

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: P675156

Luminaire Tested: **CCW-SA-1B-827-U-T4FT**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675156
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-827-U-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T4FT distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

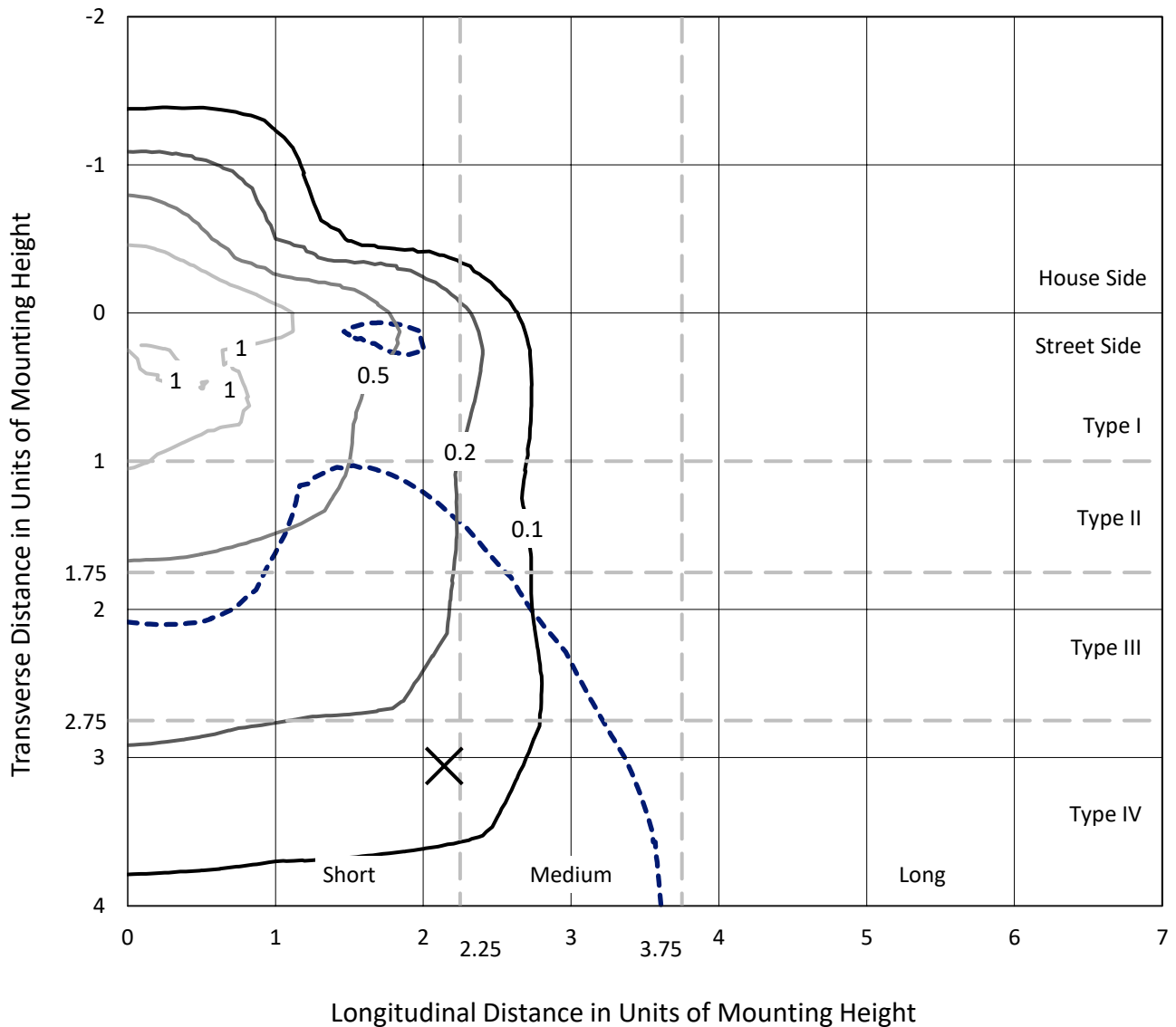
Lumens per Lamp: N/A
Luminaire Lumens: 2537.2 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
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

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Iso-Footcandle Lines of Horizontal Illumination

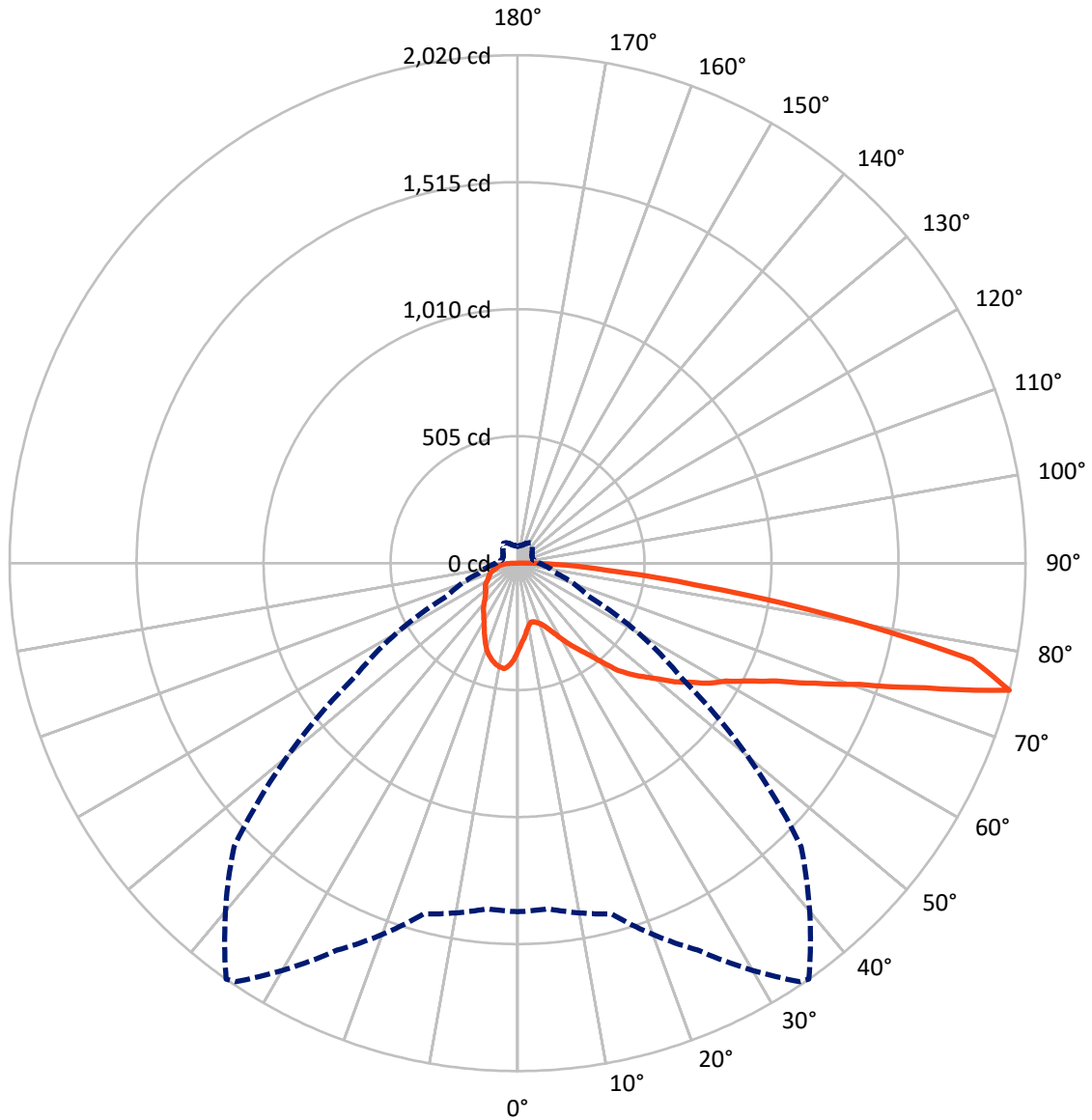
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	583.1	0.0	583.1
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	1954.1	0.0	1954.1
	% Fixture	77.0	0.0	77.0
Total	Lumens	2537.2	0.0	2537.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	1.3
10°-20°	96.1	3.8
20°-30°	159.5	6.3
30°-40°	236.5	9.3
40°-50°	340.9	13.4
50°-60°	468.8	18.5
60°-70°	579.1	22.8
70°-80°	529.8	20.9
80°-90°	93.3	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°	2537.2	100.0
0°-180°	2537.2	100.0



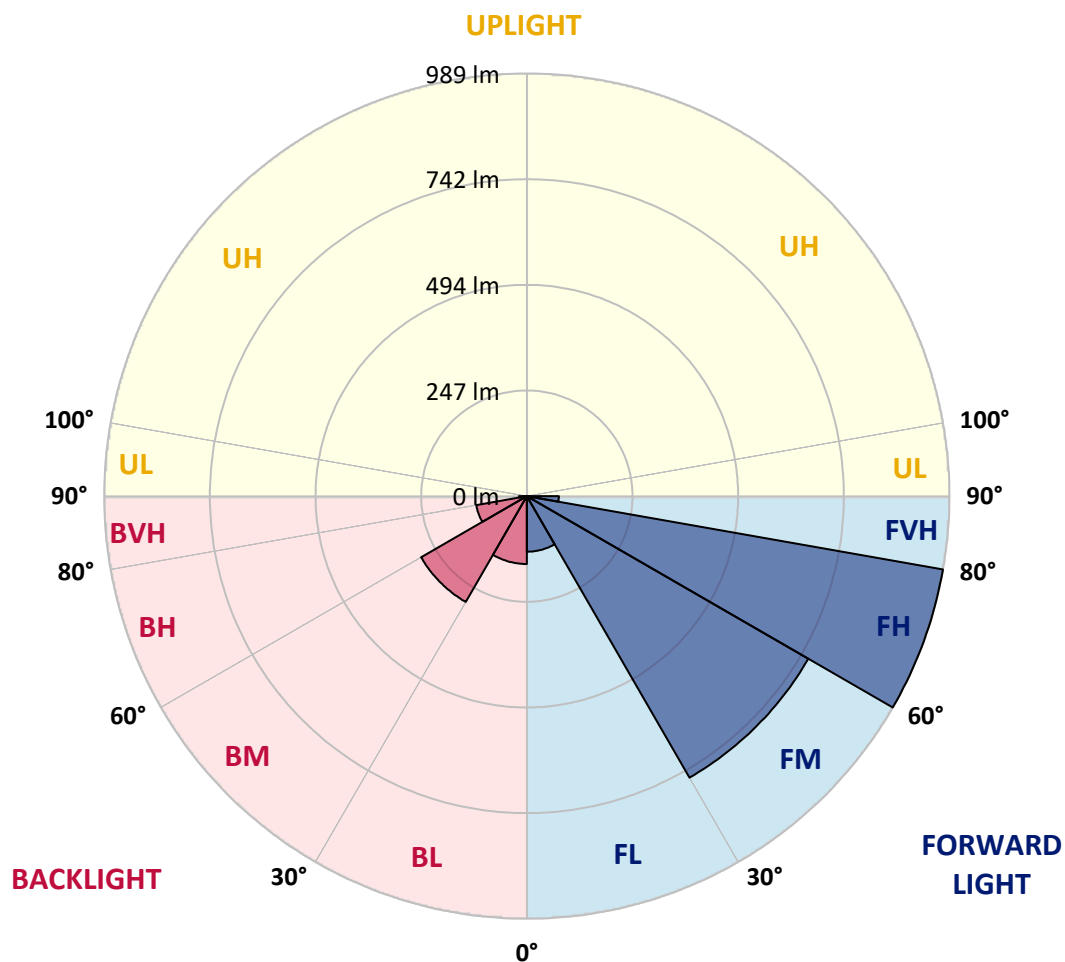
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	130.0	5.1			
FM (30°-60°)	760.5	30.0			
FH (60°-80°)	988.7	39.0			G1/1800
FVH (80°-90°)	74.9	3.0			G1/100
BL (0°-30°)	158.7	6.3	B1/500		
BM (30°-60°)	285.7	11.3	B1/1000		
BH (60°-80°)	120.2	4.7	B1/500		G1/500
BVH (80°-90°)	18.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	347.6	347.6	347.6	347.6	347.6	347.6	347.6	347.6	347.6	347.6	347.6
2.5°	314.9	312.1	314.9	316.8	316.8	316.8	319.6	328.0	333.6	337.3	343.9
5°	282.2	283.1	285.0	289.7	292.5	294.3	299.0	309.3	317.7	329.9	343.9
7.5°	253.2	255.1	257.9	262.6	269.1	268.2	278.5	292.5	308.4	324.2	344.8
10°	238.3	242.0	243.0	243.9	250.4	250.4	264.4	280.3	300.0	320.5	344.8
12.5°	241.1	241.1	238.3	237.3	241.1	240.1	252.3	271.0	292.5	321.4	348.5
15°	249.5	249.5	243.9	238.3	243.9	242.0	252.3	267.2	292.5	322.4	356.0
17.5°	260.7	261.6	255.1	245.8	247.6	248.6	256.0	270.1	292.5	324.2	366.3
20°	283.1	278.5	268.2	253.2	259.8	257.0	268.2	280.3	298.1	331.7	381.2
22.5°	302.8	302.8	283.1	270.1	271.0	271.0	281.3	291.5	306.5	342.0	392.5
25°	334.5	332.7	308.4	288.7	290.6	291.5	297.1	309.3	320.5	347.6	406.5
27.5°	374.7	370.0	345.7	323.3	315.8	318.6	321.4	330.8	333.6	357.0	423.3
30°	417.7	411.1	390.6	355.1	351.3	352.3	347.6	353.2	349.5	371.9	440.1
32.5°	444.8	444.8	425.2	399.0	388.7	388.7	372.8	376.6	376.6	385.9	470.0
35°	468.1	466.3	453.2	433.6	427.0	423.3	407.4	413.0	403.7	413.0	512.1
37.5°	503.7	498.1	492.4	479.4	466.3	463.5	455.1	458.8	445.7	441.1	559.7
40°	544.8	542.0	536.4	530.8	517.7	516.7	507.4	511.1	497.1	479.4	607.4
42.5°	605.5	597.1	579.3	574.7	577.5	581.2	577.5	570.9	545.7	523.3	658.8
45°	666.2	653.2	619.5	612.1	633.5	630.7	646.6	643.8	602.7	567.2	713.0
47.5°	705.5	694.3	667.2	662.5	671.9	675.6	723.2	714.8	649.4	607.4	765.3
50°	733.5	734.5	699.0	711.1	723.2	723.2	783.1	782.1	706.4	656.9	833.5
52.5°	774.6	761.6	746.6	757.8	774.6	784.0	857.8	837.2	741.9	699.0	910.1
55°	796.1	790.5	777.4	797.1	832.6	837.2	915.7	899.9	782.1	748.5	988.6
57.5°	804.5	809.2	830.7	839.1	888.6	900.8	968.1	945.6	819.5	810.2	1049.4
60°	841.9	835.4	864.3	898.0	945.6	952.2	1033.5	984.9	855.9	850.3	1069.0
62.5°	917.6	900.8	916.7	956.9	1023.2	1031.6	1102.6	1037.2	871.8	877.4	1068.1
65°	1027.9	1015.7	992.4	1024.1	1117.6	1129.7	1183.9	1082.1	867.2	868.1	992.4
67.5°	1157.8	1138.1	1113.8	1133.5	1247.5	1275.5	1283.0	1101.7	834.4	815.8	807.3
70°	1271.8	1258.7	1242.8	1276.4	1435.3	1445.6	1406.3	1089.5	743.8	655.0	538.2
72.5°	1378.3	1371.7	1381.1	1507.2	1689.4	1696.0	1522.2	1012.9	587.8	397.1	250.4
75°	1386.7	1380.2	1444.6	1697.9	2008.1	2020.2	1594.1	794.3	310.2	161.7	105.6
77.5°	939.1	958.7	1079.3	1486.7	1844.6	1847.4	1303.5	369.1	128.0	95.3	73.8
80°	230.8	256.0	406.5	769.0	1243.7	1274.6	713.9	124.3	84.1	72.9	55.1
82.5°	84.1	91.6	165.4	347.6	699.0	711.1	249.5	67.3	60.7	56.1	40.2
85°	40.2	41.1	78.5	171.0	353.2	349.5	89.7	40.2	43.9	38.3	24.3
87.5°	16.8	16.8	34.6	79.4	156.0	151.4	29.0	18.7	25.2	22.4	12.1
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°	347.6	347.6	347.6	347.6	347.6	347.6	347.6	347.6	347.6	347.6	347.6
2.5°	348.5	350.4	357.9	363.5	369.1	373.8	381.2	381.2	385.9	385.9	385.9
5°	347.6	357.9	370.0	383.1	391.5	399.9	407.4	408.3	411.1	414.9	415.8
7.5°	351.3	361.6	381.2	399.9	410.2	414.0	423.3	420.5	420.5	420.5	423.3
10°	358.8	370.0	397.1	414.0	421.4	422.4	419.6	417.7	412.1	410.2	407.4
12.5°	364.4	384.1	411.1	424.2	421.4	418.6	412.1	402.7	396.2	394.3	394.3
15°	378.4	398.1	423.3	428.0	423.3	408.3	399.9	389.7	384.1	375.6	379.4
17.5°	390.6	413.0	435.4	429.8	420.5	397.1	385.0	370.0	362.6	353.2	353.2
20°	406.5	427.0	446.7	431.7	411.1	385.9	366.3	347.6	337.3	328.0	329.9
22.5°	424.2	442.9	453.2	424.2	397.1	368.2	341.1	323.3	310.2	304.6	306.5
25°	438.2	458.8	456.9	412.1	380.3	345.7	315.8	299.0	296.2	290.6	290.6
27.5°	456.0	477.5	454.1	397.1	352.3	310.2	291.5	285.0	285.0	282.2	284.1
30°	479.4	494.3	447.6	375.6	316.8	278.5	269.1	272.9	279.4	276.6	277.5
32.5°	517.7	515.8	442.0	351.3	279.4	247.6	254.2	261.6	267.2	270.1	271.9
35°	555.1	542.9	435.4	318.6	244.8	232.7	238.3	246.7	257.0	259.8	260.7
37.5°	592.4	570.9	424.2	278.5	223.3	219.6	225.2	229.9	238.3	240.1	242.0
40°	631.7	589.6	404.6	239.2	205.6	205.6	209.3	210.2	214.9	217.7	219.6
42.5°	666.2	607.4	369.1	202.8	186.9	193.4	194.4	192.5	188.8	190.6	191.6
45°	708.3	627.0	328.0	176.6	172.9	181.3	183.1	175.7	169.1	165.4	163.5
47.5°	749.4	647.6	292.5	155.1	159.8	172.9	172.9	164.5	153.2	143.9	140.2
50°	786.8	668.1	263.5	142.0	146.7	166.3	168.2	152.3	140.2	129.0	127.1
52.5°	849.4	702.7	233.6	131.8	139.2	161.7	160.7	146.7	130.8	118.7	117.7
55°	904.5	737.3	194.4	121.5	131.8	155.1	157.9	141.1	119.6	108.4	106.5
57.5°	944.7	745.7	155.1	111.2	124.3	147.6	151.4	129.9	112.1	102.8	101.9
60°	952.2	713.0	126.1	102.8	114.0	137.4	140.2	123.3	106.5	99.0	97.2
62.5°	917.6	650.4	107.5	95.3	105.6	127.1	132.7	115.9	100.9	94.4	93.4
65°	839.1	558.8	94.4	88.8	100.0	119.6	126.1	110.3	96.2	90.6	89.7
67.5°	664.4	428.9	84.1	84.1	92.5	112.1	121.5	106.5	91.6	87.8	86.9
70°	434.5	257.9	76.6	77.6	86.9	105.6	115.9	101.9	86.0	85.0	83.2
72.5°	186.9	118.7	68.2	71.0	78.5	94.4	107.5	95.3	79.4	76.6	73.8
75°	86.0	72.0	61.7	63.5	70.1	83.2	97.2	87.8	73.8	69.1	66.3
77.5°	60.7	52.3	51.4	55.1	59.8	72.0	86.0	82.2	68.2	64.5	62.6
80°	44.9	40.2	43.0	46.7	49.5	66.3	81.3	75.7	62.6	57.0	54.2
82.5°	31.8	29.9	33.6	37.4	40.2	57.9	74.8	66.3	52.3	47.7	43.0
85°	18.7	19.6	23.4	25.2	28.0	43.0	62.6	53.3	40.2	30.8	29.9
87.5°	8.4	8.4	11.2	12.1	14.0	25.2	42.0	33.6	25.2	19.6	18.7
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)