

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: P675200

Luminaire Tested: **CCW-SA-1B-850-U-T4FT**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675200
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-850-U-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T4FT distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

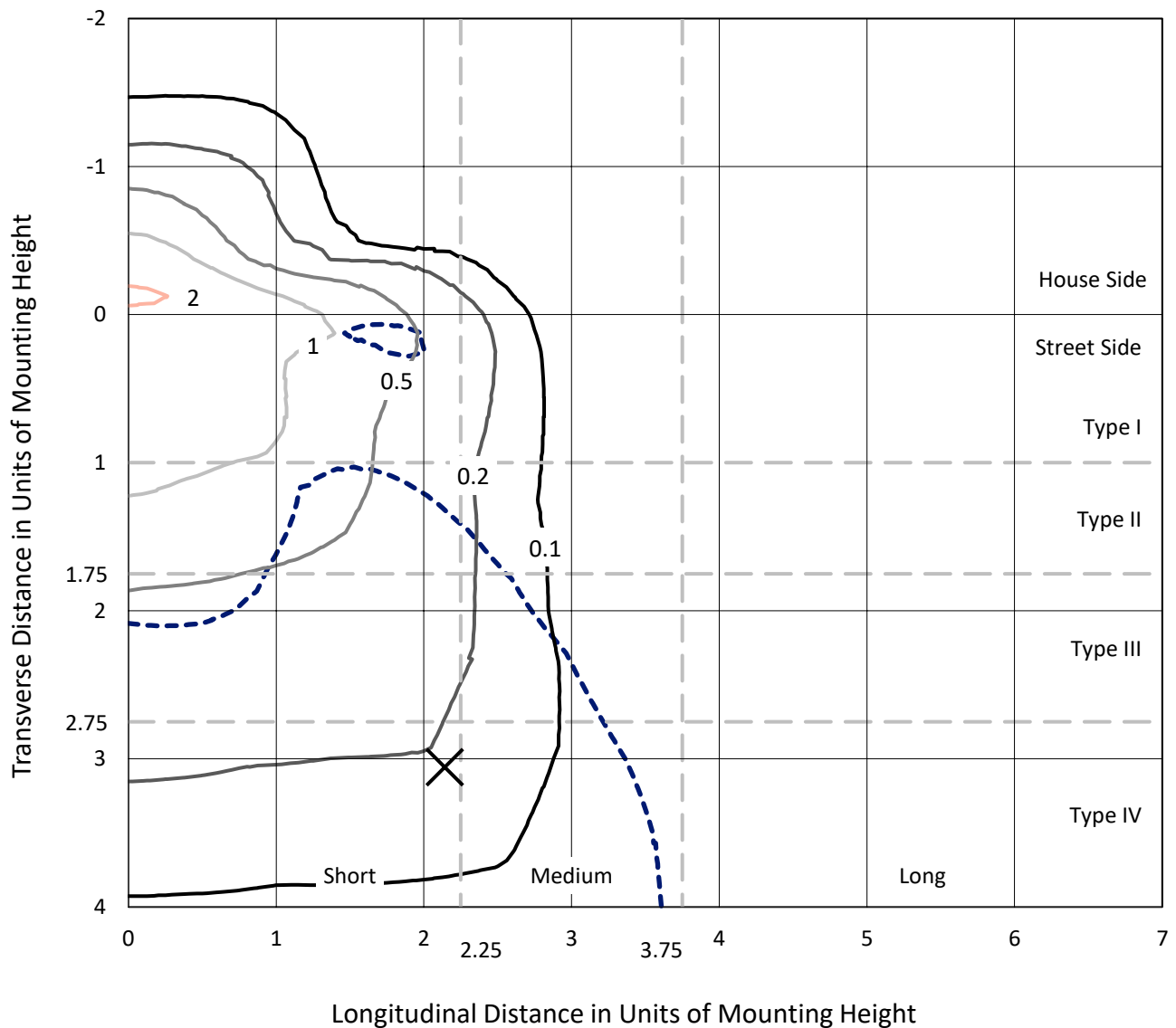
Lumens per Lamp: N/A
Luminaire Lumens: 3011.7 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 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

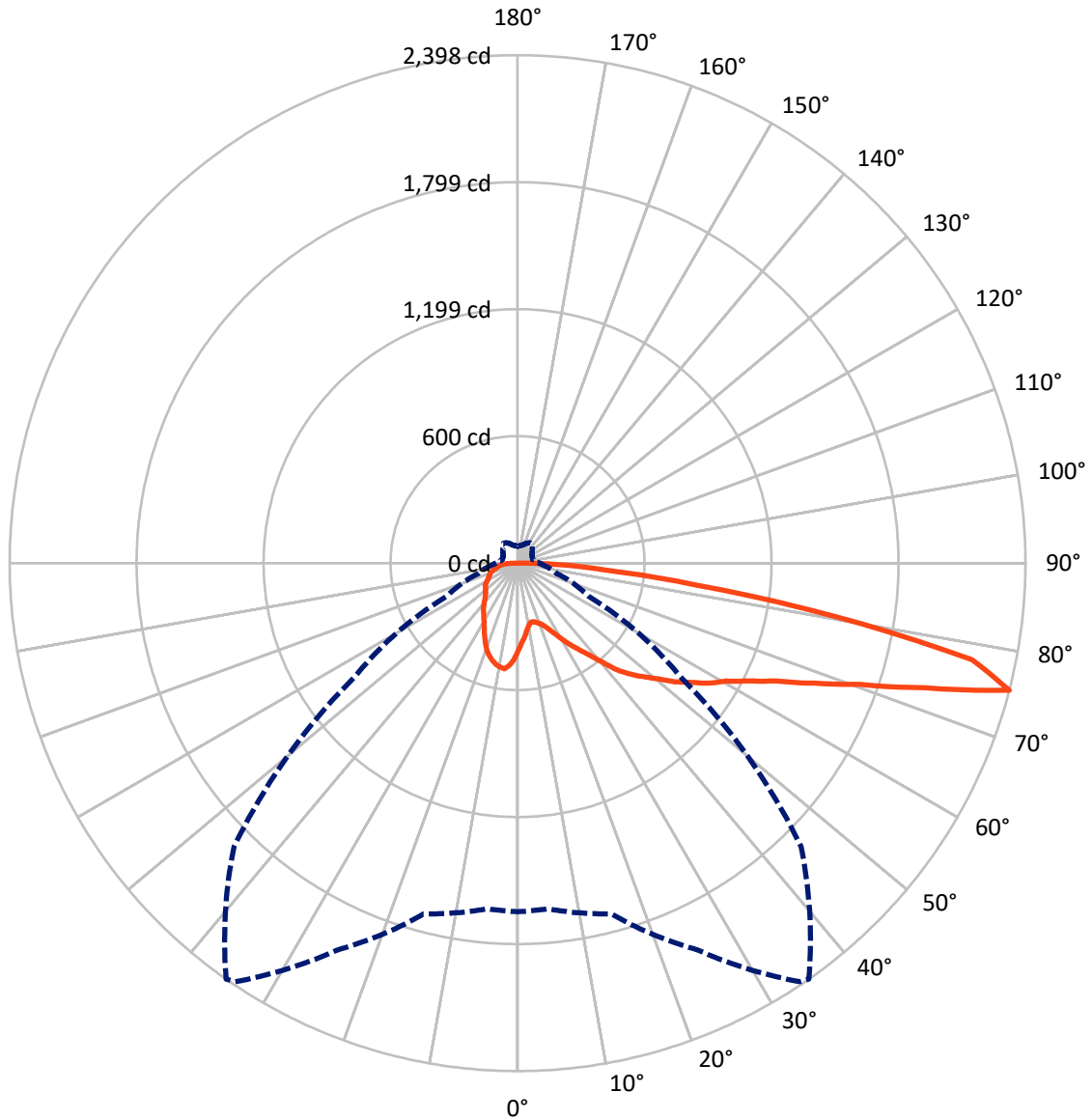
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 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	692.2	0.0	692.2
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	2319.6	0.0	2319.6
	% Fixture	77.0	0.0	77.0
Total	Lumens	3011.7	0.0	3011.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	1.3
10°-20°	114.1	3.8
20°-30°	189.3	6.3
30°-40°	280.7	9.3
40°-50°	404.7	13.4
50°-60°	556.5	18.5
60°-70°	687.4	22.8
70°-80°	628.9	20.9
80°-90°	110.7	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°	3011.7	100.0
0°-180°	3011.7	100.0



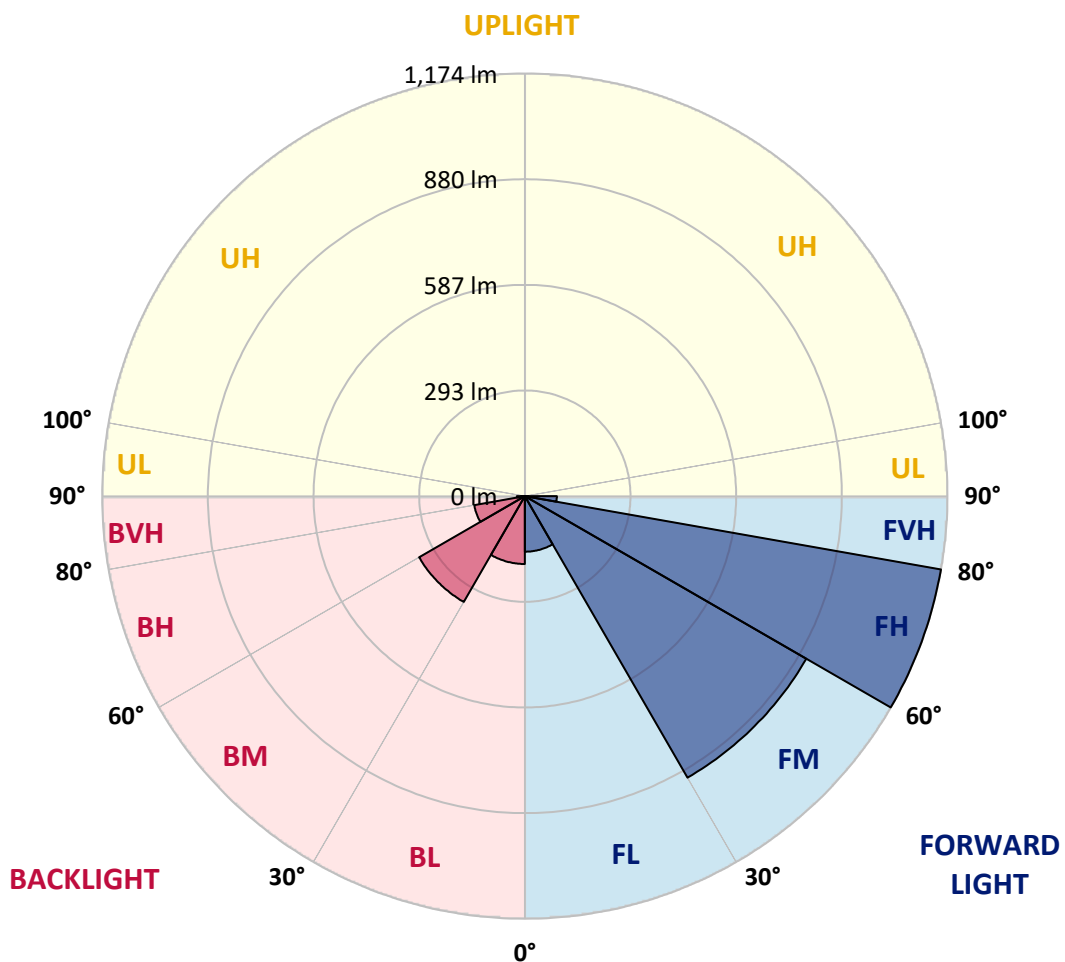
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.4	5.1			
FM (30°-60°)	902.7	30.0			
FH (60°-80°)	1173.6	39.0			G1/1800
FVH (80°-90°)	88.9	3.0			G1/100
BL (0°-30°)	188.4	6.3	B1/500		
BM (30°-60°)	339.2	11.3	B1/1000		
BH (60°-80°)	142.7	4.7	B1/500		G1/500
BVH (80°-90°)	21.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6
2.5°	373.8	370.5	373.8	376.0	376.0	376.0	379.4	389.3	396.0	400.4	408.2
5°	335.0	336.1	338.3	343.9	347.2	349.4	354.9	367.2	377.1	391.6	408.2
7.5°	300.6	302.8	306.1	311.7	319.5	318.3	330.5	347.2	366.0	384.9	409.3
10°	282.8	287.3	288.4	289.5	297.3	297.3	313.9	332.8	356.1	380.5	409.3
12.5°	286.2	286.2	282.8	281.7	286.2	285.1	299.5	321.7	347.2	381.6	413.7
15°	296.2	296.2	289.5	282.8	289.5	287.3	299.5	317.2	347.2	382.7	422.6
17.5°	309.5	310.6	302.8	291.7	293.9	295.1	303.9	320.6	347.2	384.9	434.8
20°	336.1	330.5	318.3	300.6	308.4	305.0	318.3	332.8	353.8	393.8	452.6
22.5°	359.4	359.4	336.1	320.6	321.7	321.7	333.9	346.1	363.8	406.0	465.9
25°	397.1	394.9	366.0	342.7	345.0	346.1	352.7	367.2	380.5	412.6	482.5
27.5°	444.8	439.2	410.4	383.8	374.9	378.2	381.6	392.7	396.0	423.7	502.5
30°	495.8	488.1	463.7	421.5	417.1	418.2	412.6	419.3	414.8	441.5	522.4
32.5°	528.0	528.0	504.7	473.6	461.4	461.4	442.6	447.0	447.0	458.1	557.9
35°	555.7	553.5	538.0	514.7	506.9	502.5	483.6	490.3	479.2	490.3	607.8
37.5°	597.9	591.2	584.6	569.0	553.5	550.2	540.2	544.6	529.1	523.5	664.4
40°	646.7	643.3	636.7	630.0	614.5	613.4	602.3	606.7	590.1	569.0	721.0
42.5°	718.8	708.8	687.7	682.2	685.5	689.9	685.5	677.7	647.8	621.2	782.0
45°	790.9	775.3	735.4	726.5	752.0	748.7	767.6	764.2	715.4	673.3	846.3
47.5°	837.5	824.1	792.0	786.4	797.5	802.0	858.5	848.5	770.9	721.0	908.4
50°	870.7	871.8	829.7	844.1	858.5	858.5	929.5	928.4	838.6	779.8	989.4
52.5°	919.5	904.0	886.3	899.6	919.5	930.6	1018.3	993.9	880.7	829.7	1080.4
55°	945.1	938.4	922.9	946.2	988.3	993.9	1087.0	1068.2	928.4	888.5	1173.5
57.5°	955.0	960.6	986.1	996.1	1054.9	1069.3	1149.1	1122.5	972.8	961.7	1245.6
60°	999.4	991.6	1026.0	1066.0	1122.5	1130.3	1226.8	1169.1	1016.0	1009.4	1268.9
62.5°	1089.2	1069.3	1088.1	1135.8	1214.6	1224.6	1308.9	1231.2	1034.9	1041.6	1267.8
65°	1220.1	1205.7	1178.0	1215.7	1326.6	1341.0	1405.4	1284.5	1029.4	1030.5	1178.0
67.5°	1374.3	1351.0	1322.2	1345.5	1480.8	1514.1	1523.0	1307.8	990.5	968.3	958.4
70°	1509.6	1494.1	1475.3	1515.2	1703.8	1716.0	1669.4	1293.3	882.9	777.6	638.9
72.5°	1636.1	1628.3	1639.4	1789.2	2005.5	2013.2	1806.9	1202.4	697.7	471.4	297.3
75°	1646.1	1638.3	1714.8	2015.4	2383.7	2398.1	1892.3	942.8	368.3	191.9	125.3
77.5°	1114.8	1138.1	1281.1	1764.8	2189.6	2192.9	1547.4	438.1	152.0	113.1	87.6
80°	274.0	303.9	482.5	912.9	1476.4	1513.0	847.4	147.5	99.8	86.5	65.4
82.5°	99.8	108.7	196.3	412.6	829.7	844.1	296.2	79.9	72.1	66.6	47.7
85°	47.7	48.8	93.2	203.0	419.3	414.8	106.5	47.7	52.1	45.5	28.8
87.5°	20.0	20.0	41.0	94.3	185.2	179.7	34.4	22.2	29.9	26.6	14.4
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°	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6
2.5°	413.7	416.0	424.8	431.5	438.1	443.7	452.6	452.6	458.1	458.1	458.1
5°	412.6	424.8	439.2	454.8	464.8	474.7	483.6	484.7	488.1	492.5	493.6
7.5°	417.1	429.3	452.6	474.7	486.9	491.4	502.5	499.1	499.1	499.1	502.5
10°	425.9	439.2	471.4	491.4	500.3	501.4	498.0	495.8	489.2	486.9	483.6
12.5°	432.6	455.9	488.1	503.6	500.3	496.9	489.2	478.1	470.3	468.1	468.1
15°	449.2	472.5	502.5	508.0	502.5	484.7	474.7	462.5	455.9	445.9	450.3
17.5°	463.7	490.3	516.9	510.2	499.1	471.4	457.0	439.2	430.4	419.3	419.3
20°	482.5	506.9	530.2	512.5	488.1	458.1	434.8	412.6	400.4	389.3	391.6
22.5°	503.6	525.8	538.0	503.6	471.4	437.0	404.9	383.8	368.3	361.6	363.8
25°	520.2	544.6	542.4	489.2	451.5	410.4	374.9	354.9	351.6	345.0	345.0
27.5°	541.3	566.8	539.1	471.4	418.2	368.3	346.1	338.3	338.3	335.0	337.2
30°	569.0	586.8	531.3	445.9	376.0	330.5	319.5	323.9	331.7	328.3	329.4
32.5°	614.5	612.3	524.7	417.1	331.7	293.9	301.7	310.6	317.2	320.6	322.8
35°	658.9	644.5	516.9	378.2	290.6	276.2	282.8	292.8	305.0	308.4	309.5
37.5°	703.2	677.7	503.6	330.5	265.1	260.7	267.3	272.9	282.8	285.1	287.3
40°	749.8	699.9	480.3	284.0	244.0	244.0	248.5	249.6	255.1	258.4	260.7
42.5°	790.9	721.0	438.1	240.7	221.8	229.6	230.7	228.5	224.1	226.3	227.4
45°	840.8	744.3	389.3	209.6	205.2	215.2	217.4	208.5	200.8	196.3	194.1
47.5°	889.6	768.7	347.2	184.1	189.7	205.2	205.2	195.2	181.9	170.8	166.4
50°	934.0	793.1	312.8	168.6	174.1	197.4	199.7	180.8	166.4	153.1	150.9
52.5°	1008.3	834.1	277.3	156.4	165.3	191.9	190.8	174.1	155.3	140.9	139.8
55°	1073.7	875.2	230.7	144.2	156.4	184.1	187.5	167.5	142.0	128.7	126.5
57.5°	1121.4	885.2	184.1	132.0	147.5	175.3	179.7	154.2	133.1	122.0	120.9
60°	1130.3	846.3	149.7	122.0	135.3	163.1	166.4	146.4	126.5	117.6	115.4
62.5°	1089.2	772.0	127.6	113.1	125.3	150.9	157.5	137.5	119.8	112.0	110.9
65°	996.1	663.3	112.0	105.4	118.7	142.0	149.7	130.9	114.2	107.6	106.5
67.5°	788.7	509.1	99.8	99.8	109.8	133.1	144.2	126.5	108.7	104.3	103.2
70°	515.8	306.1	91.0	92.1	103.2	125.3	137.5	120.9	102.0	100.9	98.7
72.5°	221.8	140.9	81.0	84.3	93.2	112.0	127.6	113.1	94.3	91.0	87.6
75°	102.0	85.4	73.2	75.4	83.2	98.7	115.4	104.3	87.6	82.1	78.8
77.5°	72.1	62.1	61.0	65.4	71.0	85.4	102.0	97.6	81.0	76.5	74.3
80°	53.2	47.7	51.0	55.5	58.8	78.8	96.5	89.8	74.3	67.7	64.3
82.5°	37.7	35.5	39.9	44.4	47.7	68.8	88.7	78.8	62.1	56.6	51.0
85°	22.2	23.3	27.7	29.9	33.3	51.0	74.3	63.2	47.7	36.6	35.5
87.5°	10.0	10.0	13.3	14.4	16.6	29.9	49.9	39.9	29.9	23.3	22.2
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)