

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: P400726

Luminaire Tested: **ENT-SA1-727-U-T4FT-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1-727-U-T4FT-XXB
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K LIGHTSQUARE IN BATTERY OPERATION WITH 16 LEDS AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 618 lumens
Efficiency: N/A
Efficacy: 47.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G0

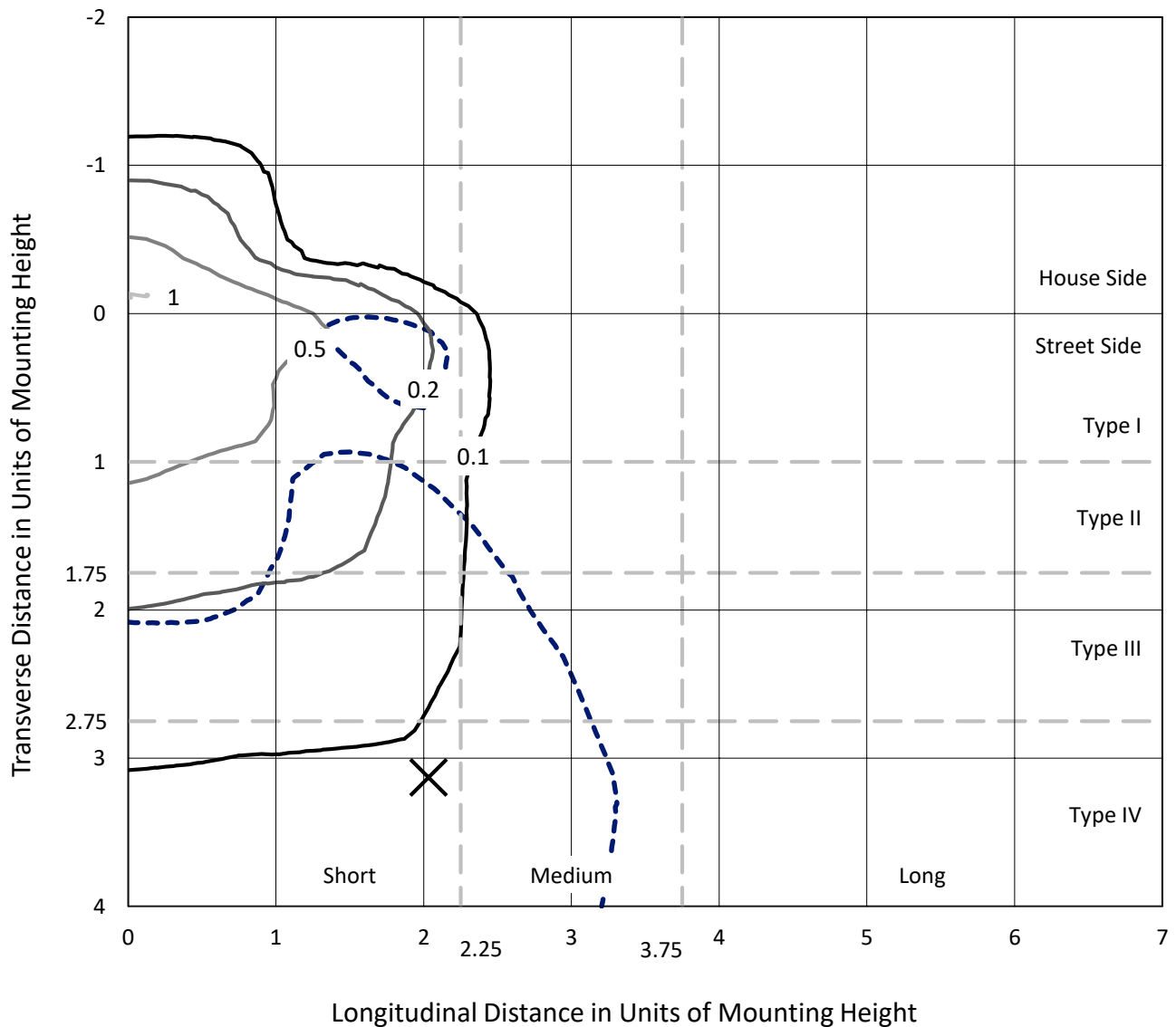
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

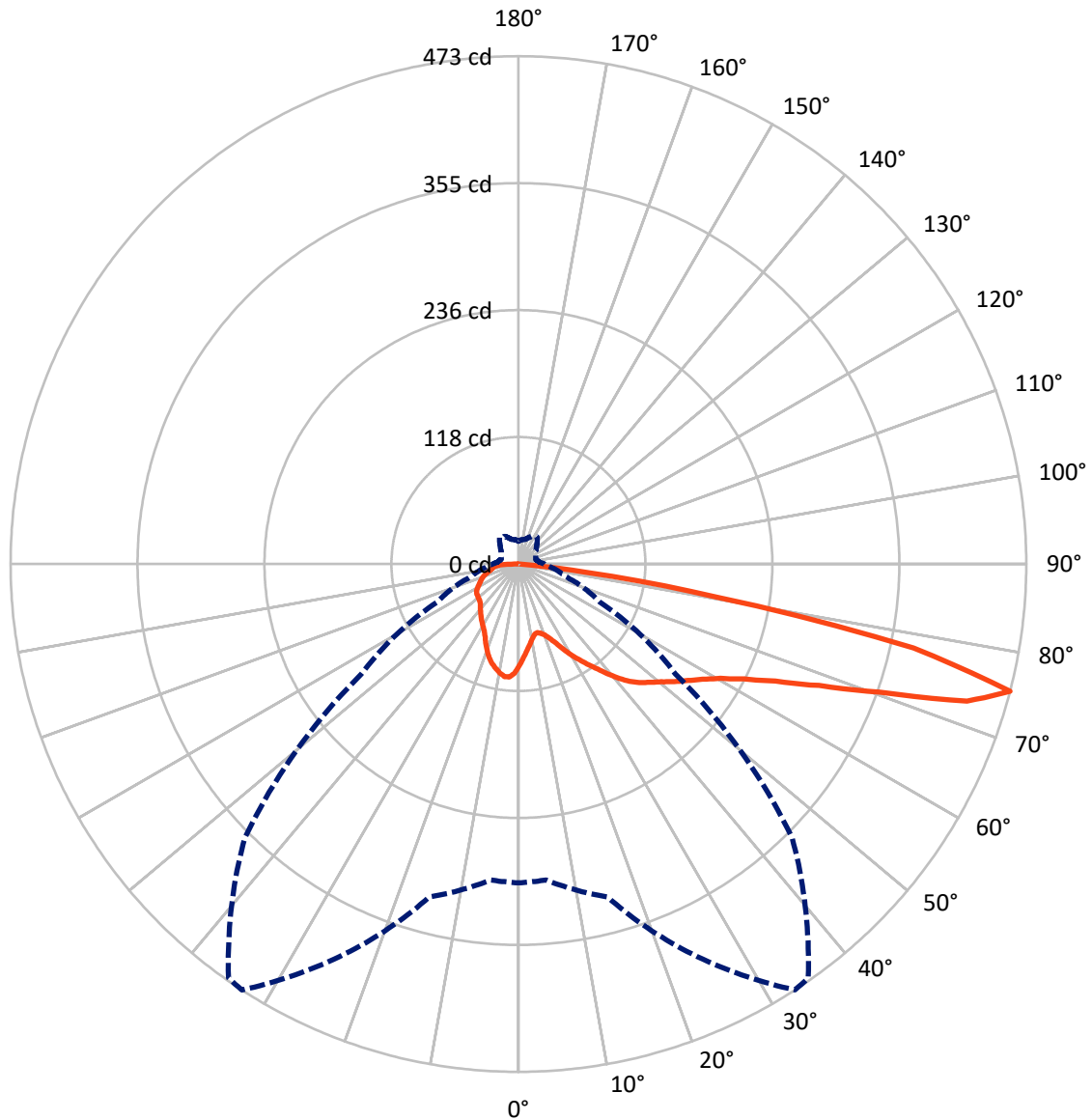
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	150.1	0.0	150.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	467.9	0.0	467.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	618.0	0.0	618.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	1.4
10°-20°	24.9	4.0
20°-30°	41.4	6.7
30°-40°	61.7	10.0
40°-50°	86.2	14.0
50°-60°	115.1	18.6
60°-70°	142.7	23.1
70°-80°	123.4	20.0
80°-90°	13.8	2.2
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°	618.0	100.0
0°-180°	618.0	100.0



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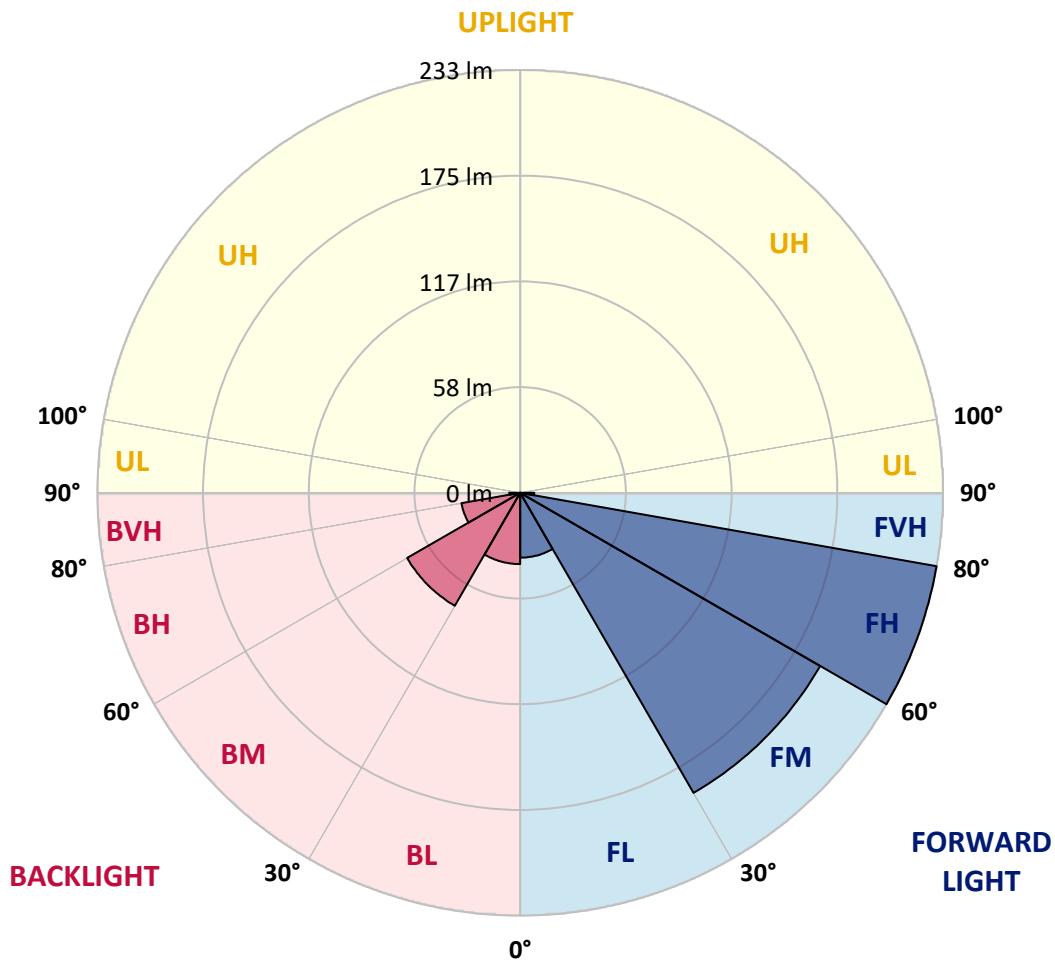
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	35.8	5.8			
FM	(30°-60°)	191.1	30.9			
FH	(60°-80°)	233.2	37.7			G0/660
FVH	(80°-90°)	7.8	1.3			G0/10
BL	(0°-30°)	39.3	6.4	B0/110		
BM	(30°-60°)	71.9	11.6	B0/220		
BH	(60°-80°)	32.9	5.3	B0/110		G0/110
BVH	(80°-90°)	6.0	1.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
2.5°	85.9	86.1	86.6	87.3	87.6	87.6	88.6	89.8	91.3	92.6	94.0
5°	78.7	79.0	79.5	80.3	81.3	81.5	83.5	85.6	88.3	91.1	93.9
7.5°	71.7	72.2	73.1	74.2	75.8	76.2	79.0	81.8	85.5	89.8	94.3
10°	66.3	66.6	67.1	68.6	70.6	71.2	75.0	78.5	83.6	88.9	94.9
12.5°	64.8	64.8	64.8	65.5	67.1	67.6	71.6	76.2	81.8	88.3	95.7
15°	66.9	66.8	65.8	65.2	66.2	66.6	70.0	74.5	80.9	88.5	97.3
17.5°	71.7	71.4	69.0	67.2	67.8	68.1	70.3	74.1	80.7	89.2	99.6
20°	77.9	77.3	73.6	70.8	70.7	70.9	72.6	75.2	81.1	90.5	102.0
22.5°	86.2	85.8	80.4	76.2	75.4	75.4	76.2	77.8	82.3	91.9	105.4
25°	96.8	95.8	89.3	83.6	81.9	81.5	81.4	81.4	84.4	94.1	109.7
27.5°	107.7	106.5	99.9	92.2	90.0	89.2	87.7	86.6	87.2	96.5	114.7
30°	117.5	115.9	110.3	102.3	99.0	97.7	95.1	92.8	91.3	99.8	121.4
32.5°	123.0	122.3	118.5	111.2	107.5	106.9	102.5	99.5	96.9	104.1	130.4
35°	130.2	129.4	126.9	120.9	116.4	115.1	111.8	108.2	104.1	109.9	141.8
37.5°	136.9	136.4	135.5	131.4	126.6	125.3	122.2	118.5	112.9	118.5	154.5
40°	143.7	143.1	142.8	141.3	137.9	137.0	135.5	131.1	123.6	127.8	167.1
42.5°	153.6	152.4	148.6	148.5	148.7	149.5	149.6	144.7	135.3	139.5	178.1
45°	166.5	163.2	154.6	154.3	157.6	159.5	164.2	160.0	147.5	151.4	190.4
47.5°	173.2	169.8	160.9	160.3	164.5	167.4	178.9	174.9	160.2	164.8	203.2
50°	176.4	174.2	166.4	168.1	172.4	175.2	193.0	189.8	173.3	179.3	219.2
52.5°	180.9	177.2	171.7	175.4	181.8	184.6	205.5	205.0	184.4	195.1	236.8
55°	179.3	177.4	178.4	183.3	191.4	195.6	218.2	218.2	195.7	212.0	254.3
57.5°	180.6	179.3	187.6	192.1	202.2	208.3	233.4	229.4	205.3	226.1	266.0
60°	191.5	187.8	194.3	203.1	216.2	222.1	250.9	241.1	213.1	238.3	268.1
62.5°	210.8	207.8	208.5	218.5	235.5	242.2	268.1	251.5	218.3	243.4	260.2
65°	242.7	241.3	233.4	239.5	262.9	269.0	289.7	260.5	216.8	239.6	239.4
67.5°	285.6	280.1	269.5	274.9	301.9	308.1	315.7	263.9	207.3	216.6	192.4
70°	321.3	316.7	311.8	326.0	357.0	360.4	342.7	260.7	184.1	169.5	129.0
72.5°	343.9	340.6	345.1	387.0	436.6	430.2	369.4	238.2	143.6	103.8	64.5
75°	296.8	295.3	321.0	405.9	472.8	470.5	360.2	178.3	83.3	45.7	29.4
77.5°	149.3	166.3	193.3	287.9	376.2	376.7	262.4	85.7	35.1	25.6	20.2
80°	42.0	42.6	64.5	118.7	187.8	200.1	99.3	29.1	20.0	19.1	15.0
82.5°	10.0	9.3	16.5	35.1	63.0	65.6	29.8	10.5	11.2	11.9	9.3
85°	0.1	0.1	0.1	0.1	0.1	0.2	1.1	1.1	2.7	3.4	2.7
87.5°	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
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°	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
2.5°	94.6	95.5	97.0	98.3	99.4	100.2	101.5	101.7	102.0	102.2	102.4
5°	95.4	97.2	99.9	102.3	104.0	104.4	105.5	105.4	105.5	105.5	105.4
7.5°	96.5	98.9	102.8	105.4	106.3	106.1	105.8	104.8	104.0	103.6	103.1
10°	97.9	100.7	105.2	107.1	106.6	105.2	103.4	101.6	100.1	99.4	99.2
12.5°	99.3	102.9	107.1	107.6	105.8	103.1	100.2	98.2	96.3	95.2	95.2
15°	101.6	105.5	108.6	107.5	104.2	100.8	96.8	94.1	91.9	90.5	90.4
17.5°	104.3	108.6	110.3	107.1	102.3	97.5	92.7	89.1	86.3	84.9	84.1
20°	107.7	111.7	111.1	105.6	99.5	93.6	87.5	83.2	80.3	78.8	78.5
22.5°	111.6	114.9	111.4	103.2	95.6	88.1	81.5	77.2	75.2	74.1	74.2
25°	116.3	118.8	111.5	100.4	90.1	80.8	75.1	73.0	72.8	72.3	72.5
27.5°	122.1	123.0	111.1	96.5	83.0	73.2	69.8	70.7	71.4	71.1	71.3
30°	129.1	127.9	110.3	90.9	74.3	66.3	66.4	68.3	69.3	69.0	69.1
32.5°	137.3	132.9	108.7	84.1	66.1	62.0	63.5	65.3	66.3	66.3	66.4
35°	146.4	138.8	105.7	75.3	60.3	59.5	60.7	62.2	62.9	62.5	62.8
37.5°	156.1	144.0	100.8	65.5	56.0	57.4	58.2	58.5	58.5	57.9	57.6
40°	165.1	148.0	92.1	55.8	52.4	55.3	55.7	54.7	53.5	52.5	51.8
42.5°	172.0	150.1	80.0	48.7	49.0	52.9	53.2	51.2	48.9	47.3	47.0
45°	179.0	150.9	68.0	43.0	45.3	50.6	51.3	48.5	45.4	43.6	43.3
47.5°	187.1	152.7	56.2	39.1	42.2	48.9	50.1	46.7	43.2	40.5	40.0
50°	197.9	156.2	47.3	36.1	40.0	48.1	49.7	45.2	40.8	37.8	37.4
52.5°	211.7	161.3	39.0	33.7	38.3	46.8	49.2	43.8	39.1	35.4	34.9
55°	223.5	163.2	33.7	31.7	36.4	45.2	48.7	43.2	37.2	33.0	32.4
57.5°	228.9	157.7	29.9	29.6	34.5	43.3	47.8	41.4	35.1	31.8	31.3
60°	226.5	144.1	27.1	27.8	32.3	40.8	45.4	39.5	33.6	30.9	30.4
62.5°	215.5	128.3	25.0	26.1	29.8	37.7	42.7	37.9	32.3	29.9	29.2
65°	196.1	110.9	23.4	24.5	27.6	34.7	40.5	36.0	30.8	28.4	27.8
67.5°	160.0	88.3	21.7	22.9	25.8	32.2	38.4	34.4	29.2	27.6	27.1
70°	105.9	59.4	20.2	21.4	23.9	29.8	36.3	32.8	27.6	26.6	25.9
72.5°	48.6	31.9	18.5	19.7	21.8	27.2	33.7	30.3	25.5	24.9	23.8
75°	24.0	19.6	16.5	17.6	19.3	23.9	30.6	28.2	23.6	22.5	21.2
77.5°	17.5	14.7	14.2	15.3	16.7	21.2	27.3	26.0	21.7	20.1	19.4
80°	13.0	11.4	11.9	13.0	14.3	19.2	25.5	24.3	20.0	18.4	17.9
82.5°	8.0	7.6	9.2	10.5	12.0	17.6	24.3	22.2	18.0	16.5	15.9
85°	2.3	2.8	4.7	6.8	8.5	14.2	22.7	19.5	15.1	12.7	12.2
87.5°	0.0	0.3	1.5	3.1	5.0	9.5	17.4	15.2	11.6	9.4	9.0
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)