

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: P472322

Luminaire Tested: **CCW-VA-2-740-U-T3**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472322
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-2-740-U-T3
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS
Light Source: 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3817.1 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

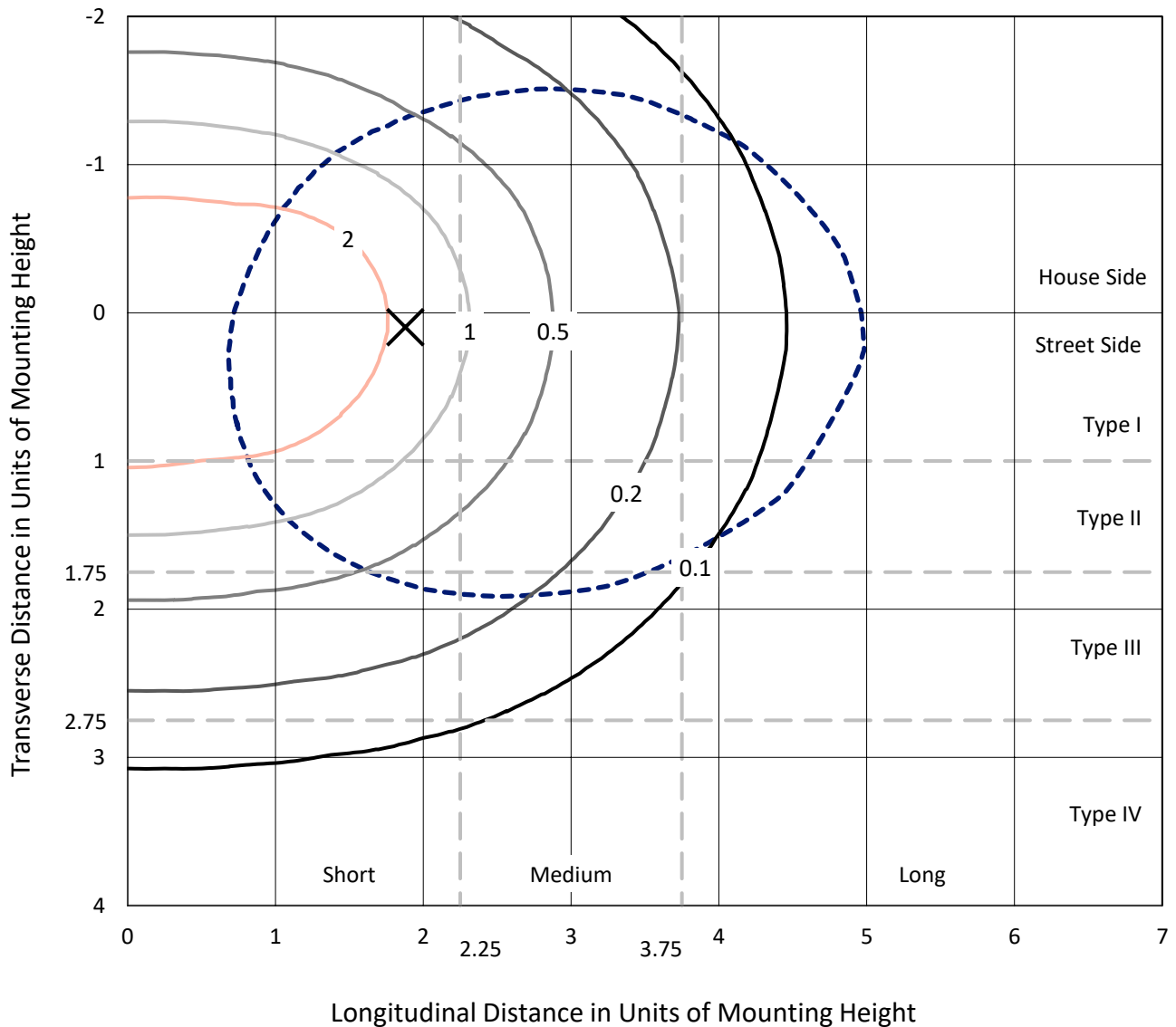
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

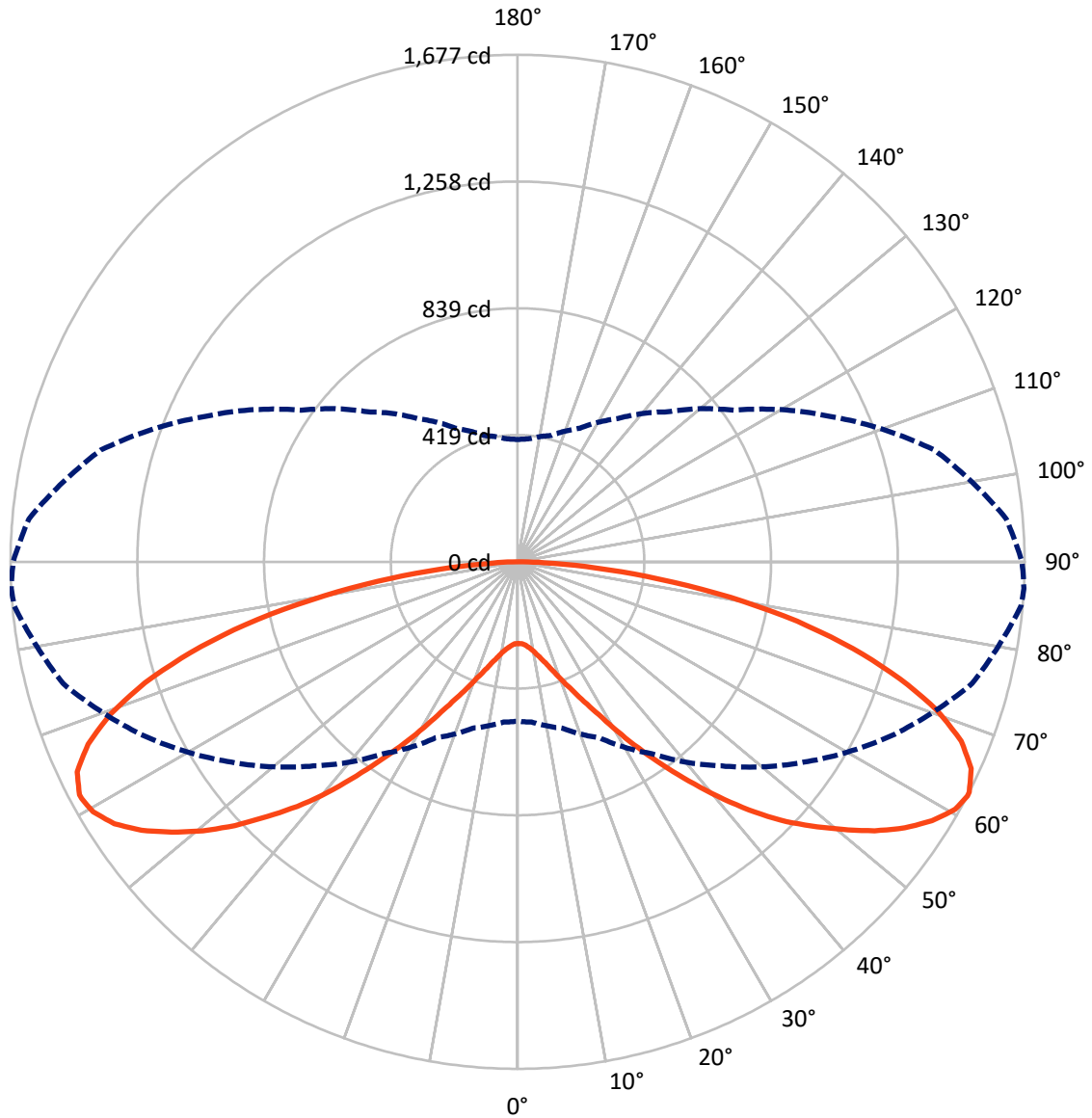
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 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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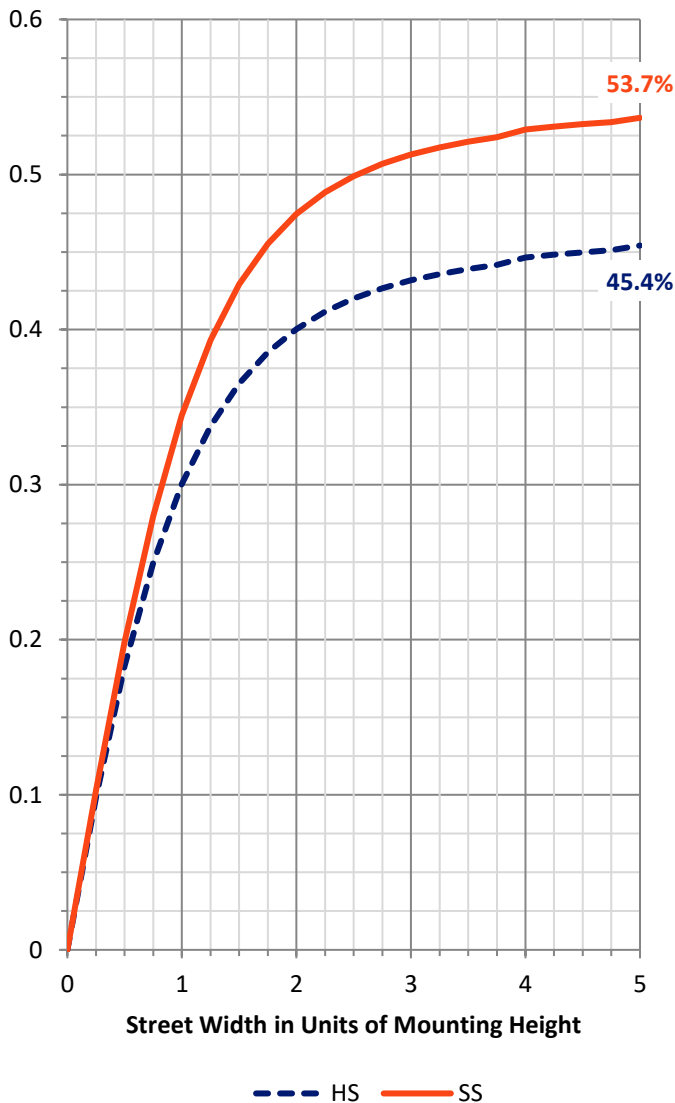
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1757.5	0.0	1757.5
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	2059.6	0.0	2059.6
	% Fixture	54.0	0.0	54.0
Total	Lumens	3817.1	0.0	3817.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.2	0.7
10°-20°	95.9	2.5
20°-30°	205.1	5.4
30°-40°	378.0	9.9
40°-50°	602.8	15.8
50°-60°	819.7	21.5
60°-70°	888.1	23.3
70°-80°	634.6	16.6
80°-90°	165.9	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°	3817.1	100.0
0°-180°	3817.1	100.0

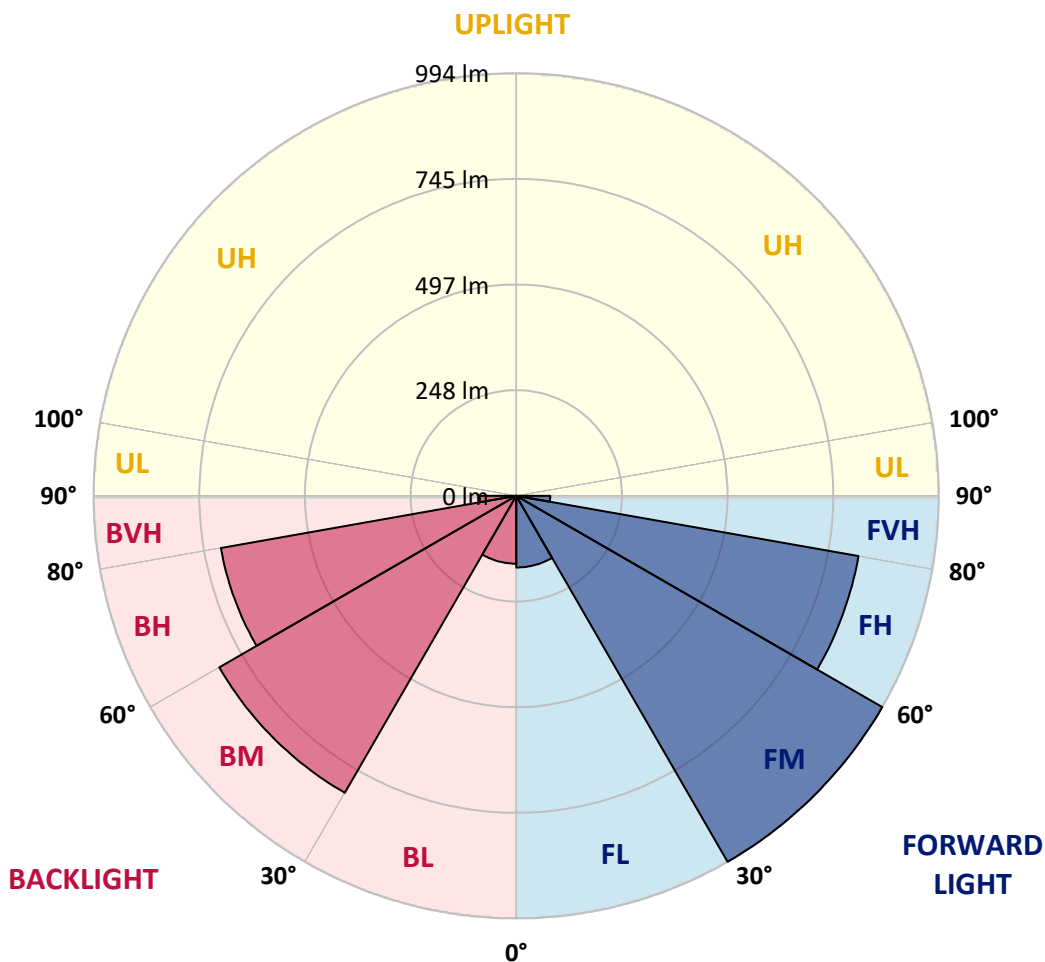


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	168.6	4.4			
FM (30°-60°)	993.9	26.0			
FH (60°-80°)	817.2	21.4			G1/1800
FVH (80°-90°)	79.9	2.1			G1/100
BL (0°-30°)	159.6	4.2	B1/500		
BM (30°-60°)	806.5	21.1	B1/1000		
BH (60°-80°)	705.4	18.5	B2/1000		G2/1000
BVH (80°-90°)	86.0	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°	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1
2.5°	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8	271.4	271.4
5°	272.6	272.0	272.0	272.6	273.2	273.8	275.1	275.7	276.9	278.1	277.5
7.5°	278.1	278.1	278.1	278.8	280.6	281.8	283.7	285.5	287.4	288.6	288.0
10°	286.8	286.8	286.8	288.0	289.8	293.5	296.6	299.7	301.5	302.8	303.4
12.5°	296.0	296.0	297.2	299.7	303.4	308.3	313.8	318.1	321.2	322.4	323.1
15°	308.9	309.5	312.0	314.4	319.4	326.7	336.0	342.1	345.2	347.7	347.1
17.5°	328.6	328.0	329.8	335.4	340.9	351.4	362.4	372.9	379.1	379.1	379.1
20°	350.7	350.1	351.4	355.7	364.9	379.1	396.3	410.4	417.2	416.0	417.2
22.5°	375.4	375.4	376.6	380.3	389.5	409.8	433.8	454.7	464.0	460.9	459.7
25°	402.4	402.4	404.3	407.4	420.3	444.9	476.9	507.0	516.3	513.2	512.0
27.5°	433.8	431.4	435.1	438.1	454.1	486.7	528.6	566.7	587.0	576.6	572.9
30°	467.0	465.2	465.8	472.0	490.4	532.3	582.1	633.2	661.5	654.7	649.2
32.5°	496.0	497.2	499.0	509.5	530.4	580.9	638.7	705.8	737.8	736.0	734.7
35°	528.6	528.6	532.3	542.1	572.9	632.6	702.7	778.4	825.8	827.6	824.0
37.5°	554.4	554.4	560.0	572.9	609.2	680.0	766.1	855.3	912.6	922.4	919.3
40°	577.2	576.0	582.1	601.2	643.7	730.4	828.3	931.6	1008.6	1025.2	1020.9
42.5°	590.7	592.0	600.6	624.6	676.9	774.7	889.2	1003.6	1093.5	1121.8	1121.8
45°	600.6	601.8	614.7	643.0	707.0	818.4	944.6	1077.5	1176.5	1217.8	1219.6
47.5°	604.9	606.7	622.7	657.2	732.3	858.4	998.1	1143.9	1251.0	1309.5	1305.8
50°	604.9	607.3	626.4	667.7	755.0	892.3	1048.6	1207.3	1326.7	1391.9	1391.3
52.5°	601.2	604.3	627.7	675.7	774.1	924.9	1093.5	1261.5	1399.3	1476.2	1478.7
55°	593.8	597.5	624.6	680.6	788.9	950.7	1129.8	1311.9	1462.1	1548.8	1554.4
57.5°	579.0	582.7	613.5	676.3	794.4	964.2	1156.2	1347.6	1513.1	1614.7	1615.9
60°	554.4	558.7	592.0	662.1	788.9	964.9	1163.0	1363.6	1547.6	1659.0	1663.3
62°	527.4	532.3	569.8	642.4	774.7	955.0	1155.6	1363.0	1556.8	1671.9	1677.4
62.5°	520.6	524.9	563.0	635.7	769.2	950.1	1151.3	1359.9	1555.6	1672.5	1676.8
65°	478.7	483.0	521.8	598.7	735.3	919.9	1119.9	1332.8	1533.4	1647.9	1649.1
67.5°	432.6	436.9	475.7	548.3	686.7	869.5	1067.0	1279.3	1474.4	1573.4	1582.7
70°	379.1	385.2	420.9	492.9	622.7	796.9	983.3	1194.4	1380.2	1464.5	1473.1
72.5°	326.1	330.4	358.7	422.1	539.7	701.5	875.0	1065.8	1235.0	1315.0	1322.4
75°	264.6	268.3	296.0	348.3	446.7	584.6	748.3	915.0	1068.9	1140.9	1146.4
77.5°	208.6	209.8	229.5	271.4	347.1	458.4	593.8	725.5	865.2	930.4	945.2
80°	147.1	153.2	166.8	195.7	243.7	328.6	426.4	539.0	636.9	710.1	715.0
82.5°	95.4	96.6	105.2	115.7	150.1	207.4	271.4	340.9	428.3	475.7	472.0
85°	49.8	49.8	52.9	56.0	67.7	92.9	131.1	179.7	230.8	266.4	261.5
87.5°	8.6	8.0	8.6	8.0	10.5	14.8	27.7	44.9	67.7	80.0	88.0
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°	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1
2.5°	271.4	271.4	272.0	273.2	273.2	273.8	274.4	274.4	275.1	275.7	275.7
5°	278.8	278.8	279.4	280.6	281.2	281.2	281.8	282.4	282.4	282.4	283.1
7.5°	288.6	289.2	289.8	290.4	291.1	291.1	292.9	292.3	292.3	292.3	292.3
10°	302.8	304.0	304.0	304.0	304.0	303.4	304.0	303.4	302.1	302.1	301.5
12.5°	323.7	323.7	322.4	321.2	319.4	318.7	318.1	316.3	313.8	312.6	312.6
15°	347.7	346.4	344.0	341.5	338.4	336.0	331.7	329.2	326.1	324.9	324.9
17.5°	378.4	376.6	369.8	364.9	357.5	352.0	347.1	342.1	338.4	337.2	336.6
20°	413.5	409.2	399.4	388.3	378.4	369.8	360.6	354.4	350.7	347.7	347.1
22.5°	457.8	451.7	434.4	417.2	399.4	387.1	375.4	366.7	360.0	356.9	355.7
25°	505.8	496.6	474.4	448.6	424.0	404.9	390.1	378.4	370.4	365.5	364.3
27.5°	566.7	553.2	520.6	481.8	449.2	425.2	404.9	391.4	380.9	373.5	372.3
30°	638.1	624.0	569.8	518.7	477.5	443.7	421.5	403.7	390.7	382.1	380.3
32.5°	723.0	697.2	635.0	563.0	506.4	465.2	436.9	416.0	400.0	390.1	387.7
35°	809.2	782.7	700.9	609.8	537.2	487.4	453.5	428.3	410.4	398.1	396.9
37.5°	905.8	873.8	777.8	662.7	570.4	510.7	468.9	440.0	418.4	405.5	404.3
40°	1009.8	977.2	860.3	723.6	609.8	533.5	483.7	451.0	427.1	412.9	411.1
42.5°	1111.9	1073.2	943.9	784.6	649.8	558.7	500.9	462.7	434.4	419.7	417.2
45°	1200.5	1166.7	1028.9	854.7	696.0	584.6	518.1	473.8	442.4	425.8	423.4
47.5°	1300.8	1264.5	1121.8	919.3	740.3	614.1	534.7	483.7	449.2	431.4	429.5
50°	1389.5	1356.8	1204.2	979.0	782.7	641.8	550.1	492.9	454.7	435.7	433.2
52.5°	1470.1	1441.1	1279.9	1035.0	819.0	667.7	564.3	499.7	458.4	437.5	434.4
55°	1551.3	1513.8	1345.8	1084.2	847.9	688.0	576.0	502.7	457.8	436.3	433.2
57.5°	1612.2	1576.5	1393.8	1119.3	869.5	701.5	582.7	502.1	454.1	430.7	427.1
60°	1653.4	1614.1	1422.1	1136.5	876.9	705.8	582.7	496.6	444.9	419.7	416.0
62°	1668.8	1623.3	1427.6	1139.0	873.8	701.5	578.4	487.4	432.6	408.0	404.3
62.5°	1669.4	1622.7	1425.8	1137.2	871.9	699.7	576.0	484.3	429.5	404.3	400.6
65°	1642.4	1595.6	1403.6	1118.1	851.0	683.0	558.7	466.4	408.0	383.4	379.7
67.5°	1564.8	1529.1	1350.7	1073.8	815.3	652.3	533.5	440.6	382.7	356.9	355.1
70°	1457.1	1424.5	1264.5	1006.7	763.6	608.0	496.0	406.1	350.7	327.4	323.1
72.5°	1321.8	1279.3	1142.1	916.9	689.2	547.0	446.7	363.1	313.8	292.9	290.4
75°	1153.8	1102.7	988.2	798.1	600.0	473.8	389.5	315.1	271.4	253.5	255.4
77.5°	939.6	915.6	798.7	636.3	488.6	392.0	319.4	267.1	229.5	214.8	213.5
80°	709.5	686.7	604.9	483.0	369.2	296.6	247.4	210.4	184.6	171.7	171.1
82.5°	481.2	459.7	397.5	324.3	251.7	209.8	179.1	155.1	139.1	132.9	132.9
85°	264.6	246.1	210.4	175.4	142.1	120.0	115.7	103.4	99.1	97.8	99.1
87.5°	82.5	81.8	69.5	57.2	49.8	50.5	45.5	46.8	44.3	43.7	46.8
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)