

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: P472298

Luminaire Tested: **CCW-VA-2-840-U-T4FT**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472298
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-2-840-U-T4FT
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4308.9 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

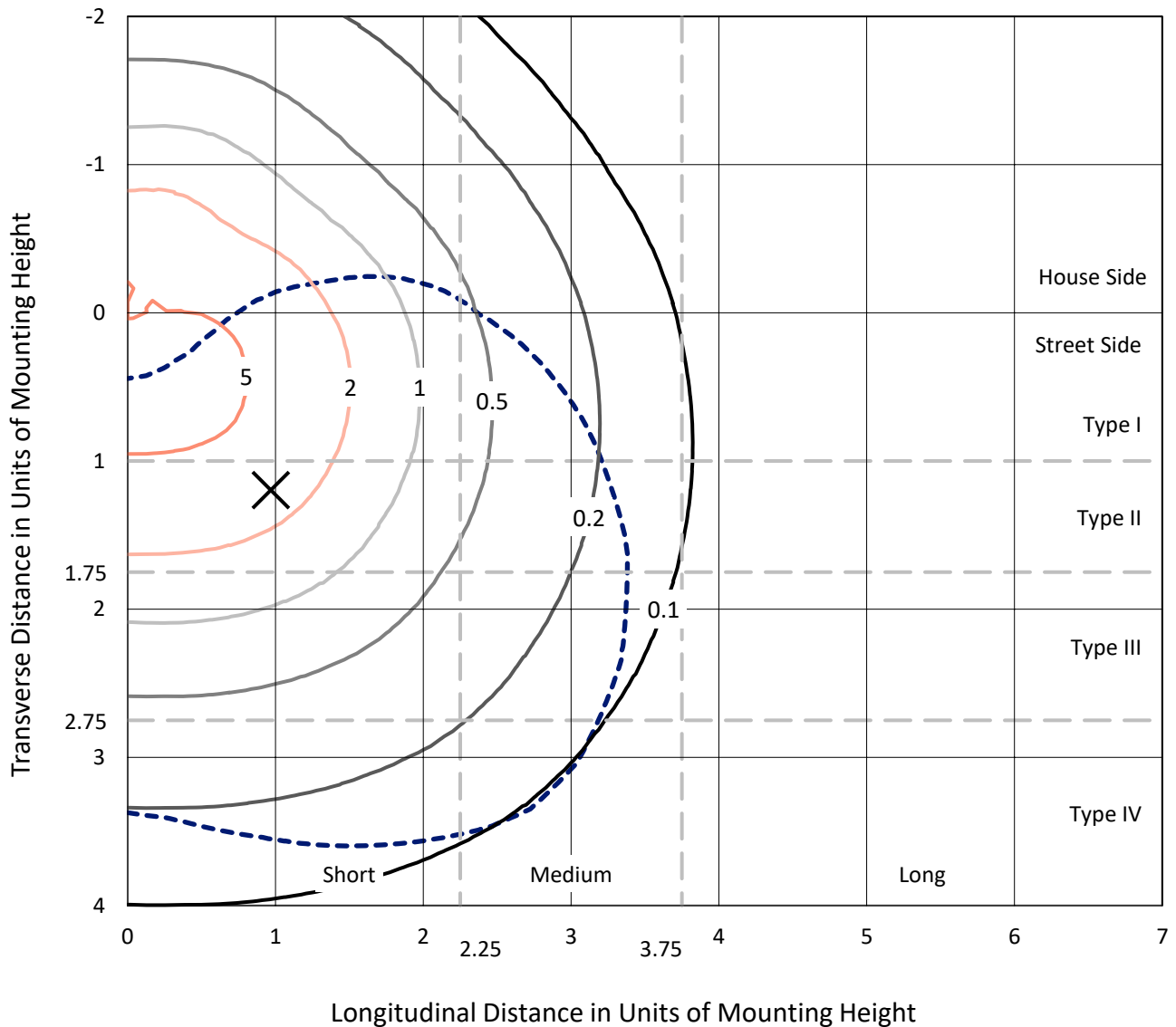
Input Watts (W): 40.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

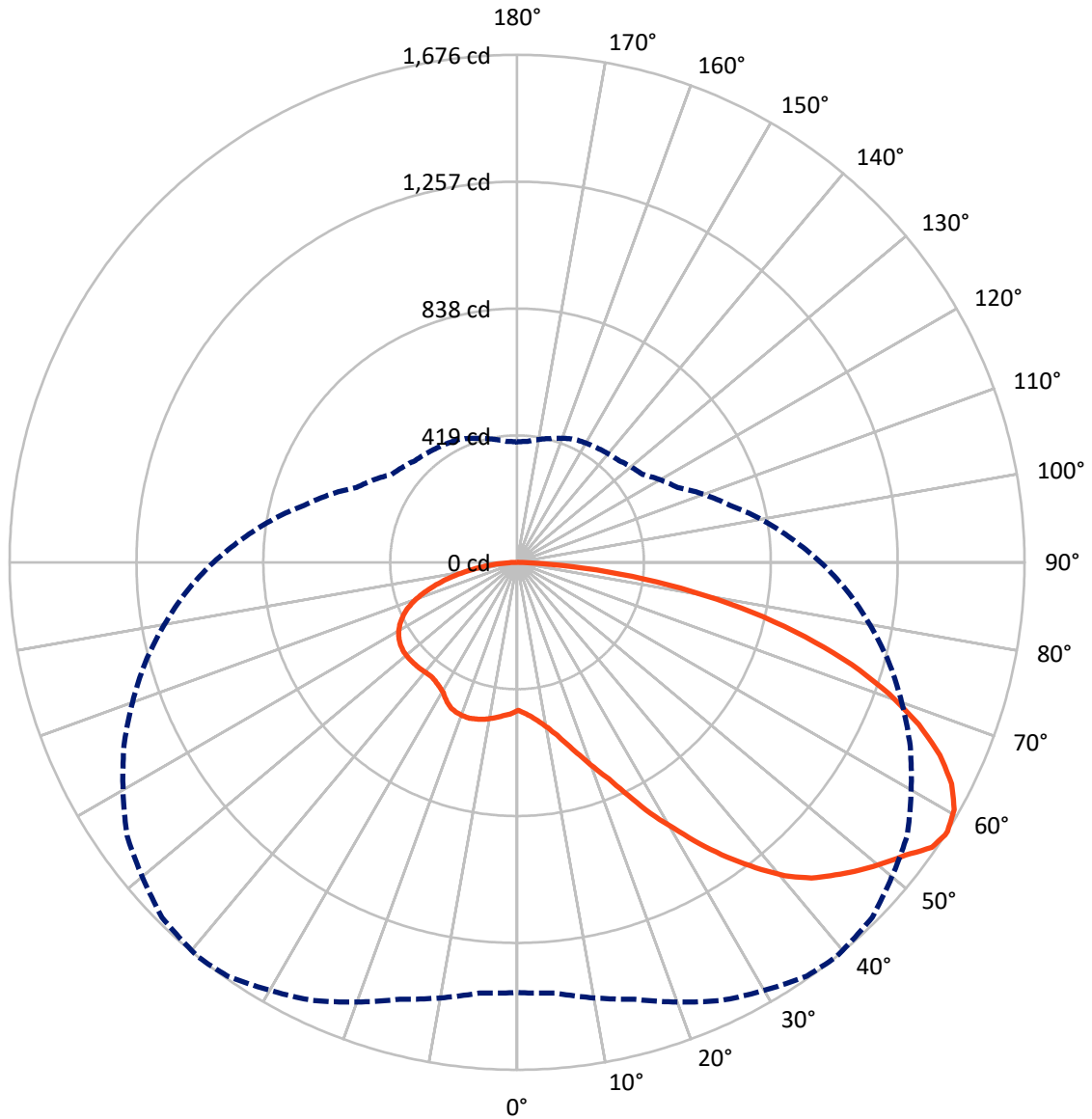
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 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	1322.1	0.0	1322.1
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	2986.8	0.0	2986.8
	% Fixture	69.3	0.0	69.3
Total	Lumens	4308.9	0.0	4308.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	1.1
10°-20°	165.0	3.8
20°-30°	318.7	7.4
30°-40°	515.5	12.0
40°-50°	724.3	16.8
50°-60°	894.7	20.8
60°-70°	889.3	20.6
70°-80°	601.7	14.0
80°-90°	150.2	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°	4308.9	100.0
0°-180°	4308.9	100.0

Coefficient of Utilization

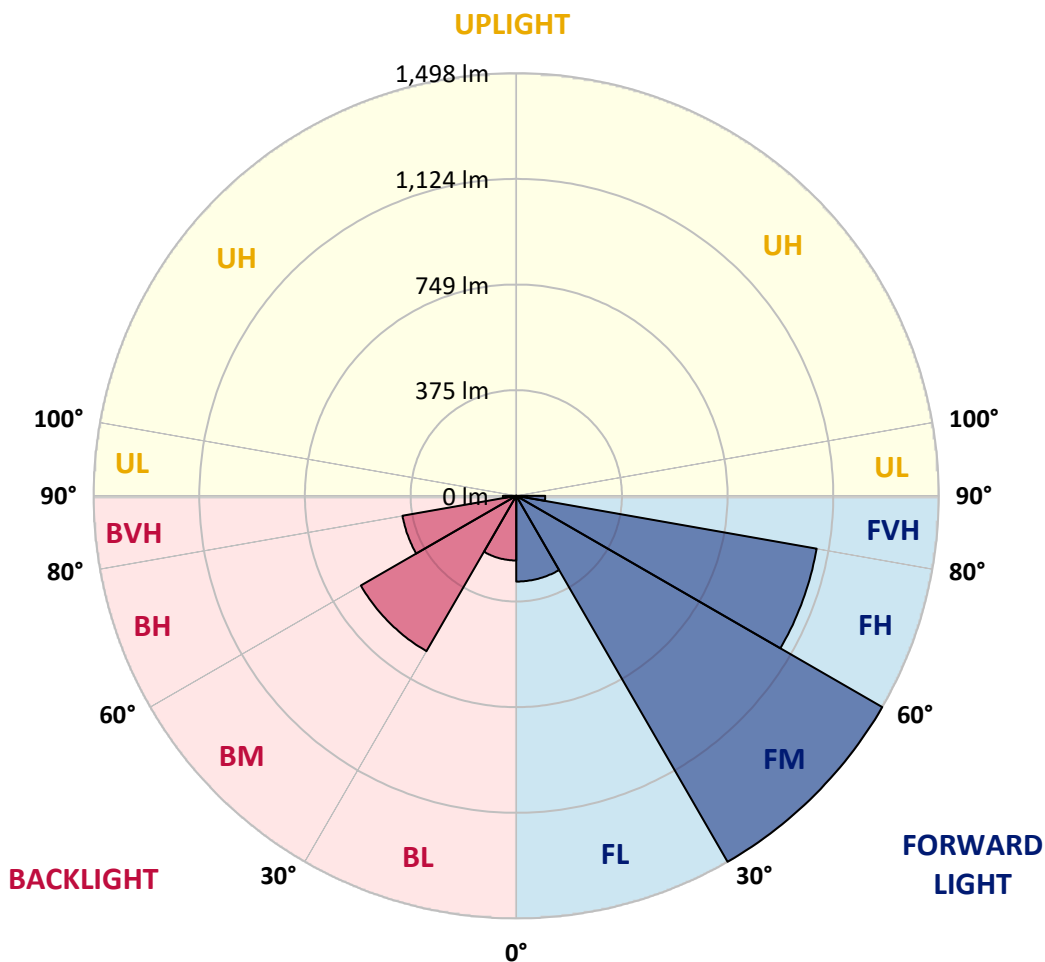


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	304.0	7.1			
FM (30°-60°)	1498.4	34.8			
FH (60°-80°)	1081.6	25.1			G1/1800
FVH (80°-90°)	102.8	2.4			G2/225
BL (0°-30°)	229.1	5.3	B1/500		
BM (30°-60°)	636.1	14.8	B1/1000		
BH (60°-80°)	409.4	9.5	B1/500		G1/500
BVH (80°-90°)	47.4	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°	488.6	488.6	488.6	488.6	488.6	488.6	488.6	488.6	488.6	488.6	488.6
2.5°	503.1	502.5	501.8	501.8	500.5	499.2	498.5	497.2	497.9	499.2	499.8
5°	517.7	516.3	516.3	515.0	513.0	513.0	511.1	508.4	507.8	507.1	507.1
7.5°	540.1	538.1	538.8	536.8	534.8	532.2	528.9	525.6	524.3	519.6	515.7
10°	565.9	565.2	563.2	559.9	557.9	555.3	552.0	546.1	541.4	536.2	532.9
12.5°	596.2	594.9	595.6	592.9	589.6	585.0	579.7	573.8	565.2	555.3	548.7
15°	635.9	633.2	633.2	632.6	626.0	624.6	619.3	606.1	594.3	581.1	565.9
17.5°	684.1	683.4	680.8	678.1	674.2	669.5	664.2	649.7	631.9	611.4	591.0
20°	735.6	734.2	736.2	732.3	724.3	722.4	713.8	697.3	675.5	651.7	620.7
22.5°	791.7	793.0	793.0	791.7	785.1	777.2	769.9	748.1	723.0	694.0	657.6
25°	859.7	860.4	864.3	868.3	864.3	851.8	841.9	808.2	774.5	737.5	694.6
27.5°	936.3	931.7	942.9	950.2	942.9	939.6	917.8	880.8	834.6	788.4	734.9
30°	1010.2	1010.2	1019.5	1030.0	1025.4	1017.5	999.7	952.1	899.3	840.5	775.8
32.5°	1078.9	1086.8	1090.8	1115.2	1112.6	1108.6	1088.2	1025.4	959.4	892.7	815.5
35°	1160.1	1157.5	1174.0	1189.2	1201.1	1195.8	1180.6	1117.2	1030.7	947.5	859.0
37.5°	1221.5	1226.8	1241.3	1268.4	1277.0	1279.6	1260.5	1195.1	1096.7	1006.3	907.2
40°	1268.4	1272.4	1300.1	1334.4	1352.3	1361.5	1342.4	1263.1	1158.8	1053.2	944.9
42.5°	1306.0	1308.7	1337.7	1386.6	1416.3	1425.6	1408.4	1324.5	1211.6	1090.8	975.9
45°	1331.1	1335.8	1370.1	1420.3	1466.5	1473.1	1464.5	1378.7	1258.5	1126.4	998.4
47.5°	1352.9	1358.2	1396.5	1459.9	1511.4	1520.0	1512.1	1426.2	1303.4	1158.8	1017.5
50°	1382.0	1387.9	1426.2	1496.9	1553.7	1563.6	1560.9	1476.4	1345.7	1195.1	1037.3
52.5°	1409.7	1414.3	1459.9	1538.5	1599.9	1606.5	1604.5	1523.3	1388.6	1234.1	1062.4
55°	1431.5	1436.8	1490.9	1588.0	1654.0	1661.3	1647.4	1559.6	1422.3	1262.5	1086.2
57°	1420.3	1427.5	1493.6	1596.6	1667.9	1675.8	1658.0	1572.8	1432.2	1270.4	1094.8
57.5°	1417.0	1422.3	1490.9	1595.9	1668.5	1675.8	1658.0	1572.1	1431.5	1269.7	1094.8
60°	1368.8	1381.3	1458.6	1572.1	1649.4	1658.6	1641.5	1545.7	1415.0	1251.2	1076.9
62.5°	1304.1	1321.2	1402.4	1516.0	1603.2	1609.8	1592.6	1501.5	1378.0	1212.3	1040.0
65°	1211.0	1237.4	1322.6	1432.2	1526.6	1534.5	1517.3	1427.5	1316.6	1152.9	984.5
67.5°	1119.8	1135.7	1226.8	1331.1	1419.0	1430.8	1416.3	1336.4	1232.1	1073.6	910.5
70°	1016.2	1027.4	1102.7	1205.0	1293.5	1303.4	1290.9	1216.2	1117.9	975.2	824.0
72.5°	891.4	903.3	967.3	1061.7	1140.3	1156.2	1147.6	1070.3	981.2	857.7	727.6
75°	750.7	764.0	821.4	896.7	973.3	982.5	972.6	915.8	835.3	723.7	610.1
77.5°	608.8	617.4	659.0	715.8	775.2	795.0	792.3	752.1	670.9	582.4	489.9
80°	455.6	456.9	478.7	525.6	573.1	587.7	591.0	554.6	501.2	434.5	367.1
82.5°	287.9	292.5	304.4	339.4	362.5	382.3	386.9	365.8	332.1	290.5	248.9
85°	134.0	130.1	139.3	151.2	184.2	184.2	190.2	178.9	169.0	155.2	128.8
87.5°	11.2	10.6	10.6	11.2	17.8	19.1	30.4	33.7	36.3	36.3	38.3
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°	488.6	488.6	488.6	488.6	488.6	488.6	488.6	488.6	488.6	488.6	488.6
2.5°	498.5	497.9	495.9	495.9	497.2	499.2	499.8	500.5	501.2	501.8	501.8
5°	506.4	505.8	504.5	503.1	504.5	505.1	507.1	508.4	508.4	509.7	509.1
7.5°	513.7	514.4	513.0	512.4	512.4	513.7	516.3	518.3	519.6	520.3	521.6
10°	530.2	526.2	521.0	518.3	518.3	521.0	523.6	526.2	528.9	530.2	530.2
12.5°	544.7	540.1	530.2	526.2	525.6	528.2	531.5	535.5	537.5	539.5	539.5
15°	557.9	554.0	542.1	532.9	530.2	532.2	536.2	540.8	544.1	546.1	546.1
17.5°	583.0	571.1	555.3	540.1	534.8	535.5	540.1	544.7	548.7	550.0	549.4
20°	606.8	591.6	567.8	546.1	537.5	534.8	539.5	545.4	548.7	550.7	550.7
22.5°	633.9	617.4	580.4	552.0	536.2	532.2	536.2	541.4	545.4	546.7	548.0
25°	672.2	643.1	594.3	556.6	534.2	526.2	528.9	534.2	538.8	539.5	538.8
27.5°	706.5	673.5	612.7	561.2	529.6	515.0	512.4	516.3	523.6	528.2	529.6
30°	736.2	705.8	631.9	565.2	521.0	496.5	493.2	494.6	499.2	511.7	512.4
32.5°	780.5	733.6	651.0	568.5	511.1	486.6	482.0	480.7	482.0	488.6	488.6
35°	810.8	764.6	670.2	574.4	503.8	478.7	474.1	472.1	470.8	464.2	462.2
37.5°	850.4	798.9	688.7	579.7	500.5	475.4	468.8	470.1	463.5	445.0	439.8
40°	894.0	830.0	707.2	585.0	501.8	476.1	470.1	469.5	458.2	432.5	427.2
42.5°	915.2	856.4	726.3	592.3	507.1	478.0	472.8	470.8	456.9	427.9	420.6
45°	935.6	875.5	740.2	598.2	512.4	480.7	474.1	472.1	456.3	423.9	418.6
47.5°	954.1	887.4	746.8	601.5	516.3	482.7	474.7	471.4	453.0	421.9	416.6
50°	962.7	894.0	746.8	601.5	517.7	484.7	473.4	468.8	447.7	418.6	414.0
52.5°	975.9	898.0	740.8	597.6	515.7	484.7	470.8	463.5	441.1	414.0	410.0
55°	995.7	905.3	732.9	591.6	511.1	480.7	466.2	456.3	431.8	407.4	404.1
57°	1002.3	907.9	727.6	584.4	505.8	475.4	460.9	448.3	423.2	400.8	397.5
57.5°	1001.0	906.6	725.7	582.4	503.8	473.4	459.6	446.4	421.3	399.5	396.2
60°	983.2	894.0	713.1	569.8	493.2	462.9	447.7	433.1	407.4	388.2	385.6
62.5°	954.1	865.6	690.7	553.3	478.7	448.3	432.5	416.0	390.2	373.7	372.4
65°	904.6	818.1	658.3	529.6	460.2	429.2	412.0	394.2	371.7	357.2	353.3
67.5°	822.1	754.7	612.7	496.5	431.8	405.4	386.9	368.4	348.0	335.4	332.8
70°	753.4	685.4	554.6	454.9	397.5	372.4	355.2	337.4	319.6	308.4	307.7
72.5°	666.2	600.9	482.0	403.4	353.9	329.5	316.3	300.4	286.6	276.7	276.7
75°	560.6	509.1	406.7	342.0	301.8	283.9	272.7	260.2	248.3	241.7	243.0
77.5°	445.7	406.7	332.1	276.7	246.9	235.1	224.5	217.2	210.0	204.0	204.7
80°	328.8	299.8	244.3	203.4	188.8	178.3	176.3	171.7	167.7	165.7	162.4
82.5°	225.2	199.4	162.4	139.3	128.8	125.5	126.1	126.1	126.8	126.8	125.5
85°	116.9	107.0	82.5	74.6	73.3	76.6	80.6	83.2	82.5	82.5	80.6
87.5°	33.7	30.4	26.4	23.8	25.1	27.1	23.8	23.1	22.4	21.8	21.8
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)