

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: P472286

Luminaire Tested: **CCW-VA-2-827-U-T4FT**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472286
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-2-827-U-T4FT
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3953.1 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

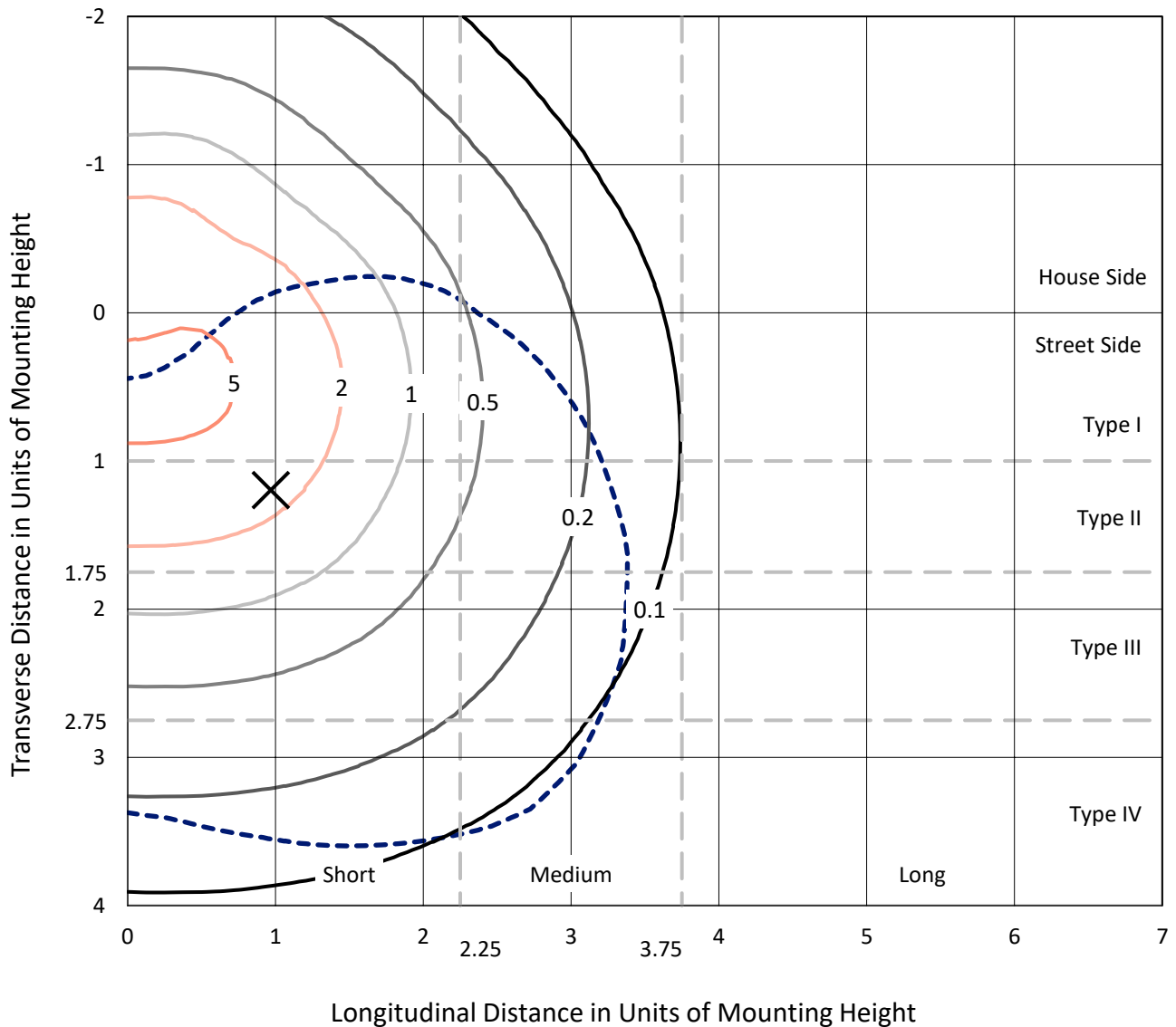
Input Watts (W): 40.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

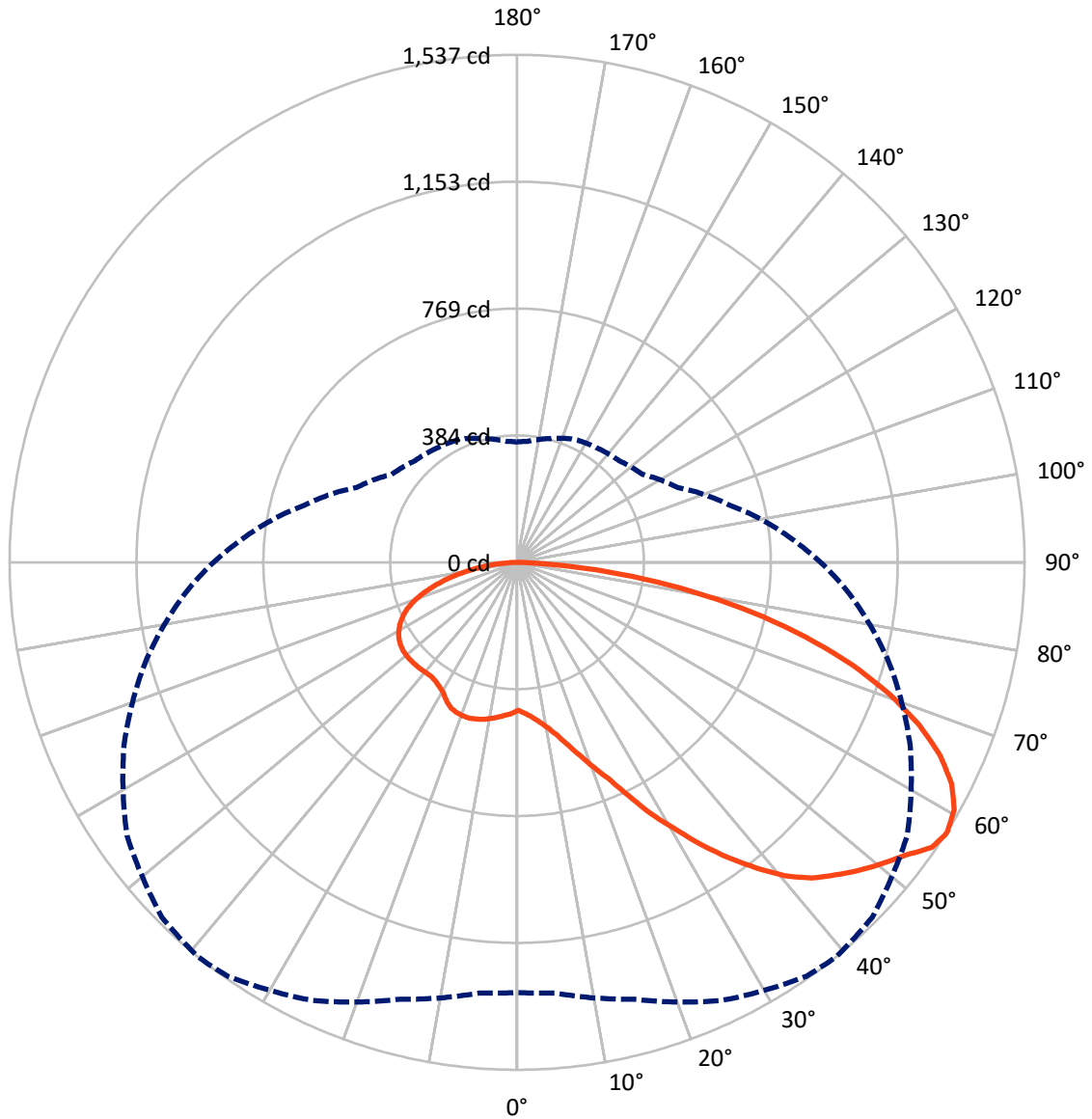
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1212.9	0.0	1212.9
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	2740.1	0.0	2740.1
	% Fixture	69.3	0.0	69.3
Total	Lumens	3953.1	0.0	3953.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	1.1
10°-20°	151.4	3.8
20°-30°	292.4	7.4
30°-40°	473.0	12.0
40°-50°	664.5	16.8
50°-60°	820.8	20.8
60°-70°	815.8	20.6
70°-80°	552.0	14.0
80°-90°	137.8	3.5
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°	3953.1	100.0
0°-180°	3953.1	100.0

Coefficient of Utilization

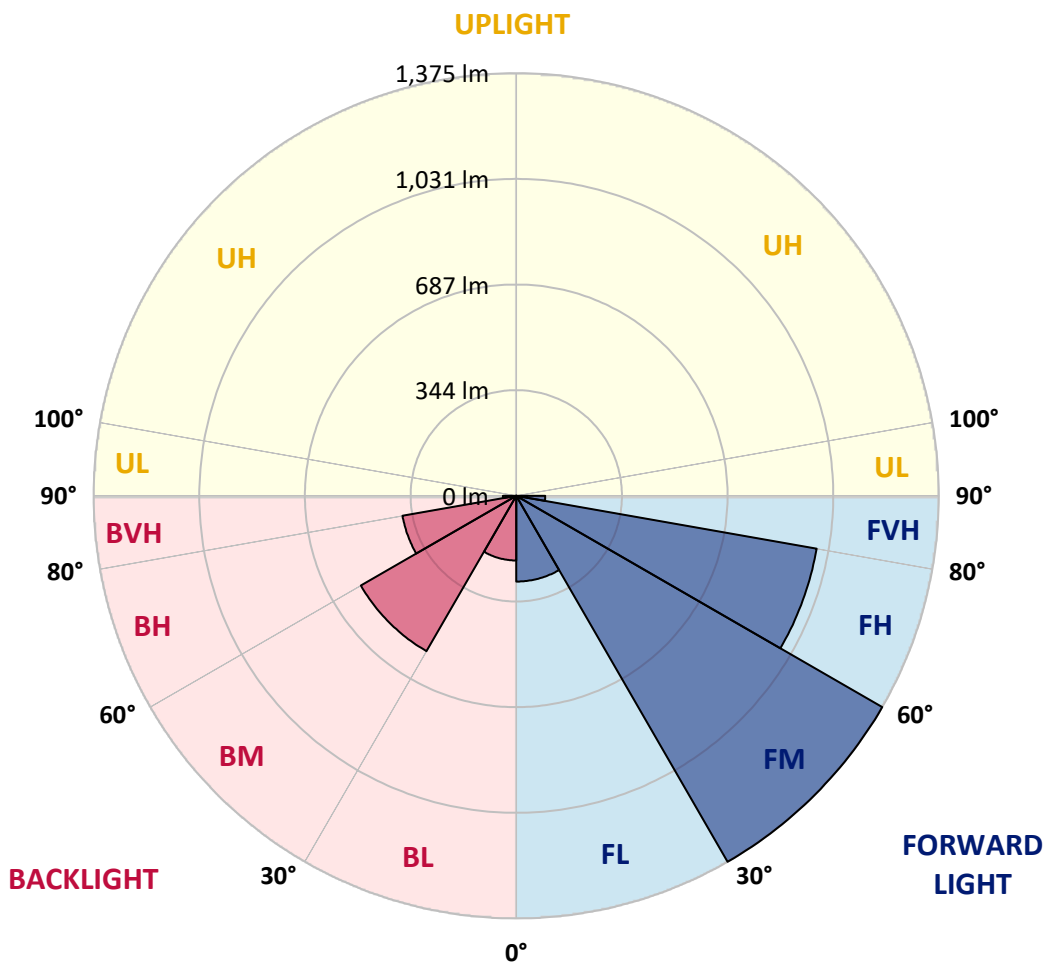


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	278.9	7.1			
FM (30°-60°)	1374.7	34.8			
FH (60°-80°)	992.2	25.1			G1/1800
FVH (80°-90°)	94.3	2.4			G1/100
BL (0°-30°)	210.2	5.3	B1/500		
BM (30°-60°)	583.6	14.8	B1/1000		
BH (60°-80°)	375.6	9.5	B1/500		G1/500
BVH (80°-90°)	43.5	1.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3
2.5°	461.6	461.0	460.4	460.4	459.2	457.9	457.3	456.1	456.7	457.9	458.6
5°	474.9	473.7	473.7	472.5	470.7	470.7	468.9	466.4	465.8	465.2	465.2
7.5°	495.5	493.7	494.3	492.5	490.7	488.2	485.2	482.2	481.0	476.7	473.1
10°	519.1	518.5	516.7	513.7	511.9	509.4	506.4	501.0	496.7	491.9	488.8
12.5°	547.0	545.8	546.4	544.0	540.9	536.7	531.9	526.4	518.5	509.4	503.4
15°	583.3	580.9	580.9	580.3	574.3	573.0	568.2	556.1	545.2	533.1	519.1
17.5°	627.6	627.0	624.5	622.1	618.5	614.2	609.4	596.1	579.7	560.9	542.1
20°	674.8	673.6	675.4	671.8	664.5	662.7	654.8	639.7	619.7	597.9	569.4
22.5°	726.3	727.5	727.5	726.3	720.2	713.0	706.3	686.3	663.3	636.6	603.3
25°	788.7	789.3	792.9	796.6	792.9	781.4	772.3	741.4	710.5	676.6	637.3
27.5°	859.0	854.7	865.0	871.7	865.0	862.0	842.0	808.1	765.7	723.3	674.2
30°	926.8	926.8	935.3	945.0	940.7	933.5	917.1	873.5	825.0	771.1	711.8
32.5°	989.8	997.1	1000.7	1023.1	1020.7	1017.1	998.3	940.7	880.2	819.0	748.1
35°	1064.3	1061.9	1077.0	1091.0	1101.9	1097.0	1083.1	1024.9	945.6	869.3	788.1
37.5°	1120.6	1125.5	1138.8	1163.6	1171.5	1173.9	1156.4	1096.4	1006.2	923.2	832.3
40°	1163.6	1167.3	1192.7	1224.2	1240.6	1249.1	1231.5	1158.8	1063.1	966.2	866.8
42.5°	1198.2	1200.6	1227.3	1272.1	1299.3	1307.8	1292.1	1215.1	1111.6	1000.7	895.3
45°	1221.2	1225.4	1256.9	1303.0	1345.4	1351.4	1343.6	1264.8	1154.6	1033.4	915.9
47.5°	1241.2	1246.0	1281.2	1339.3	1386.6	1394.4	1387.2	1308.4	1195.8	1063.1	933.5
50°	1267.8	1273.3	1308.4	1373.2	1425.3	1434.4	1432.0	1354.5	1234.5	1096.4	951.6
52.5°	1293.3	1297.5	1339.3	1411.4	1467.7	1473.8	1472.0	1397.5	1273.9	1132.2	974.7
55°	1313.3	1318.1	1367.8	1456.8	1517.4	1524.1	1511.4	1430.8	1304.8	1158.2	996.5
57°	1303.0	1309.6	1370.2	1464.7	1530.1	1537.4	1521.0	1442.9	1313.9	1165.5	1004.3
57.5°	1299.9	1304.8	1367.8	1464.1	1530.7	1537.4	1521.0	1442.3	1313.3	1164.9	1004.3
60°	1255.7	1267.2	1338.1	1442.3	1513.2	1521.6	1505.9	1418.1	1298.1	1147.9	988.0
62.5°	1196.4	1212.1	1286.6	1390.8	1470.8	1476.8	1461.1	1377.5	1264.2	1112.2	954.1
65°	1110.9	1135.2	1213.3	1313.9	1400.5	1407.8	1392.0	1309.6	1207.9	1057.6	903.2
67.5°	1027.4	1041.9	1125.5	1221.2	1301.8	1312.7	1299.3	1226.0	1130.3	985.0	835.3
70°	932.3	942.6	1011.6	1105.5	1186.7	1195.8	1184.2	1115.8	1025.5	894.7	756.0
72.5°	817.8	828.7	887.4	974.0	1046.1	1060.7	1052.8	981.9	900.1	786.9	667.5
75°	688.7	700.9	753.6	822.6	892.9	901.4	892.3	840.2	766.3	663.9	559.7
77.5°	558.5	566.4	604.5	656.6	711.2	729.3	726.9	690.0	615.4	534.3	449.5
80°	418.0	419.2	439.2	482.2	525.8	539.1	542.1	508.8	459.8	398.6	336.8
82.5°	264.1	268.3	279.3	311.4	332.6	350.7	355.0	335.6	304.7	266.5	228.4
85°	123.0	119.3	127.8	138.7	169.0	169.0	174.5	164.2	155.1	142.4	118.1
87.5°	10.3	9.7	9.7	10.3	16.4	17.6	27.9	30.9	33.3	33.3	35.1
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°	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3
2.5°	457.3	456.7	454.9	454.9	456.1	457.9	458.6	459.2	459.8	460.4	460.4
5°	464.6	464.0	462.8	461.6	462.8	463.4	465.2	466.4	466.4	467.6	467.0
7.5°	471.3	471.9	470.7	470.1	470.1	471.3	473.7	475.5	476.7	477.3	478.5
10°	486.4	482.8	477.9	475.5	475.5	477.9	480.4	482.8	485.2	486.4	486.4
12.5°	499.7	495.5	486.4	482.8	482.2	484.6	487.6	491.3	493.1	494.9	494.9
15°	511.9	508.2	497.3	488.8	486.4	488.2	491.9	496.1	499.1	501.0	501.0
17.5°	534.9	524.0	509.4	495.5	490.7	491.3	495.5	499.7	503.4	504.6	504.0
20°	556.7	542.8	520.9	501.0	493.1	490.7	494.9	500.4	503.4	505.2	505.2
22.5°	581.5	566.4	532.5	506.4	491.9	488.2	491.9	496.7	500.4	501.6	502.8
25°	616.7	590.0	545.2	510.6	490.1	482.8	485.2	490.1	494.3	494.9	494.3
27.5°	648.2	617.9	562.1	514.9	485.8	472.5	470.1	473.7	480.4	484.6	485.8
30°	675.4	647.5	579.7	518.5	477.9	455.5	452.5	453.7	457.9	469.5	470.1
32.5°	716.0	673.0	597.3	521.6	468.9	446.4	442.2	441.0	442.2	448.3	448.3
35°	743.9	701.5	614.8	527.0	462.2	439.2	434.9	433.1	431.9	425.8	424.0
37.5°	780.2	733.0	631.8	531.9	459.2	436.1	430.1	431.3	425.2	408.3	403.4
40°	820.2	761.4	648.8	536.7	460.4	436.7	431.3	430.7	420.4	396.8	391.9
42.5°	839.6	785.7	666.3	543.4	465.2	438.6	433.7	431.9	419.2	392.5	385.9
45°	858.4	803.2	679.0	548.8	470.1	441.0	434.9	433.1	418.6	388.9	384.0
47.5°	875.3	814.1	685.1	551.8	473.7	442.8	435.5	432.5	415.5	387.1	382.2
50°	883.2	820.2	685.1	551.8	474.9	444.6	434.3	430.1	410.7	384.0	379.8
52.5°	895.3	823.8	679.7	548.2	473.1	444.6	431.9	425.2	404.6	379.8	376.2
55°	913.5	830.5	672.4	542.8	468.9	441.0	427.7	418.6	396.2	373.7	370.7
57°	919.5	832.9	667.5	536.1	464.0	436.1	422.8	411.3	388.3	367.7	364.7
57.5°	918.3	831.7	665.7	534.3	462.2	434.3	421.6	409.5	386.5	366.5	363.5
60°	902.0	820.2	654.2	522.8	452.5	424.6	410.7	397.4	373.7	356.2	353.8
62.5°	875.3	794.1	633.6	507.6	439.2	411.3	396.8	381.6	358.0	342.9	341.6
65°	829.9	750.5	603.9	485.8	422.2	393.7	378.0	361.6	341.0	327.7	324.1
67.5°	754.2	692.4	562.1	455.5	396.2	371.9	355.0	338.0	319.2	307.7	305.3
70°	691.2	628.8	508.8	417.4	364.7	341.6	325.9	309.5	293.2	282.9	282.3
72.5°	611.2	551.2	442.2	370.1	324.7	302.3	290.2	275.6	262.9	253.8	253.8
75°	514.3	467.0	373.1	313.8	276.8	260.5	250.2	238.7	227.8	221.7	222.9
77.5°	408.9	373.1	304.7	253.8	226.6	215.6	206.0	199.3	192.6	187.2	187.8
80°	301.7	275.0	224.1	186.6	173.2	163.6	161.7	157.5	153.9	152.0	149.0
82.5°	206.6	182.9	149.0	127.8	118.1	115.1	115.7	115.7	116.3	116.3	115.1
85°	107.2	98.1	75.7	68.4	67.2	70.3	73.9	76.3	75.7	75.7	73.9
87.5°	30.9	27.9	24.2	21.8	23.0	24.8	21.8	21.2	20.6	20.0	20.0
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)