

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: P675188

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675188
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-840-U-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T4FT distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

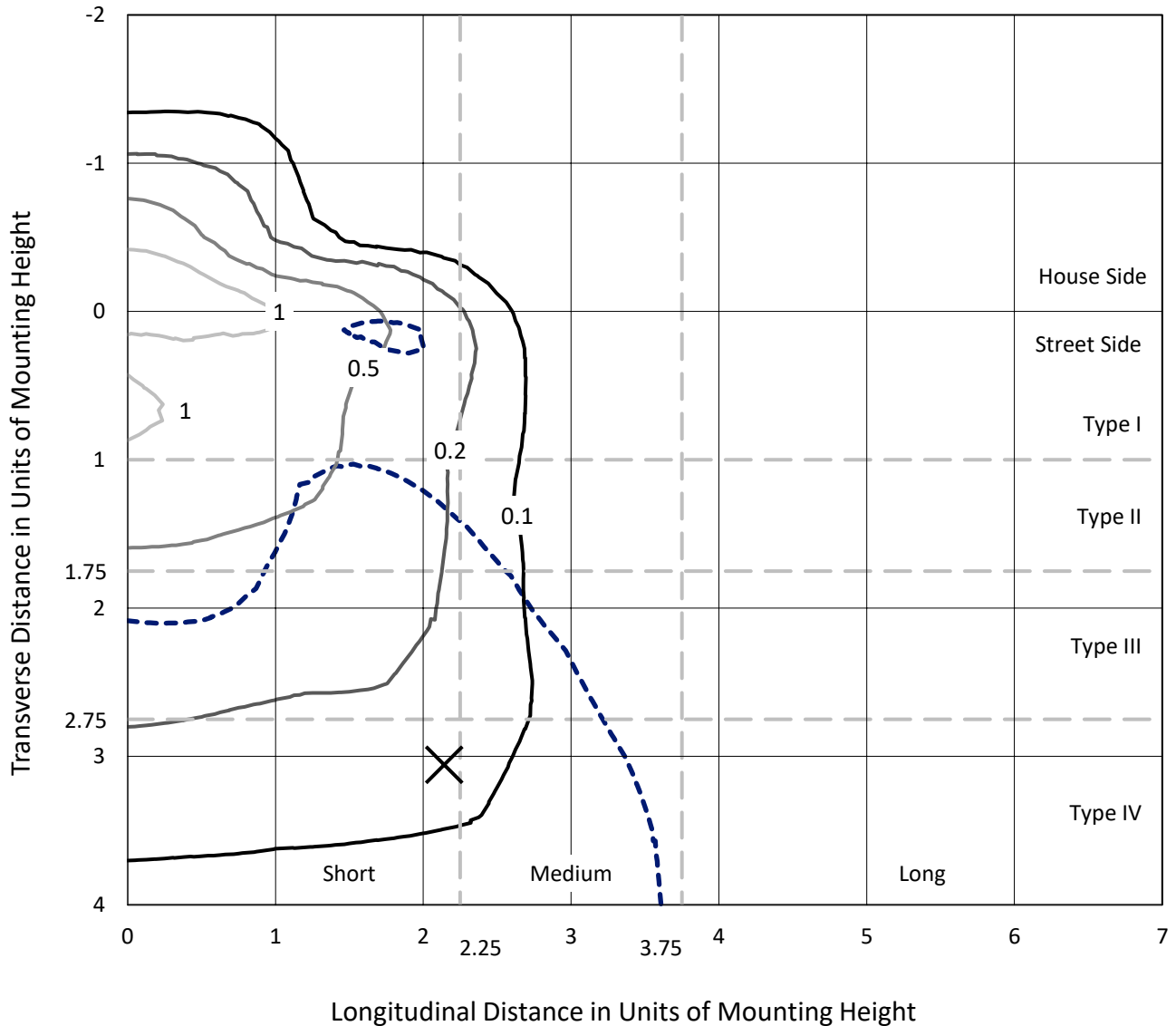
Lumens per Lamp: N/A
Luminaire Lumens: 2331.1 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 18
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: P675188
 CATALOG NUMBER: CCW-SA-1A-840-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

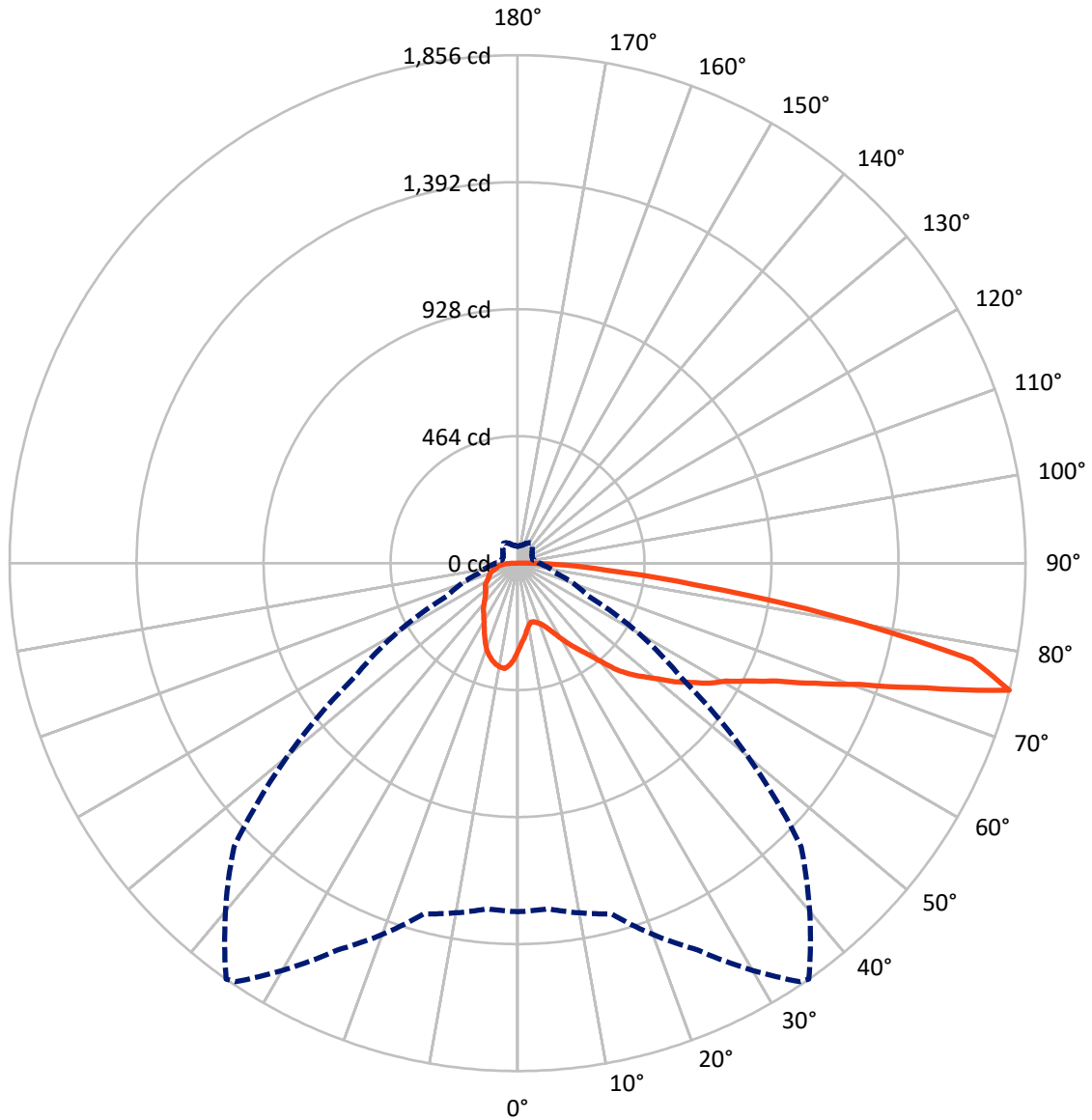
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P675188
CATALOG NUMBER: CCW-SA-1A-840-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P675188
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	535.8	0.0	535.8
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	1795.4	0.0	1795.4
	% Fixture	77.0	0.0	77.0
Total	Lumens	2331.1	0.0	2331.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.4	1.3
10°-20°	88.3	3.8
20°-30°	146.6	6.3
30°-40°	217.2	9.3
40°-50°	313.2	13.4
50°-60°	430.8	18.5
60°-70°	532.1	22.8
70°-80°	486.8	20.9
80°-90°	85.7	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°	2331.1	100.0
0°-180°	2331.1	100.0



REPORT NUMBER: P675188

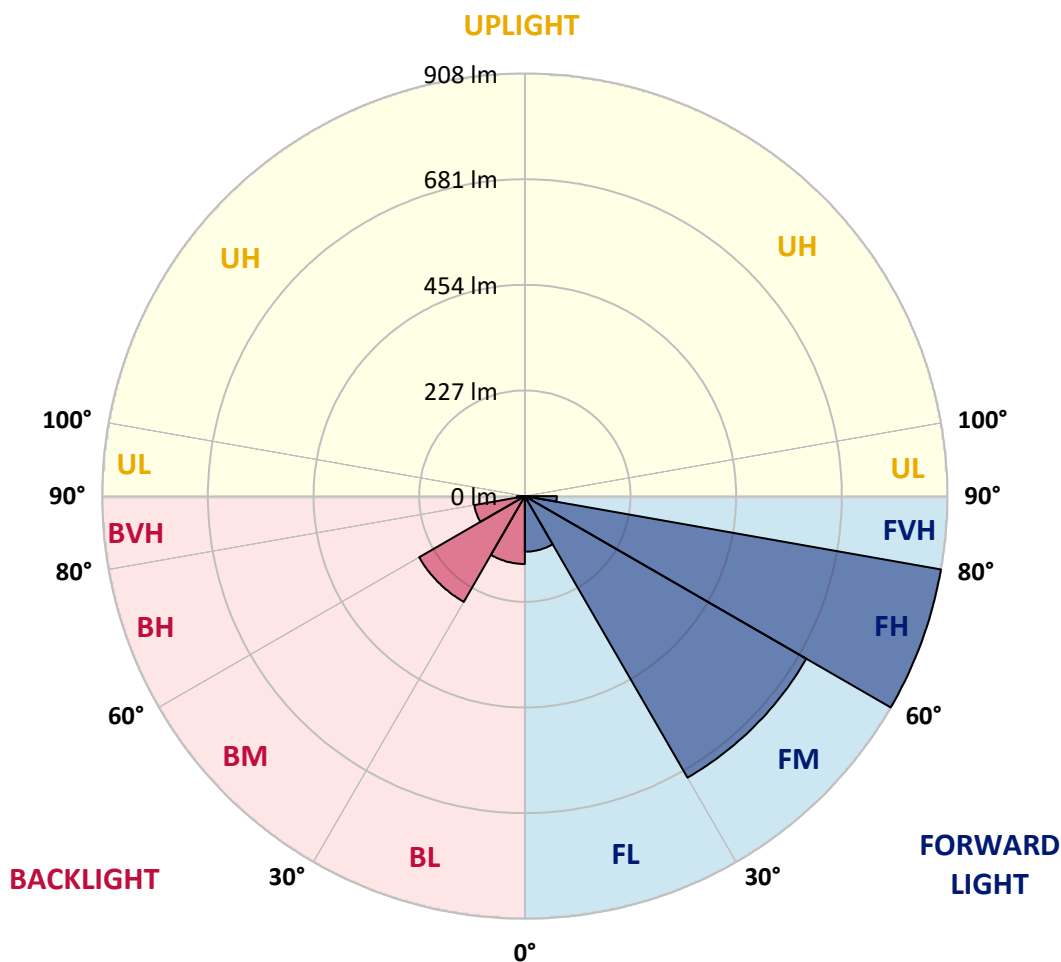
CATALOG NUMBER: CCW-SA-1A-840-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	119.5	5.1			
FM (30°-60°)	698.7	30.0			
FH (60°-80°)	908.4	39.0			G1/1800
FVH (80°-90°)	68.8	3.0			G1/100
BL (0°-30°)	145.8	6.3	B1/500		
BM (30°-60°)	262.5	11.3	B1/1000		
BH (60°-80°)	110.5	4.7	B1/500		G1/500
BVH (80°-90°)	16.9	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-G1

Type IV Short





REPORT NUMBER: P675188

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4
2.5°	289.3	286.8	289.3	291.0	291.0	291.0	293.6	301.3	306.5	309.9	315.9
5°	259.3	260.1	261.9	266.1	268.7	270.4	274.7	284.2	291.9	303.1	315.9
7.5°	232.7	234.4	237.0	241.2	247.3	246.4	255.8	268.7	283.3	297.9	316.8
10°	218.9	222.4	223.2	224.1	230.1	230.1	243.0	257.6	275.6	294.5	316.8
12.5°	221.5	221.5	218.9	218.1	221.5	220.6	231.8	249.0	268.7	295.3	320.2
15°	229.2	229.2	224.1	218.9	224.1	222.4	231.8	245.5	268.7	296.2	327.1
17.5°	239.5	240.4	234.4	225.8	227.5	228.4	235.2	248.1	268.7	297.9	336.5
20°	260.1	255.8	246.4	232.7	238.7	236.1	246.4	257.6	273.9	304.8	350.3
22.5°	278.2	278.2	260.1	248.1	249.0	249.0	258.4	267.9	281.6	314.2	360.6
25°	307.4	305.6	283.3	265.3	267.0	267.9	273.0	284.2	294.5	319.4	373.5
27.5°	344.3	340.0	317.7	297.1	290.2	292.8	295.3	303.9	306.5	328.0	388.9
30°	383.8	377.8	358.9	326.2	322.8	323.7	319.4	324.5	321.1	341.7	404.4
32.5°	408.7	408.7	390.6	366.6	357.2	357.2	342.6	346.0	346.0	354.6	431.8
35°	430.1	428.4	416.4	398.4	392.4	388.9	374.3	379.5	370.9	379.5	470.5
37.5°	462.8	457.6	452.5	440.4	428.4	425.8	418.1	421.5	409.5	405.2	514.3
40°	500.5	498.0	492.8	487.7	475.6	474.8	466.2	469.6	456.7	440.4	558.1
42.5°	556.3	548.6	532.3	528.0	530.6	534.0	530.6	524.6	501.4	480.8	605.3
45°	612.1	600.1	569.2	562.3	582.1	579.5	594.1	591.5	553.8	521.1	655.1
47.5°	648.2	637.9	613.0	608.7	617.3	620.7	664.5	656.8	596.7	558.1	703.1
50°	674.0	674.8	642.2	653.3	664.5	664.5	719.5	718.6	649.1	603.6	765.8
52.5°	711.7	699.7	686.0	696.3	711.7	720.3	788.1	769.3	681.7	642.2	836.2
55°	731.5	726.3	714.3	732.3	765.0	769.3	841.4	826.8	718.6	687.7	908.3
57.5°	739.2	743.5	763.2	771.0	816.5	827.6	889.4	868.8	752.9	744.4	964.1
60°	773.5	767.5	794.1	825.1	868.8	874.9	949.5	904.9	786.4	781.3	982.2
62.5°	843.1	827.6	842.2	879.1	940.1	947.8	1013.1	953.0	801.0	806.2	981.3
65°	944.4	933.2	911.8	941.0	1026.8	1038.0	1087.8	994.2	796.7	797.6	911.8
67.5°	1063.7	1045.7	1023.4	1041.4	1146.1	1171.9	1178.8	1012.2	766.7	749.5	741.8
70°	1168.5	1156.5	1141.9	1172.8	1318.7	1328.2	1292.1	1001.1	683.4	601.8	494.5
72.5°	1266.3	1260.3	1268.9	1384.8	1552.2	1558.2	1398.6	930.7	540.0	364.9	230.1
75°	1274.1	1268.1	1327.3	1560.0	1845.0	1856.2	1464.7	729.8	285.0	148.5	97.0
77.5°	862.8	880.9	991.6	1365.9	1694.8	1697.3	1197.7	339.1	117.6	87.6	67.8
80°	212.1	235.2	373.5	706.6	1142.7	1171.0	655.9	114.2	77.3	67.0	50.7
82.5°	77.3	84.1	152.0	319.4	642.2	653.3	229.2	61.8	55.8	51.5	36.9
85°	36.9	37.8	72.1	157.1	324.5	321.1	82.4	36.9	40.4	35.2	22.3
87.5°	15.5	15.5	31.8	73.0	143.4	139.1	26.6	17.2	23.2	20.6	11.2
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: P675188
 CATALOG NUMBER: CCW-SA-1A-840-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4
2.5°	320.2	322.0	328.8	334.0	339.1	343.4	350.3	350.3	354.6	354.6	354.6
5°	319.4	328.8	340.0	352.0	359.7	367.5	374.3	375.2	377.8	381.2	382.0
7.5°	322.8	332.3	350.3	367.5	376.9	380.3	388.9	386.3	386.3	386.3	388.9
10°	329.7	340.0	364.9	380.3	387.2	388.1	385.5	383.8	378.6	376.9	374.3
12.5°	334.8	352.9	377.8	389.8	387.2	384.6	378.6	370.0	364.0	362.3	362.3
15°	347.7	365.7	388.9	393.2	388.9	375.2	367.5	358.0	352.9	345.1	348.6
17.5°	358.9	379.5	400.1	394.9	386.3	364.9	353.7	340.0	333.1	324.5	324.5
20°	373.5	392.4	410.4	396.6	377.8	354.6	336.5	319.4	309.9	301.3	303.1
22.5°	389.8	406.9	416.4	389.8	364.9	338.3	313.4	297.1	285.0	279.9	281.6
25°	402.7	421.5	419.8	378.6	349.4	317.7	290.2	274.7	272.2	267.0	267.0
27.5°	419.0	438.7	417.2	364.9	323.7	285.0	267.9	261.9	261.9	259.3	261.0
30°	440.4	454.2	411.2	345.1	291.0	255.8	247.3	250.7	256.7	254.1	255.0
32.5°	475.6	473.9	406.1	322.8	256.7	227.5	233.5	240.4	245.5	248.1	249.8
35°	510.0	498.8	400.1	292.8	224.9	213.8	218.9	226.7	236.1	238.7	239.5
37.5°	544.3	524.6	389.8	255.8	205.2	201.8	206.9	211.2	218.9	220.6	222.4
40°	580.4	541.7	371.7	219.8	188.9	188.9	192.3	193.2	197.5	200.0	201.8
42.5°	612.1	558.1	339.1	186.3	171.7	177.7	178.6	176.9	173.4	175.1	176.0
45°	650.8	576.1	301.3	162.3	158.8	166.6	168.3	161.4	155.4	152.0	150.2
47.5°	688.5	595.0	268.7	142.5	146.8	158.8	158.8	151.1	140.8	132.2	128.8
50°	722.9	613.9	242.1	130.5	134.8	152.8	154.5	139.9	128.8	118.5	116.8
52.5°	780.4	645.6	214.6	121.1	127.9	148.5	147.7	134.8	120.2	109.0	108.2
55°	831.1	677.4	178.6	111.6	121.1	142.5	145.1	129.6	109.9	99.6	97.9
57.5°	868.0	685.1	142.5	102.2	114.2	135.6	139.1	119.3	103.0	94.4	93.6
60°	874.9	655.1	115.9	94.4	104.7	126.2	128.8	113.3	97.9	91.0	89.3
62.5°	843.1	597.5	98.7	87.6	97.0	116.8	121.9	106.5	92.7	86.7	85.9
65°	771.0	513.4	86.7	81.6	91.9	109.9	115.9	101.3	88.4	83.3	82.4
67.5°	610.4	394.1	77.3	77.3	85.0	103.0	111.6	97.9	84.1	80.7	79.8
70°	399.2	237.0	70.4	71.3	79.8	97.0	106.5	93.6	79.0	78.1	76.4
72.5°	171.7	109.0	62.7	65.2	72.1	86.7	98.7	87.6	73.0	70.4	67.8
75°	79.0	66.1	56.7	58.4	64.4	76.4	89.3	80.7	67.8	63.5	61.0
77.5°	55.8	48.1	47.2	50.7	54.9	66.1	79.0	75.6	62.7	59.2	57.5
80°	41.2	36.9	39.5	42.9	45.5	61.0	74.7	69.5	57.5	52.4	49.8
82.5°	29.2	27.5	30.9	34.3	36.9	53.2	68.7	61.0	48.1	43.8	39.5
85°	17.2	18.0	21.5	23.2	25.8	39.5	57.5	48.9	36.9	28.3	27.5
87.5°	7.7	7.7	10.3	11.2	12.9	23.2	38.6	30.9	23.2	18.0	17.2
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)