

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: P472266

Luminaire Tested: **CCW-VA-2-730-U-T4FT**

Issue Date: 01/27/2021

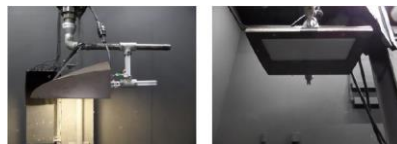
Test Information

Test Method: LM-79-08
Report Number: P472266
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-2-730-U-T4FT
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS
Light Source: 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4368 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

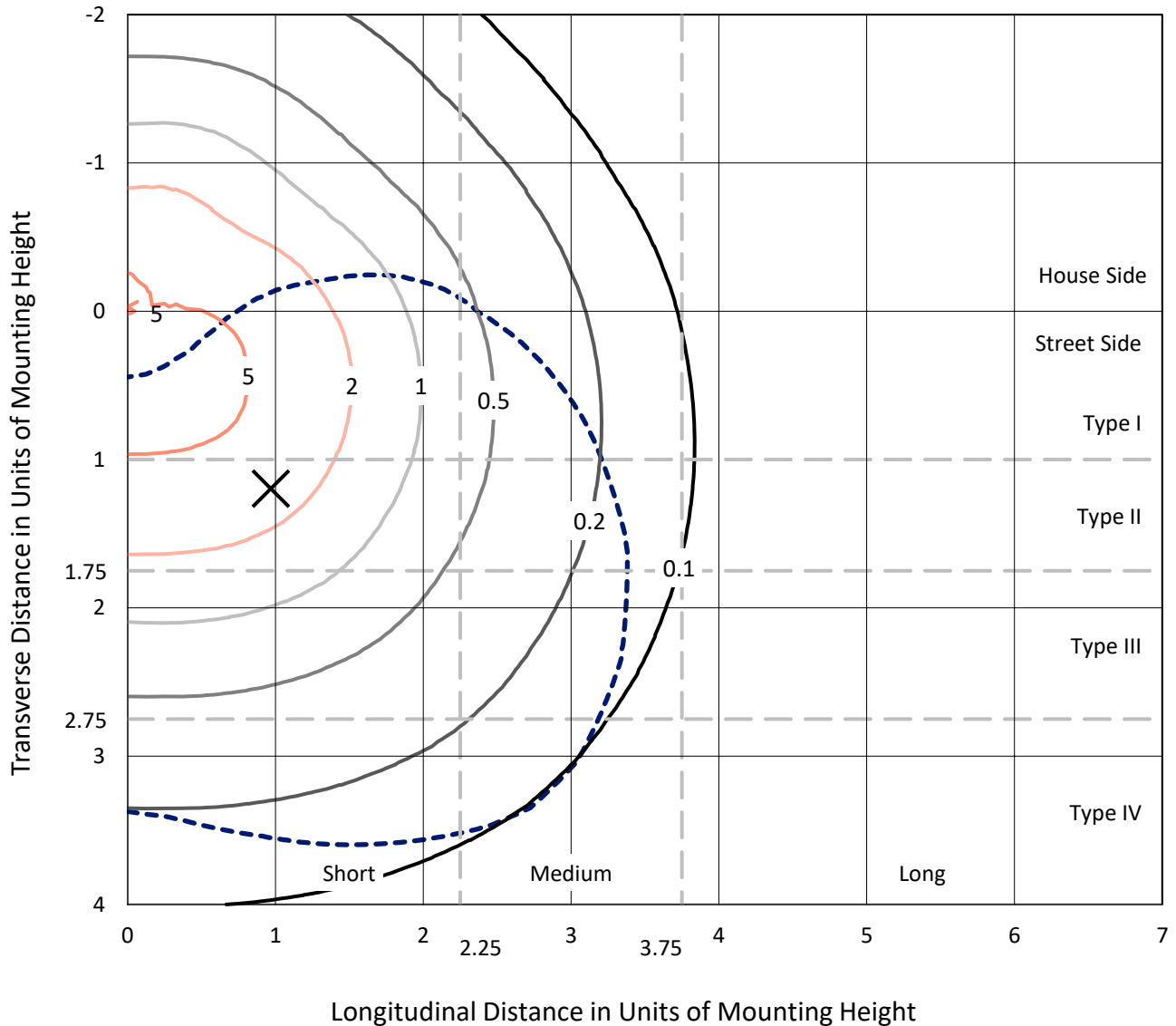
Input Watts (W): 40.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

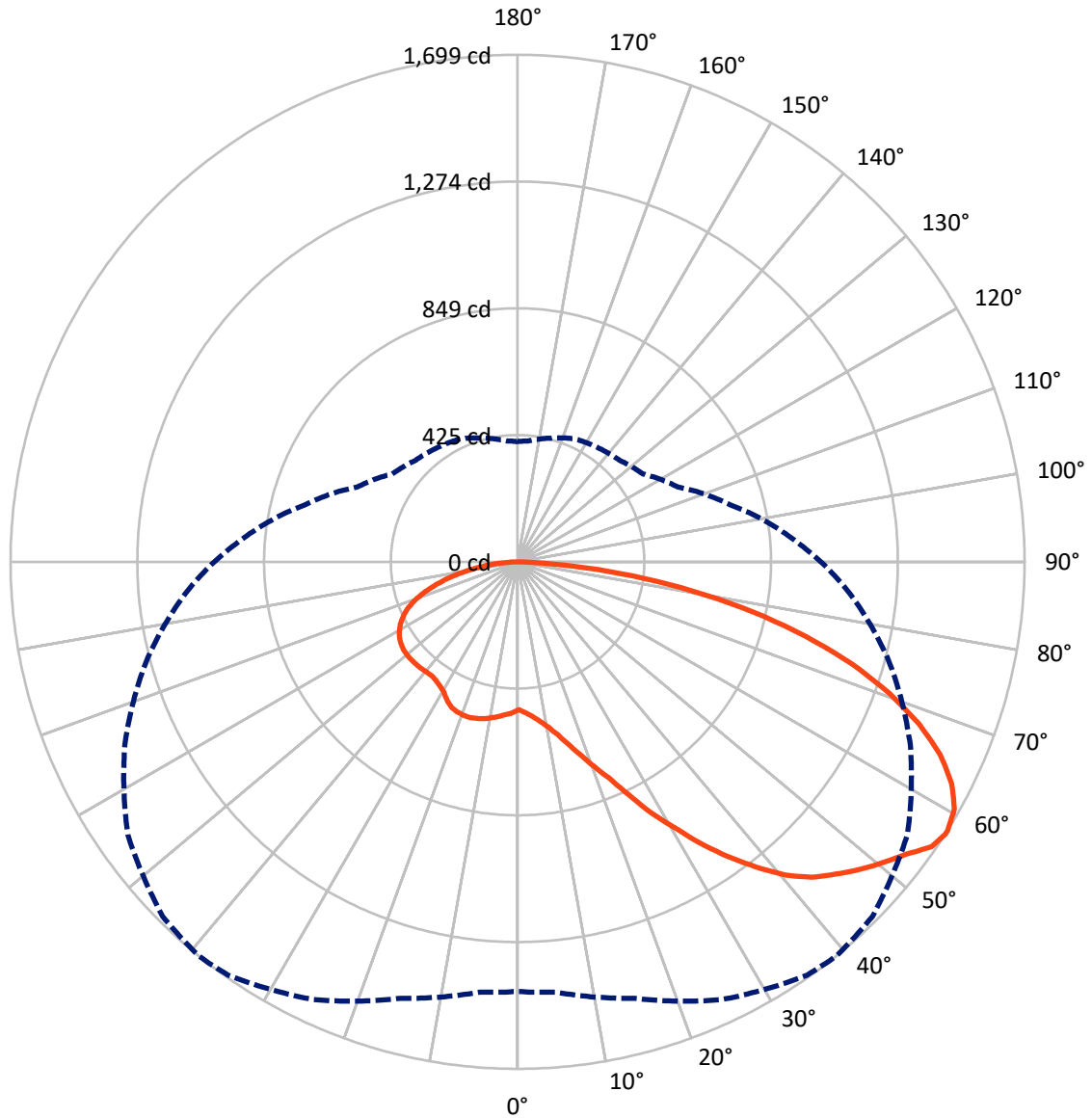
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 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	1340.2	0.0	1340.2
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	3027.7	0.0	3027.7
	% Fixture	69.3	0.0	69.3
Total	Lumens	4368.0	0.0	4368.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	1.1
10°-20°	167.3	3.8
20°-30°	323.1	7.4
30°-40°	522.6	12.0
40°-50°	734.2	16.8
50°-60°	907.0	20.8
60°-70°	901.5	20.6
70°-80°	610.0	14.0
80°-90°	152.2	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°	4368.0	100.0
0°-180°	4368.0	100.0

Coefficient of Utilization



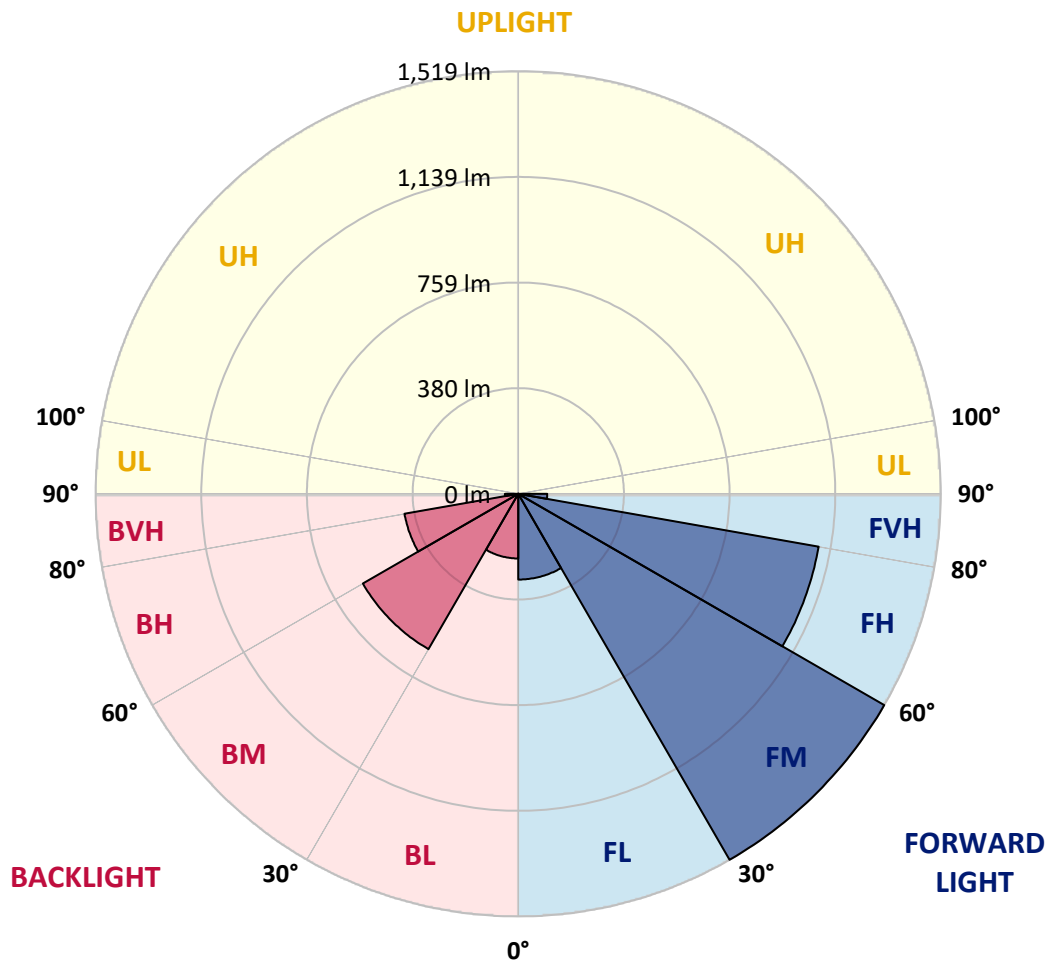
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	308.2	7.1			
FM (30°-60°)	1519.0	34.8			
FH (60°-80°)	1096.4	25.1			G1/1800
FVH (80°-90°)	104.2	2.4			G2/225
BL (0°-30°)	232.3	5.3	B1/500		
BM (30°-60°)	644.8	14.8	B1/1000		
BH (60°-80°)	415.1	9.5	B1/500		G1/500
BVH (80°-90°)	48.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3
2.5°	510.0	509.4	508.7	508.7	507.4	506.0	505.3	504.0	504.7	506.0	506.7
5°	524.8	523.4	523.4	522.1	520.1	520.1	518.1	515.4	514.7	514.0	514.0
7.5°	547.5	545.5	546.2	544.2	542.2	539.5	536.1	532.8	531.4	526.8	522.7
10°	573.6	572.9	570.9	567.6	565.6	562.9	559.6	553.5	548.9	543.5	540.1
12.5°	604.4	603.1	603.7	601.1	597.7	593.0	587.7	581.6	572.9	562.9	556.2
15°	644.6	641.9	641.9	641.2	634.5	633.2	627.8	614.4	602.4	589.0	573.6
17.5°	693.4	692.8	690.1	687.4	683.4	678.7	673.3	658.6	640.5	619.8	599.1
20°	745.6	744.3	746.3	742.3	734.3	732.2	723.5	706.8	684.7	660.6	629.2
22.5°	802.5	803.9	803.9	802.5	795.8	787.8	780.4	758.4	732.9	703.5	666.7
25°	871.5	872.1	876.2	880.2	876.2	863.4	853.4	819.3	785.1	747.6	704.1
27.5°	949.1	944.4	955.8	963.2	955.8	952.5	930.4	892.9	846.0	799.2	745.0
30°	1024.1	1024.1	1033.4	1044.2	1039.5	1031.4	1013.4	965.2	911.6	852.1	786.5
32.5°	1093.7	1101.7	1105.7	1130.5	1127.8	1123.8	1103.1	1039.5	972.5	904.9	826.6
35°	1176.0	1173.3	1190.1	1205.5	1217.5	1212.2	1196.8	1132.5	1044.8	960.5	870.8
37.5°	1238.3	1243.6	1258.3	1285.8	1294.5	1297.2	1277.8	1211.5	1111.8	1020.1	919.7
40°	1285.8	1289.8	1317.9	1352.7	1370.8	1380.2	1360.7	1280.4	1174.7	1067.6	957.8
42.5°	1323.9	1326.6	1356.1	1405.6	1435.7	1445.1	1427.7	1342.7	1228.2	1105.7	989.3
45°	1349.4	1354.1	1388.9	1439.7	1486.6	1493.3	1484.6	1397.6	1275.7	1141.9	1012.0
47.5°	1371.5	1376.8	1415.6	1479.9	1532.1	1540.8	1532.8	1445.8	1321.3	1174.7	1031.4
50°	1400.9	1406.9	1445.8	1517.4	1574.9	1585.0	1582.3	1496.6	1364.1	1211.5	1051.5
52.5°	1429.0	1433.7	1479.9	1559.5	1621.8	1628.5	1626.5	1544.1	1407.6	1251.0	1077.0
55°	1451.1	1456.5	1511.3	1609.7	1676.7	1684.0	1670.0	1581.0	1441.7	1279.8	1101.0
57°	1439.7	1447.1	1514.0	1618.4	1690.7	1698.8	1680.7	1594.3	1451.8	1287.8	1109.7
57.5°	1436.4	1441.7	1511.3	1617.8	1691.4	1698.8	1680.7	1593.7	1451.1	1287.1	1109.7
60°	1387.5	1400.2	1478.6	1593.7	1672.0	1681.4	1664.0	1566.9	1434.4	1268.4	1091.7
62.5°	1321.9	1339.3	1421.7	1536.8	1625.1	1631.8	1614.4	1522.1	1396.9	1228.9	1054.2
65°	1227.6	1254.3	1340.7	1451.8	1547.5	1555.5	1538.1	1447.1	1334.6	1168.7	998.0
67.5°	1135.2	1151.2	1243.6	1349.4	1438.4	1450.4	1435.7	1354.7	1249.0	1088.3	923.0
70°	1030.1	1041.5	1117.8	1221.5	1311.2	1321.3	1308.5	1232.9	1133.2	988.6	835.3
72.5°	903.6	915.6	980.6	1076.3	1155.9	1172.0	1163.3	1085.0	994.6	869.5	737.6
75°	761.0	774.4	832.6	909.0	986.6	996.0	985.9	928.4	846.7	733.6	618.5
77.5°	617.1	625.8	668.0	725.6	785.8	805.9	803.2	762.4	680.0	590.3	496.6
80°	461.8	463.2	485.3	532.8	581.0	595.7	599.1	562.2	508.0	440.4	372.1
82.5°	291.8	296.5	308.6	344.0	367.5	387.5	392.2	370.8	336.7	294.5	252.3
85°	135.9	131.9	141.2	153.3	186.7	186.7	192.8	181.4	171.3	157.3	130.5
87.5°	11.4	10.7	10.7	11.4	18.1	19.4	30.8	34.1	36.8	36.8	38.8
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°	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3
2.5°	505.3	504.7	502.7	502.7	504.0	506.0	506.7	507.4	508.0	508.7	508.7
5°	513.4	512.7	511.4	510.0	511.4	512.0	514.0	515.4	515.4	516.7	516.1
7.5°	520.7	521.4	520.1	519.4	519.4	520.7	523.4	525.4	526.8	527.4	528.8
10°	537.5	533.5	528.1	525.4	525.4	528.1	530.8	533.5	536.1	537.5	537.5
12.5°	552.2	547.5	537.5	533.5	532.8	535.5	538.8	542.8	544.8	546.8	546.8
15°	565.6	561.6	549.5	540.1	537.5	539.5	543.5	548.2	551.5	553.5	553.5
17.5°	591.0	579.0	562.9	547.5	542.2	542.8	547.5	552.2	556.2	557.6	556.9
20°	615.1	599.7	575.6	553.5	544.8	542.2	546.8	552.9	556.2	558.2	558.2
22.5°	642.6	625.8	588.3	559.6	543.5	539.5	543.5	548.9	552.9	554.2	555.5
25°	681.4	651.9	602.4	564.2	541.5	533.5	536.1	541.5	546.2	546.8	546.2
27.5°	716.2	682.7	621.1	568.9	536.8	522.1	519.4	523.4	530.8	535.5	536.8
30°	746.3	715.5	640.5	572.9	528.1	503.3	500.0	501.3	506.0	518.7	519.4
32.5°	791.1	743.6	660.0	576.3	518.1	493.3	488.6	487.3	488.6	495.3	495.3
35°	821.9	775.1	679.4	582.3	510.7	485.3	480.6	478.6	477.2	470.5	468.5
37.5°	862.1	809.9	698.1	587.7	507.4	481.9	475.2	476.6	469.9	451.1	445.8
40°	906.3	841.3	716.9	593.0	508.7	482.6	476.6	475.9	464.5	438.4	433.1
42.5°	927.7	868.1	736.3	600.4	514.0	484.6	479.2	477.2	463.2	433.7	426.4
45°	948.4	887.5	750.3	606.4	519.4	487.3	480.6	478.6	462.5	429.7	424.4
47.5°	967.2	899.6	757.0	609.8	523.4	489.3	481.2	477.9	459.2	427.7	422.3
50°	975.9	906.3	757.0	609.8	524.8	491.3	479.9	475.2	453.8	424.4	419.7
52.5°	989.3	910.3	751.0	605.7	522.7	491.3	477.2	469.9	447.1	419.7	415.7
55°	1009.3	917.7	743.0	599.7	518.1	487.3	472.5	462.5	437.7	413.0	409.6
57°	1016.0	920.3	737.6	592.4	512.7	481.9	467.2	454.5	429.0	406.3	402.9
57.5°	1014.7	919.0	735.6	590.3	510.7	479.9	465.9	452.5	427.0	404.9	401.6
60°	996.6	906.3	722.9	577.6	500.0	469.2	453.8	439.1	413.0	393.6	390.9
62.5°	967.2	877.5	700.1	560.9	485.3	454.5	438.4	421.7	395.6	378.8	377.5
65°	917.0	829.3	667.3	536.8	466.5	435.1	417.7	399.6	376.8	362.1	358.1
67.5°	833.3	765.0	621.1	503.3	437.7	411.0	392.2	373.5	352.7	340.0	337.3
70°	763.7	694.8	562.2	461.2	402.9	377.5	360.1	342.0	324.0	312.6	311.9
72.5°	675.4	609.1	488.6	409.0	358.8	334.0	320.6	304.5	290.5	280.4	280.4
75°	568.3	516.1	412.3	346.7	305.9	287.8	276.4	263.7	251.7	245.0	246.3
77.5°	451.8	412.3	336.7	280.4	250.3	238.3	227.6	220.2	212.8	206.8	207.5
80°	333.3	303.9	247.7	206.2	191.4	180.7	178.7	174.0	170.0	168.0	164.7
82.5°	228.2	202.1	164.7	141.2	130.5	127.2	127.8	127.8	128.5	128.5	127.2
85°	118.5	108.4	83.7	75.6	74.3	77.6	81.7	84.3	83.7	83.7	81.7
87.5°	34.1	30.8	26.8	24.1	25.4	27.4	24.1	23.4	22.8	22.1	22.1
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)