505.7	1588.5	1591.1
55°	639.0	642.9	672.1	732.3	848.9	1023.0	1215.7	1411.7	1573.3	1666.6	1672.6
57.5°	623.1	627.1	660.2	727.7	854.8	1037.6	1244.2	1450.1	1628.2	1737.5	1738.8
60°	596.6	601.2	637.0	712.5	848.9	1038.2	1251.5	1467.3	1665.3	1785.1	1789.8
62°	567.5	572.8	613.1	691.3	833.6	1027.6	1243.5	1466.7	1675.2	1799.0	1805.0
62.5°	560.2	564.8	605.9	684.0	827.7	1022.4	1238.9	1463.3	1673.9	1799.7	1804.3
65°	515.1	519.8	561.5	644.3	791.3	989.9	1205.1	1434.2	1650.1	1773.2	1774.5
67.5°	465.5	470.1	511.8	590.0	739.0	935.6	1148.2	1376.6	1586.5	1693.1	1703.0
70°	407.9	414.5	452.9	530.4	670.1	857.5	1058.1	1285.2	1485.2	1575.9	1585.2
72.5°	350.9	355.6	386.0	454.2	580.7	754.8	941.6	1146.8	1328.9	1415.0	1423.0
75°	284.7	288.7	318.5	374.8	480.7	629.0	805.2	984.6	1150.1	1227.6	1233.6
77.5°	224.5	225.8	247.0	292.0	373.5	493.3	639.0	780.7	931.0	1001.2	1017.1
80°	158.3	164.9	179.4	210.6	262.2	353.6	458.9	580.0	685.3	764.1	769.4
82.5°	102.6	104.0	113.2	124.5	161.6	223.1	292.0	366.8	460.9	511.8	507.9
85°	53.6	53.6	56.9	60.3	72.8	100.0	141.0	193.3	248.3	286.7	281.4
87.5°	9.3	8.6	9.3	8.6	11.3	15.9	29.8	48.3	72.8	86.1	94.7
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°	290.7	290.7	290.7	290.7	290.7	290.7	290.7	290.7	290.7	290.7	290.7
2.5°	292.0	292.0	292.7	294.0	294.0	294.7	295.3	295.3	296.0	296.6	296.6
5°	300.0	300.0	300.6	301.9	302.6	302.6	303.3	303.9	303.9	303.9	304.6
7.5°	310.5	311.2	311.9	312.5	313.2	313.2	315.2	314.5	314.5	314.5	314.5
10°	325.8	327.1	327.1	327.1	327.1	326.4	327.1	326.4	325.1	325.1	324.5
12.5°	348.3	348.3	347.0	345.6	343.7	343.0	342.3	340.3	337.7	336.4	336.4
15°	374.1	372.8	370.1	367.5	364.2	361.5	356.9	354.2	350.9	349.6	349.6
17.5°	407.2	405.2	397.9	392.7	384.7	378.7	373.5	368.2	364.2	362.9	362.2
20°	445.0	440.3	429.7	417.8	407.2	397.9	388.0	381.4	377.4	374.1	373.5
22.5°	492.6	486.0	467.5	448.9	429.7	416.5	403.9	394.6	387.4	384.0	382.7
25°	544.3	534.4	510.5	482.7	456.2	435.7	419.8	407.2	398.6	393.3	392.0
27.5°	609.8	595.3	560.2	518.5	483.4	457.5	435.7	421.1	409.9	401.9	400.6
30°	686.6	671.4	613.1	558.2	513.8	477.4	453.6	434.4	420.5	411.2	409.2
32.5°	778.0	750.2	683.3	605.9	544.9	500.6	470.1	447.6	430.4	419.8	417.2
35°	870.7	842.2	754.2	656.2	578.1	524.4	488.0	460.9	441.7	428.4	427.1
37.5°	974.7	940.2	837.0	713.1	613.8	549.6	504.6	473.4	450.3	436.4	435.0
40°	1086.6	1051.5	925.7	778.7	656.2	574.1	520.4	485.4	459.5	444.3	442.3
42.5°	1196.5	1154.8	1015.7	844.2	699.2	601.2	539.0	497.9	467.5	451.6	448.9
45°	1291.8	1255.4	1107.1	919.7	748.9	629.0	557.5	509.9	476.1	458.2	455.6
47.5°	1399.8	1360.7	1207.1	989.2	796.6	660.8	575.4	520.4	483.4	464.2	462.2
50°	1495.1	1460.0	1295.8	1053.5	842.2	690.6	592.0	530.4	489.3	468.8	466.2
52.5°	1581.9	1550.7	1377.3	1113.7	881.3	718.4	607.2	537.7	493.3	470.8	467.5
55°	1669.3	1628.9	1448.1	1166.7	912.4	740.3	619.8	541.0	492.6	469.5	466.2
57.5°	1734.8	1696.4	1499.8	1204.4	935.6	754.8	627.1	540.3	488.7	463.5	459.5
60°	1779.2	1736.8	1530.2	1223.0	943.6	759.5	627.1	534.4	478.7	451.6	447.6
62°	1795.7	1746.7	1536.2	1225.6	940.2	754.8	622.4	524.4	465.5	439.0	435.0
62.5°	1796.4	1746.1	1534.2	1223.6	938.3	752.9	619.8	521.1	462.2	435.0	431.1
65°	1767.3	1716.9	1510.4	1203.1	915.7	735.0	601.2	501.9	439.0	412.5	408.5
67.5°	1683.8	1645.4	1453.4	1155.4	877.3	701.9	574.1	474.1	411.9	384.0	382.1
70°	1568.0	1532.9	1360.7	1083.3	821.7	654.2	533.7	437.0	377.4	352.3	347.6
72.5°	1422.3	1376.6	1228.9	986.6	741.6	588.6	480.7	390.7	337.7	315.2	312.5
75°	1241.5	1186.6	1063.4	858.8	645.6	509.9	419.1	339.0	292.0	272.8	274.8
77.5°	1011.1	985.3	859.5	684.7	525.7	421.8	343.7	287.4	247.0	231.1	229.8
80°	763.5	739.0	650.9	519.8	397.3	319.2	266.2	226.5	198.6	184.7	184.1
82.5°	517.8	494.6	427.7	349.0	270.8	225.8	192.7	166.9	149.6	143.0	143.0
85°	284.7	264.9	226.5	188.7	153.0	129.1	124.5	111.2	106.6	105.3	106.6
87.5°	88.7	88.1	74.8	61.6	53.6	54.3	49.0	50.3	47.7	47.0	50.3
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)