

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: P675190

Luminaire Tested: **CCW-SA-1C-840-U-T4FT**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675190  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-840-U-T4FT  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/  
T4FT distribution lens  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

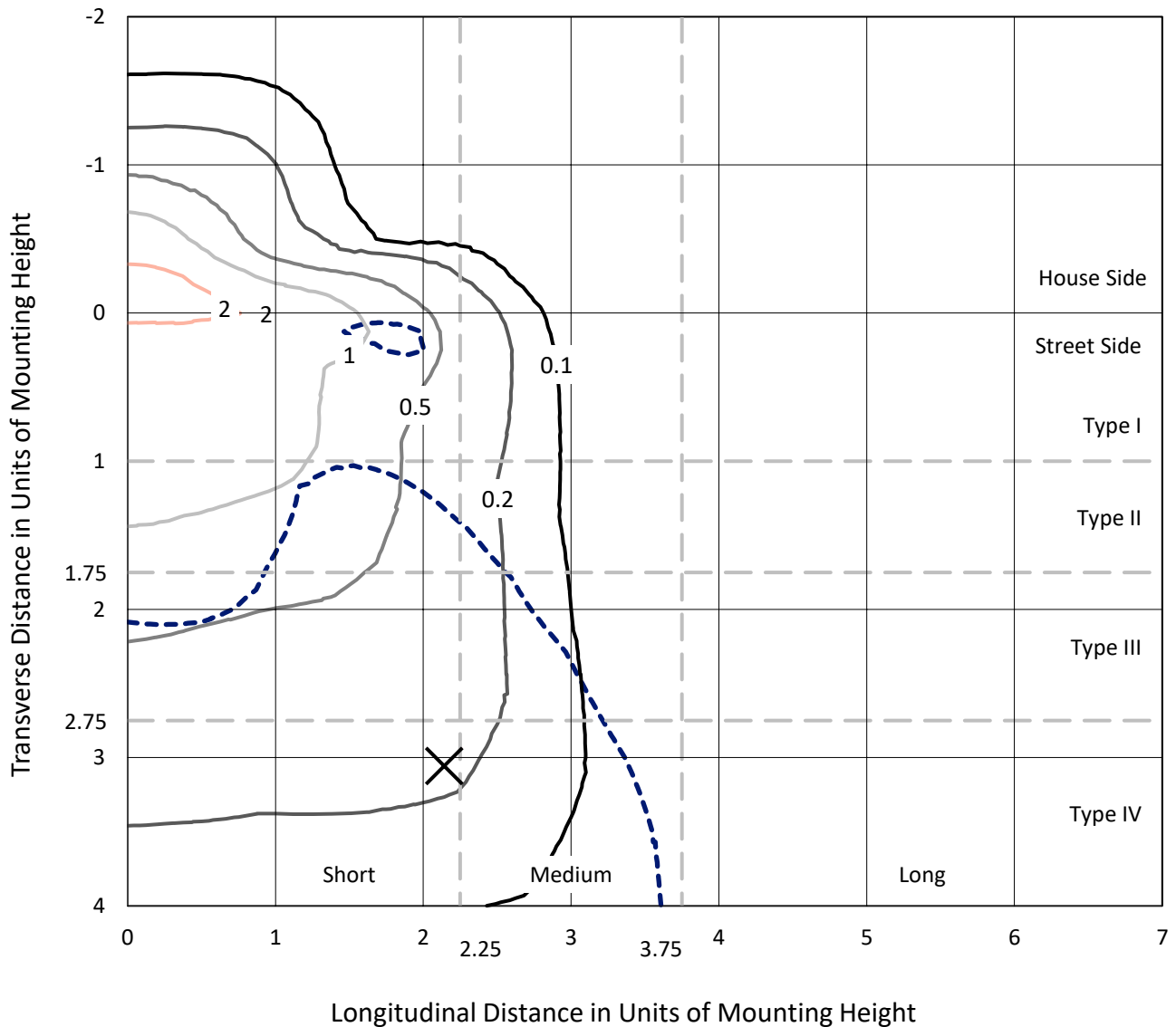
Lumens per Lamp: N/A  
Luminaire Lumens: 3852.4 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 32  
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: 25 FT

REPORT NUMBER: P675190  
 CATALOG NUMBER: CCW-SA-1C-840-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

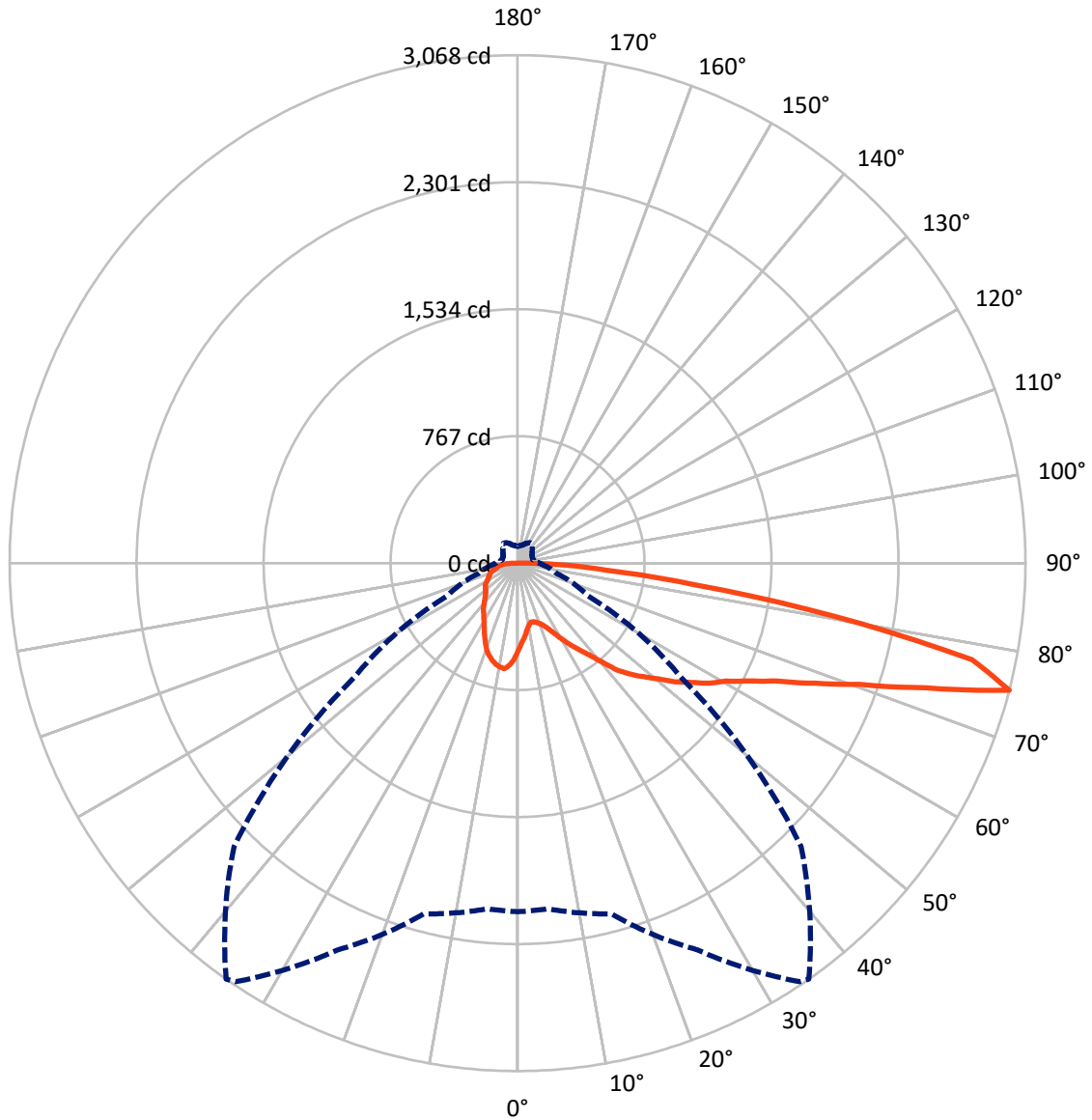
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P675190  
CATALOG NUMBER: CCW-SA-1C-840-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P675190  
 CATALOG NUMBER: CCW-SA-1C-840-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	885.4	0.0	885.4
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	2967.0	0.0	2967.0
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	3852.4	0.0	3852.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.3	1.3
10°-20°	146.0	3.8
20°-30°	242.2	6.3
30°-40°	359.0	9.3
40°-50°	517.7	13.4
50°-60°	711.9	18.5
60°-70°	879.3	22.8
70°-80°	804.5	20.9
80°-90°	141.6	3.7
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°	3852.4	100.0
0°-180°	3852.4	100.0



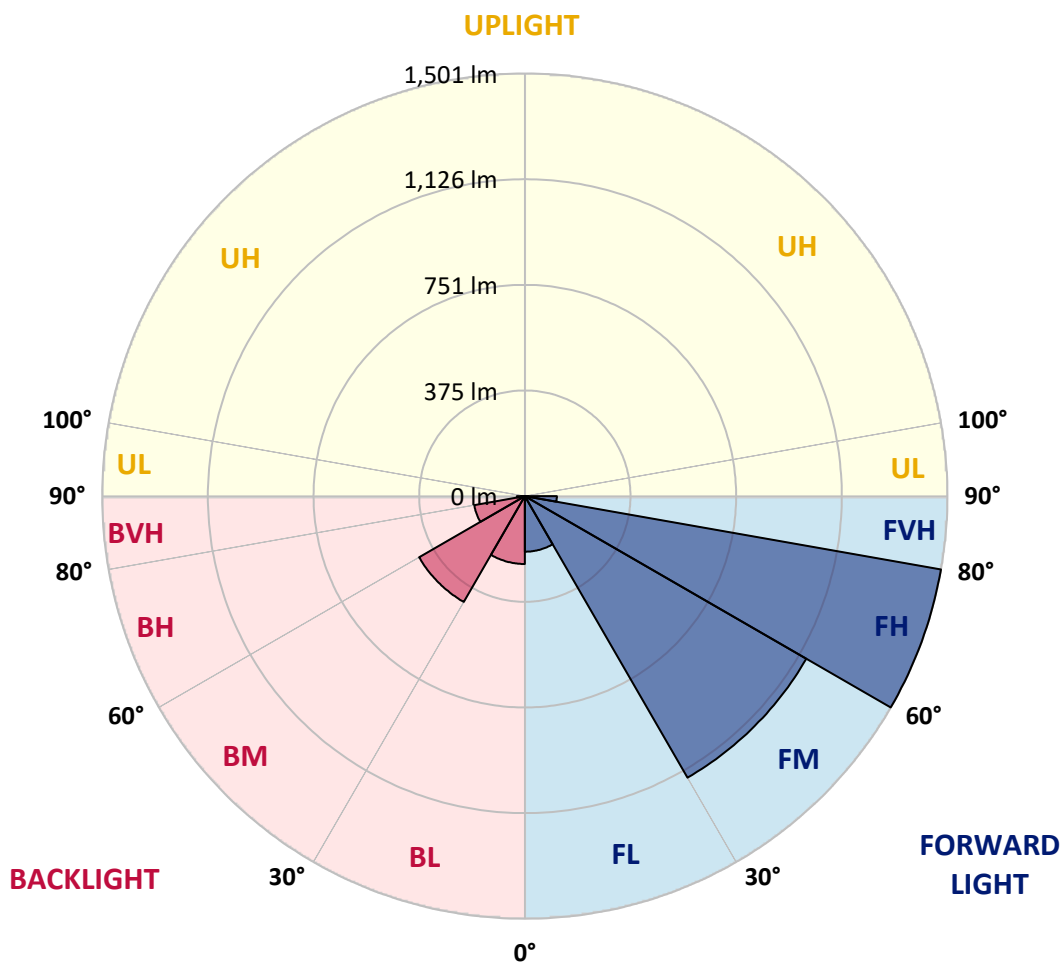
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 CATALOG NUMBER: CCW-SA-1C-840-U-T4FT

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	197.5	5.1			
FM (30°-60°)	1154.7	30.0			
FH (60°-80°)	1501.2	39.0			G1/1800
FVH (80°-90°)	113.7	3.0			G2/225
BL (0°-30°)	241.0	6.3	B1/500		
BM (30°-60°)	433.9	11.3	B1/1000		
BH (60°-80°)	182.6	4.7	B1/500		G1/500
BVH (80°-90°)	28.0	0.7			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: P675190

CATALOG NUMBER: CCW-SA-1C-840-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	527.8	527.8	527.8	527.8	527.8	527.8	527.8	527.8	527.8	527.8	527.8
2.5°	478.1	473.9	478.1	481.0	481.0	481.0	485.2	498.0	506.5	512.2	522.1
5°	428.5	429.9	432.7	439.8	444.1	446.9	454.0	469.6	482.4	500.9	522.1
7.5°	384.5	387.3	391.6	398.7	408.6	407.2	422.8	444.1	468.2	492.3	523.6
10°	361.8	367.5	368.9	370.3	380.2	380.2	401.5	425.7	455.4	486.7	523.6
12.5°	366.1	366.1	361.8	360.4	366.1	364.6	383.1	411.5	444.1	488.1	529.2
15°	378.8	378.8	370.3	361.8	370.3	367.5	383.1	405.8	444.1	489.5	540.6
17.5°	395.9	397.3	387.3	373.2	376.0	377.4	388.8	410.0	444.1	492.3	556.2
20°	429.9	422.8	407.2	384.5	394.4	390.2	407.2	425.7	452.6	503.7	578.9
22.5°	459.7	459.7	429.9	410.0	411.5	411.5	427.1	442.7	465.4	519.3	595.9
25°	507.9	505.1	468.2	438.4	441.3	442.7	451.2	469.6	486.7	527.8	617.2
27.5°	569.0	561.9	525.0	490.9	479.6	483.8	488.1	502.3	506.5	542.0	642.7
30°	634.2	624.3	593.1	539.2	533.5	534.9	527.8	536.3	530.6	564.7	668.3
32.5°	675.4	675.4	645.6	605.8	590.2	590.2	566.1	571.8	571.8	586.0	713.7
35°	710.8	708.0	688.1	658.3	648.4	642.7	618.6	627.1	612.9	627.1	777.5
37.5°	764.8	756.2	747.7	727.9	708.0	703.7	691.0	696.6	676.8	669.7	849.9
40°	827.2	822.9	814.4	805.9	786.0	784.6	770.4	776.1	754.8	727.9	922.2
42.5°	919.4	906.6	879.7	872.6	876.8	882.5	876.8	866.9	828.6	794.5	1000.3
45°	1011.6	991.8	940.7	929.3	962.0	957.7	981.8	977.6	915.2	861.2	1082.6
47.5°	1071.2	1054.2	1013.1	1006.0	1020.1	1025.8	1098.2	1085.4	986.1	922.2	1162.0
50°	1113.8	1115.2	1061.3	1079.7	1098.2	1098.2	1189.0	1187.6	1072.6	997.4	1265.6
52.5°	1176.2	1156.4	1133.7	1150.7	1176.2	1190.4	1302.5	1271.3	1126.6	1061.3	1381.9
55°	1208.9	1200.3	1180.5	1210.3	1264.2	1271.3	1390.5	1366.3	1187.6	1136.5	1501.1
57.5°	1221.6	1228.7	1261.3	1274.1	1349.3	1367.8	1469.9	1435.9	1244.3	1230.1	1593.4
60°	1278.4	1268.4	1312.4	1363.5	1435.9	1445.8	1569.2	1495.5	1299.7	1291.1	1623.2
62.5°	1393.3	1367.8	1391.9	1452.9	1553.6	1566.4	1674.2	1574.9	1323.8	1332.3	1621.7
65°	1560.7	1542.3	1506.8	1555.0	1696.9	1715.4	1797.7	1643.0	1316.7	1318.1	1506.8
67.5°	1757.9	1728.1	1691.3	1721.1	1894.1	1936.7	1948.1	1672.8	1267.0	1238.6	1225.9
70°	1931.0	1911.2	1887.1	1938.1	2179.3	2194.9	2135.4	1654.4	1129.4	994.6	817.3
72.5°	2092.8	2082.9	2097.0	2288.6	2565.3	2575.2	2311.3	1538.0	892.4	603.0	380.2
75°	2105.6	2095.6	2193.5	2578.0	3049.1	3067.5	2420.5	1206.0	471.1	245.5	160.3
77.5°	1425.9	1455.7	1638.8	2257.4	2800.8	2805.0	1979.3	560.4	194.4	144.7	112.1
80°	350.5	388.8	617.2	1167.7	1888.5	1935.3	1084.0	188.7	127.7	110.7	83.7
82.5°	127.7	139.0	251.1	527.8	1061.3	1079.7	378.8	102.2	92.2	85.1	61.0
85°	61.0	62.4	119.2	259.6	536.3	530.6	136.2	61.0	66.7	58.2	36.9
87.5°	25.5	25.5	52.5	120.6	236.9	229.9	44.0	28.4	38.3	34.1	18.4
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°	527.8	527.8	527.8	527.8	527.8	527.8	527.8	527.8	527.8	527.8	527.8
2.5°	529.2	532.1	543.4	551.9	560.4	567.5	578.9	578.9	586.0	586.0	586.0
5°	527.8	543.4	561.9	581.7	594.5	607.3	618.6	620.0	624.3	630.0	631.4
7.5°	533.5	549.1	578.9	607.3	622.9	628.5	642.7	638.5	638.5	638.5	642.7
10°	544.8	561.9	603.0	628.5	639.9	641.3	637.1	634.2	625.7	622.9	618.6
12.5°	553.3	583.1	624.3	644.2	639.9	635.6	625.7	611.5	601.6	598.7	598.7
15°	574.6	604.4	642.7	649.8	642.7	620.0	607.3	591.7	583.1	570.4	576.0
17.5°	593.1	627.1	661.2	652.7	638.5	603.0	584.6	561.9	550.5	536.3	536.3
20°	617.2	648.4	678.2	655.5	624.3	586.0	556.2	527.8	512.2	498.0	500.9
22.5°	644.2	672.5	688.1	644.2	603.0	559.0	517.9	490.9	471.1	462.5	465.4
25°	665.4	696.6	693.8	625.7	577.5	525.0	479.6	454.0	449.8	441.3	441.3
27.5°	692.4	725.0	689.6	603.0	534.9	471.1	442.7	432.7	432.7	428.5	431.3
30°	727.9	750.6	679.6	570.4	481.0	422.8	408.6	414.3	424.2	420.0	421.4
32.5°	786.0	783.2	671.1	533.5	424.2	376.0	385.9	397.3	405.8	410.0	412.9
35°	842.8	824.3	661.2	483.8	371.7	353.3	361.8	374.6	390.2	394.4	395.9
37.5°	899.5	866.9	644.2	422.8	339.1	333.4	341.9	349.0	361.8	364.6	367.5
40°	959.1	895.3	614.4	363.2	312.1	312.1	317.8	319.2	326.3	330.6	333.4
42.5°	1011.6	922.2	560.4	307.9	283.8	293.7	295.1	292.3	286.6	289.4	290.9
45°	1075.5	952.0	498.0	268.2	262.5	275.3	278.1	266.7	256.8	251.1	248.3
47.5°	1137.9	983.3	444.1	235.5	242.6	262.5	262.5	249.7	232.7	218.5	212.8
50°	1194.7	1014.5	400.1	215.7	222.8	252.6	255.4	231.3	212.8	195.8	193.0
52.5°	1289.7	1067.0	354.7	200.1	211.4	245.5	244.0	222.8	198.6	180.2	178.8
55°	1373.4	1119.5	295.1	184.4	200.1	235.5	239.8	214.2	181.6	164.6	161.7
57.5°	1434.4	1132.2	235.5	168.8	188.7	224.2	229.9	197.2	170.3	156.1	154.7
60°	1445.8	1082.6	191.5	156.1	173.1	208.6	212.8	187.3	161.7	150.4	147.6
62.5°	1393.3	987.5	163.2	144.7	160.3	193.0	201.5	175.9	153.2	143.3	141.9
65°	1274.1	848.5	143.3	134.8	151.8	181.6	191.5	167.4	146.1	137.6	136.2
67.5°	1008.8	651.2	127.7	127.7	140.5	170.3	184.4	161.7	139.0	133.4	132.0
70°	659.8	391.6	116.3	117.8	132.0	160.3	175.9	154.7	130.5	129.1	126.3
72.5°	283.8	180.2	103.6	107.8	119.2	143.3	163.2	144.7	120.6	116.3	112.1
75°	130.5	109.3	93.6	96.5	106.4	126.3	147.6	133.4	112.1	105.0	100.7
77.5°	92.2	79.5	78.0	83.7	90.8	109.3	130.5	124.9	103.6	97.9	95.1
80°	68.1	61.0	65.3	70.9	75.2	100.7	123.4	114.9	95.1	86.5	82.3
82.5°	48.2	45.4	51.1	56.8	61.0	88.0	113.5	100.7	79.5	72.4	65.3
85°	28.4	29.8	35.5	38.3	42.6	65.3	95.1	80.9	61.0	46.8	45.4
87.5°	12.8	12.8	17.0	18.4	21.3	38.3	63.8	51.1	38.3	29.8	28.4
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)