

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: P472287

Luminaire Tested: **CCW-VA-3-827-U-T4FT**

Issue Date: 01/27/2021

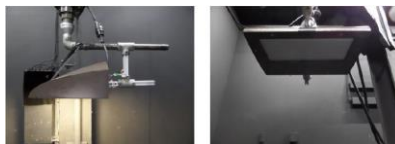
Test Information

Test Method: LM-79-08
Report Number: P472287
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-3-827-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: 4629.6 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

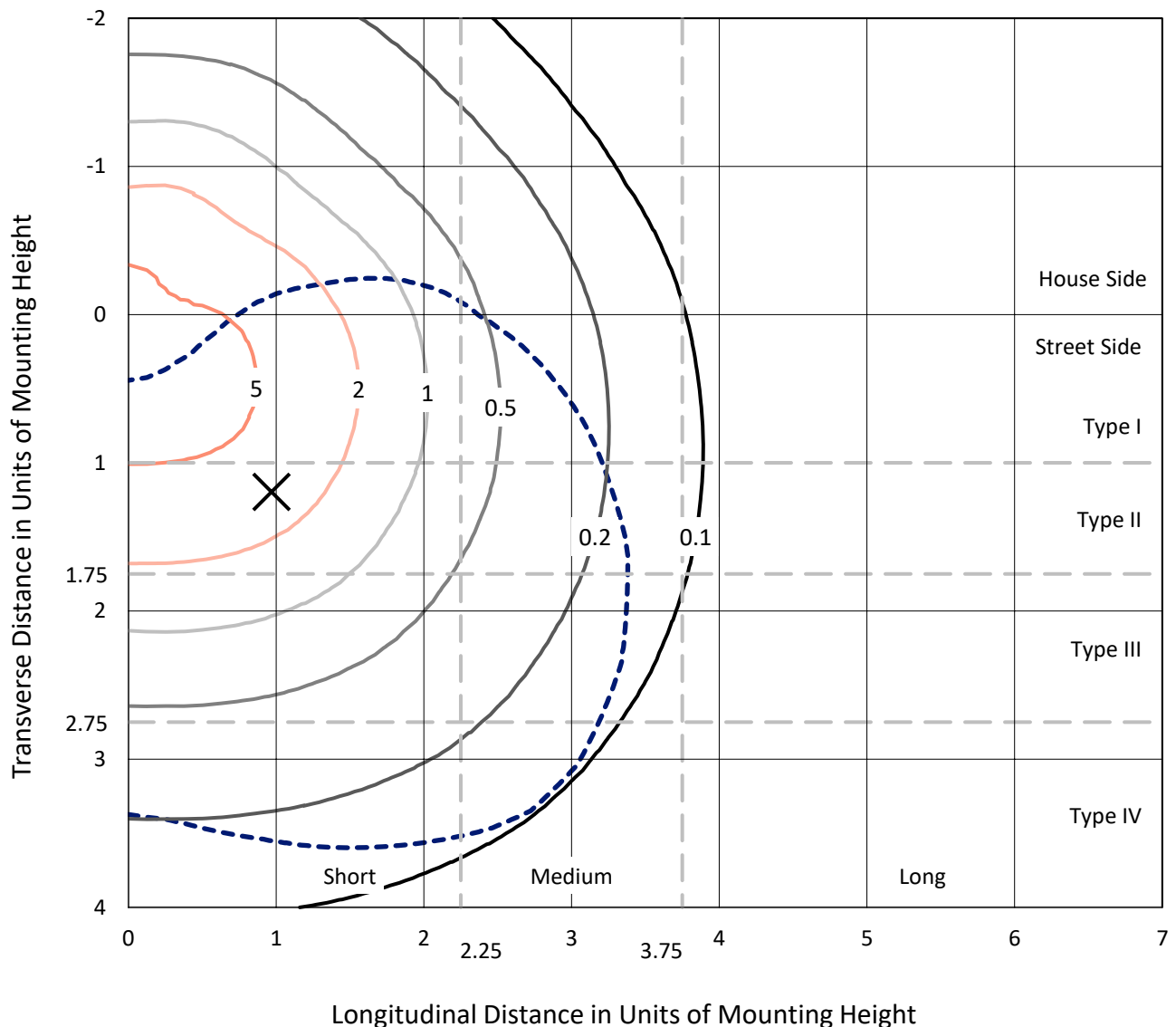
Input Watts (W): 49.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P472287
 CATALOG NUMBER: CCW-VA-3-827-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

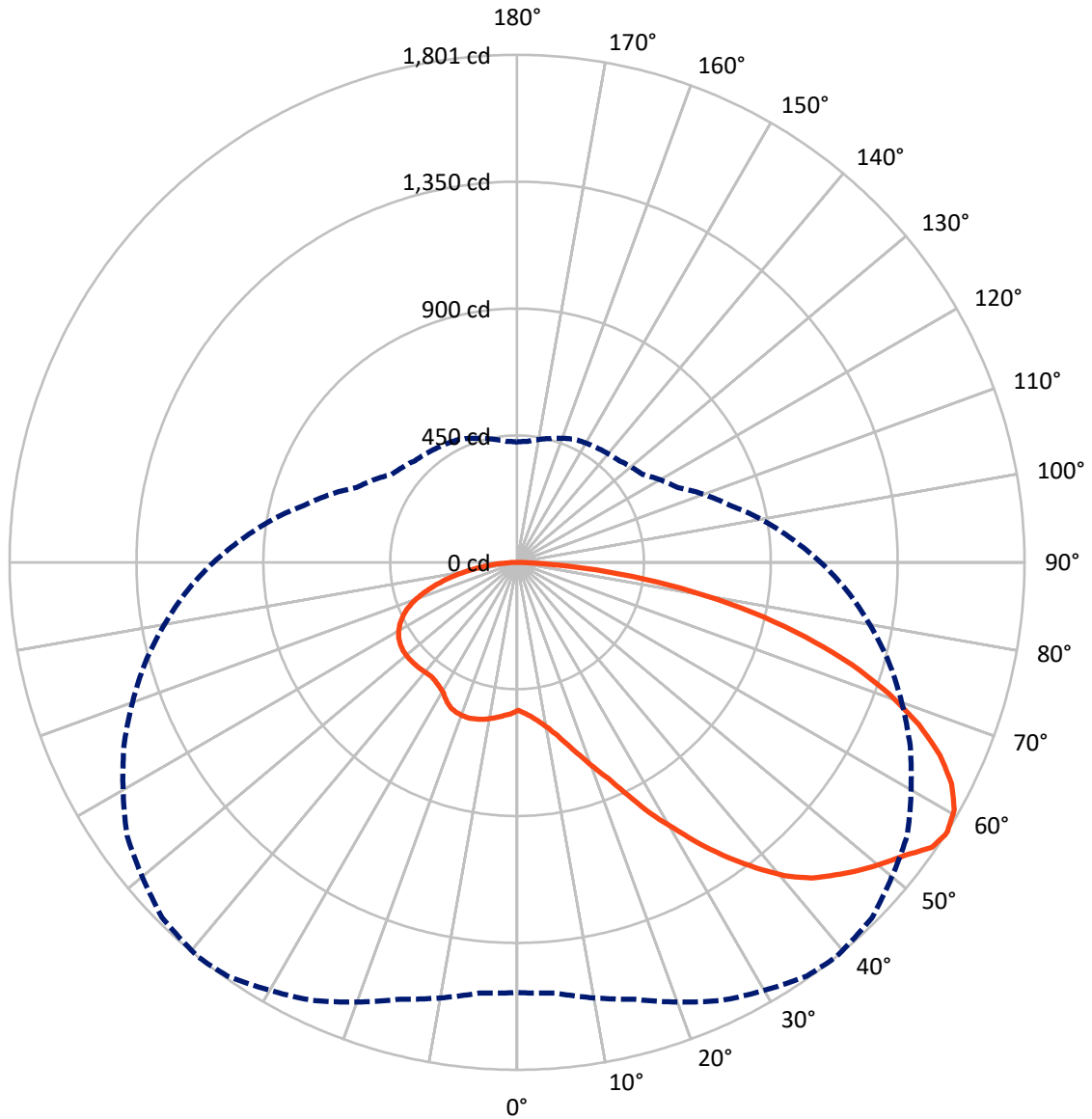
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P472287
CATALOG NUMBER: CCW-VA-3-827-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P472287
 CATALOG NUMBER: CCW-VA-3-827-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1420.5	0.0	1420.5
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	3209.1	0.0	3209.1
	% Fixture	69.3	0.0	69.3
Total	Lumens	4629.6	0.0	4629.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.1
10°-20°	177.3	3.8
20°-30°	342.4	7.4
30°-40°	553.9	12.0
40°-50°	778.2	16.8
50°-60°	961.3	20.8
60°-70°	955.5	20.6
70°-80°	646.5	14.0
80°-90°	161.3	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°	4629.6	100.0
0°-180°	4629.6	100.0

Coefficient of Utilization



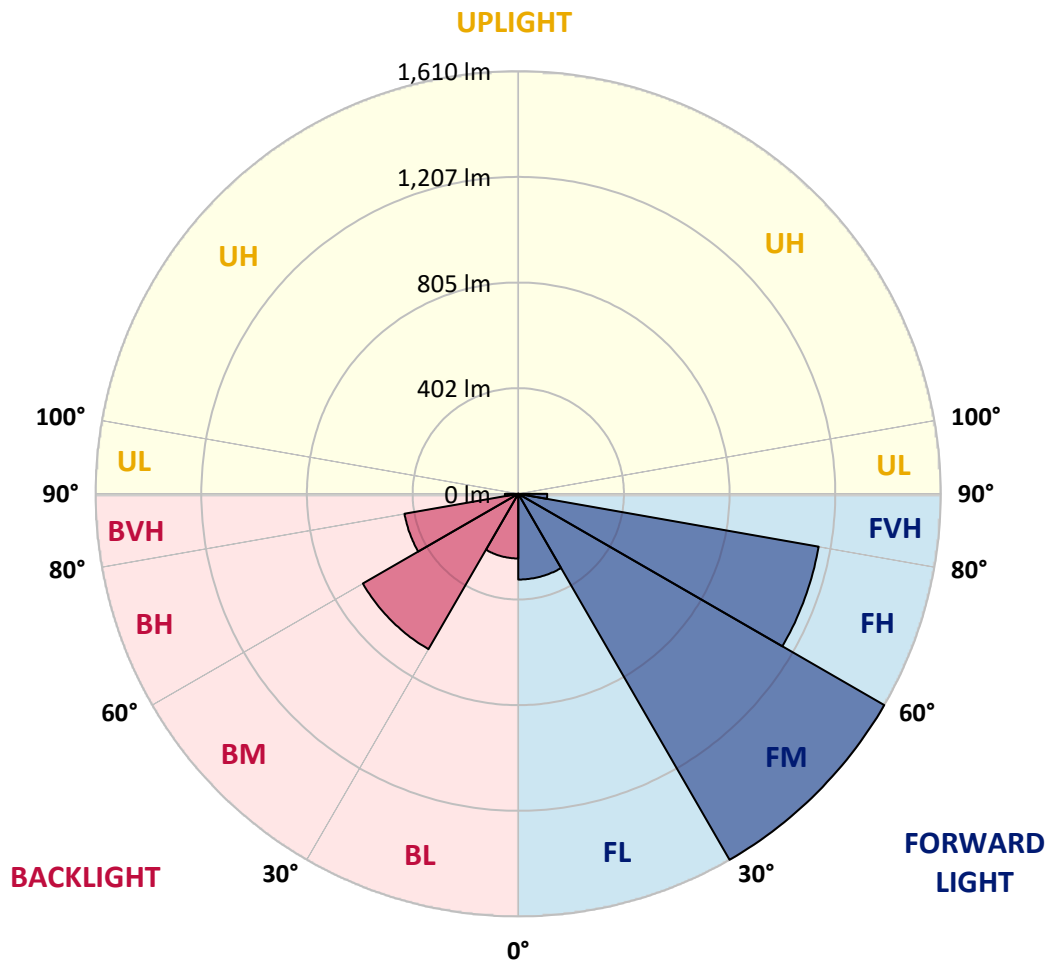
REPORT NUMBER: P472287
 CATALOG NUMBER: CCW-VA-3-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	326.7	7.1			
FM (30°-60°)	1609.9	34.8			
FH (60°-80°)	1162.1	25.1			G1/1800
FVH (80°-90°)	110.4	2.4			G2/225
BL (0°-30°)	246.2	5.3	B1/500		
BM (30°-60°)	683.5	14.8	B1/1000		
BH (60°-80°)	439.9	9.5	B1/500		G1/500
BVH (80°-90°)	50.9	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-G2

Type IV Short





REPORT NUMBER: P472287
 CATALOG NUMBER: CCW-VA-3-827-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0
2.5°	540.6	539.9	539.2	539.2	537.7	536.3	535.6	534.2	534.9	536.3	537.0
5°	556.2	554.8	554.8	553.3	551.2	551.2	549.1	546.3	545.5	544.8	544.8
7.5°	580.3	578.2	578.9	576.8	574.6	571.8	568.2	564.7	563.3	558.3	554.1
10°	608.0	607.3	605.1	601.6	599.5	596.6	593.1	586.7	581.7	576.1	572.5
12.5°	640.6	639.2	639.9	637.1	633.5	628.5	622.9	616.5	607.3	596.6	589.5
15°	683.2	680.3	680.3	679.6	672.5	671.1	665.4	651.2	638.5	624.3	608.0
17.5°	735.0	734.3	731.4	728.6	724.3	719.4	713.7	698.1	678.9	656.9	634.9
20°	790.3	788.9	791.0	786.7	778.2	776.1	766.9	749.1	725.7	700.2	666.9
22.5°	850.6	852.0	852.0	850.6	843.5	835.0	827.2	803.8	776.8	745.6	706.6
25°	923.7	924.4	928.6	932.9	928.6	915.2	904.5	868.3	832.2	792.4	746.3
27.5°	1006.0	1001.0	1013.1	1020.9	1013.1	1009.5	986.1	946.4	896.7	847.1	789.6
30°	1085.4	1085.4	1095.3	1106.7	1101.7	1093.2	1074.1	1023.0	966.2	903.1	833.6
32.5°	1159.2	1167.7	1172.0	1198.2	1195.4	1191.1	1169.1	1101.7	1030.8	959.1	876.1
35°	1246.5	1243.6	1261.4	1277.7	1290.4	1284.8	1268.4	1200.3	1107.4	1018.0	923.0
37.5°	1312.4	1318.1	1333.7	1362.8	1372.0	1374.9	1354.3	1284.1	1178.4	1081.2	974.7
40°	1362.8	1367.1	1396.9	1433.7	1452.9	1462.8	1442.3	1357.1	1245.0	1131.5	1015.2
42.5°	1403.2	1406.1	1437.3	1489.8	1521.7	1531.6	1513.2	1423.1	1301.8	1172.0	1048.5
45°	1430.2	1435.2	1472.1	1526.0	1575.6	1582.7	1573.5	1481.3	1352.2	1210.3	1072.6
47.5°	1453.6	1459.3	1500.4	1568.5	1623.9	1633.1	1624.6	1532.4	1400.4	1245.0	1093.2
50°	1484.8	1491.2	1532.4	1608.3	1669.3	1679.9	1677.1	1586.3	1445.8	1284.1	1114.5
52.5°	1514.6	1519.6	1568.5	1653.0	1718.9	1726.0	1723.9	1636.6	1491.9	1325.9	1141.5
55°	1538.0	1543.7	1601.9	1706.2	1777.1	1784.9	1770.0	1675.7	1528.1	1356.4	1167.0
57°	1526.0	1533.8	1604.7	1715.4	1792.0	1800.5	1781.4	1689.8	1538.7	1364.9	1176.2
57.5°	1522.4	1528.1	1601.9	1714.7	1792.7	1800.5	1781.4	1689.1	1538.0	1364.2	1176.2
60°	1470.6	1484.1	1567.1	1689.1	1772.1	1782.1	1763.6	1660.8	1520.3	1344.4	1157.1
62.5°	1401.1	1419.6	1506.8	1628.8	1722.5	1729.6	1711.1	1613.2	1480.6	1302.5	1117.3
65°	1301.1	1329.5	1421.0	1538.7	1640.2	1648.7	1630.3	1533.8	1414.6	1238.7	1057.7
67.5°	1203.2	1220.2	1318.1	1430.2	1524.5	1537.3	1521.7	1435.9	1323.8	1153.5	978.3
70°	1091.8	1103.9	1184.7	1294.7	1389.8	1400.4	1386.9	1306.8	1201.1	1047.8	885.4
72.5°	957.7	970.5	1039.3	1140.8	1225.2	1242.2	1233.0	1150.0	1054.2	921.5	781.8
75°	806.6	820.8	882.5	963.4	1045.7	1055.6	1045.0	984.0	897.4	777.5	655.5
77.5°	654.1	663.3	708.0	769.0	832.9	854.1	851.3	808.0	720.8	625.7	526.4
80°	489.5	490.9	514.3	564.7	615.8	631.4	634.9	595.9	538.5	466.8	394.4
82.5°	309.3	314.3	327.0	364.6	389.5	410.8	415.7	393.0	356.8	312.1	267.5
85°	144.0	139.8	149.7	162.5	197.9	197.9	204.3	192.3	181.6	166.7	138.3
87.5°	12.1	11.4	11.4	12.1	19.2	20.6	32.6	36.2	39.0	39.0	41.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P472287
 CATALOG NUMBER: CCW-VA-3-827-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0
2.5°	535.6	534.9	532.8	532.8	534.2	536.3	537.0	537.7	538.5	539.2	539.2
5°	544.1	543.4	542.0	540.6	542.0	542.7	544.8	546.3	546.3	547.7	547.0
7.5°	551.9	552.6	551.2	550.5	550.5	551.9	554.8	556.9	558.3	559.0	560.4
10°	569.7	565.4	559.7	556.9	556.9	559.7	562.6	565.4	568.2	569.7	569.7
12.5°	585.3	580.3	569.7	565.4	564.7	567.5	571.1	575.3	577.5	579.6	579.6
15°	599.5	595.2	582.4	572.5	569.7	571.8	576.1	581.0	584.6	586.7	586.7
17.5°	626.4	613.7	596.6	580.3	574.6	575.3	580.3	585.3	589.5	590.9	590.2
20°	652.0	635.6	610.1	586.7	577.5	574.6	579.6	586.0	589.5	591.7	591.7
22.5°	681.0	663.3	623.6	593.1	576.1	571.8	576.1	581.7	586.0	587.4	588.8
25°	722.2	691.0	638.5	598.0	573.9	565.4	568.2	573.9	578.9	579.6	578.9
27.5°	759.1	723.6	658.3	603.0	569.0	553.3	550.5	554.8	562.6	567.5	569.0
30°	791.0	758.4	678.9	607.3	559.7	533.5	529.9	531.4	536.3	549.8	550.5
32.5°	838.5	788.2	699.5	610.8	549.1	522.8	517.9	516.5	517.9	525.0	525.0
35°	871.2	821.5	720.1	617.2	541.3	514.3	509.4	507.2	505.8	498.7	496.6
37.5°	913.7	858.4	739.9	622.9	537.7	510.8	503.7	505.1	498.0	478.2	472.5
40°	960.6	891.7	759.8	628.5	539.2	511.5	505.1	504.4	492.3	464.7	459.0
42.5°	983.3	920.1	780.4	636.4	544.8	513.6	507.9	505.8	490.9	459.7	451.9
45°	1005.3	940.7	795.3	642.7	550.5	516.5	509.4	507.2	490.2	455.4	449.8
47.5°	1025.1	953.5	802.4	646.3	554.8	518.6	510.1	506.5	486.7	453.3	447.6
50°	1034.3	960.6	802.4	646.3	556.2	520.7	508.7	503.7	481.0	449.8	444.8
52.5°	1048.5	964.8	796.0	642.0	554.1	520.7	505.8	498.0	473.9	444.8	440.6
55°	1069.8	972.6	787.5	635.6	549.1	516.5	500.9	490.2	464.0	437.7	434.2
57°	1076.9	975.5	781.8	627.8	543.4	510.8	495.2	481.7	454.7	430.6	427.1
57.5°	1075.5	974.0	779.7	625.7	541.3	508.7	493.8	479.6	452.6	429.2	425.7
60°	1056.3	960.6	766.2	612.2	529.9	497.3	481.0	465.4	437.7	417.1	414.3
62.5°	1025.1	930.1	742.1	594.5	514.3	481.7	464.7	446.9	419.3	401.5	400.1
65°	971.9	879.0	707.3	569.0	494.5	461.1	442.7	423.5	399.4	383.8	379.5
67.5°	883.2	810.9	658.3	533.5	464.0	435.6	415.7	395.9	373.9	360.4	357.5
70°	809.5	736.4	595.9	488.8	427.1	400.1	381.7	362.5	343.4	331.3	330.6
72.5°	715.8	645.6	517.9	433.5	380.3	354.0	339.8	322.8	307.9	297.2	297.2
75°	602.3	547.0	437.0	367.5	324.2	305.1	293.0	279.5	266.7	259.6	261.1
77.5°	478.9	437.0	356.8	297.2	265.3	252.6	241.2	233.4	225.6	219.2	219.9
80°	353.3	322.1	262.5	218.5	202.9	191.5	189.4	184.4	180.2	178.1	174.5
82.5°	241.9	214.2	174.5	149.7	138.3	134.8	135.5	135.5	136.2	136.2	134.8
85°	125.6	114.9	88.7	80.2	78.7	82.3	86.5	89.4	88.7	88.7	86.5
87.5°	36.2	32.6	28.4	25.5	27.0	29.1	25.5	24.8	24.1	23.4	23.4
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)