

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: P400732

Luminaire Tested: **ENV-SA1-730-U-SL3-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1-730-U-SL3-XXB
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K LIGHTSQUARE IN BATTERY OPERATION WITH 16 LEDS AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 690.1 lumens
Efficiency: N/A
Efficacy: 53.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - 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

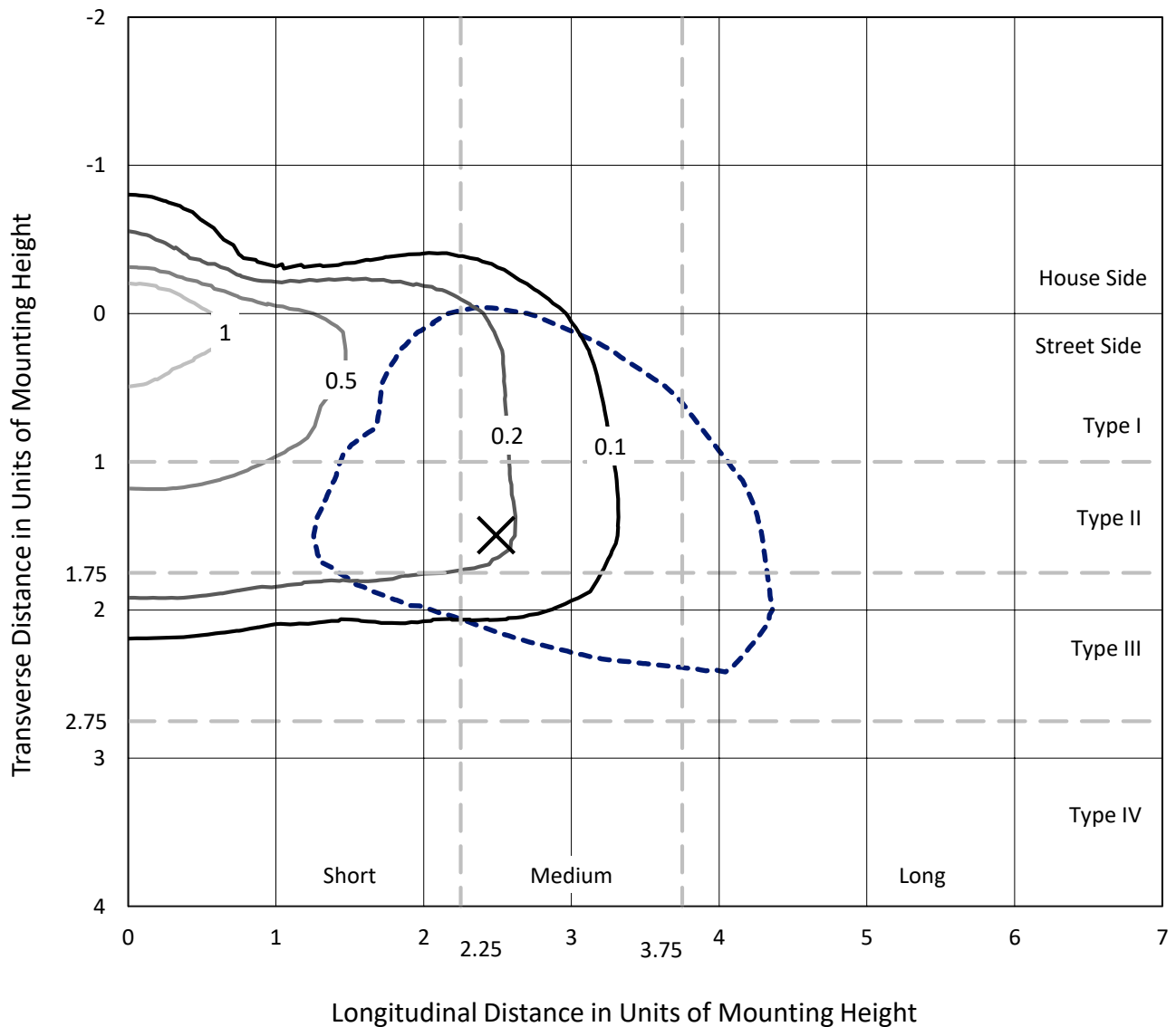


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

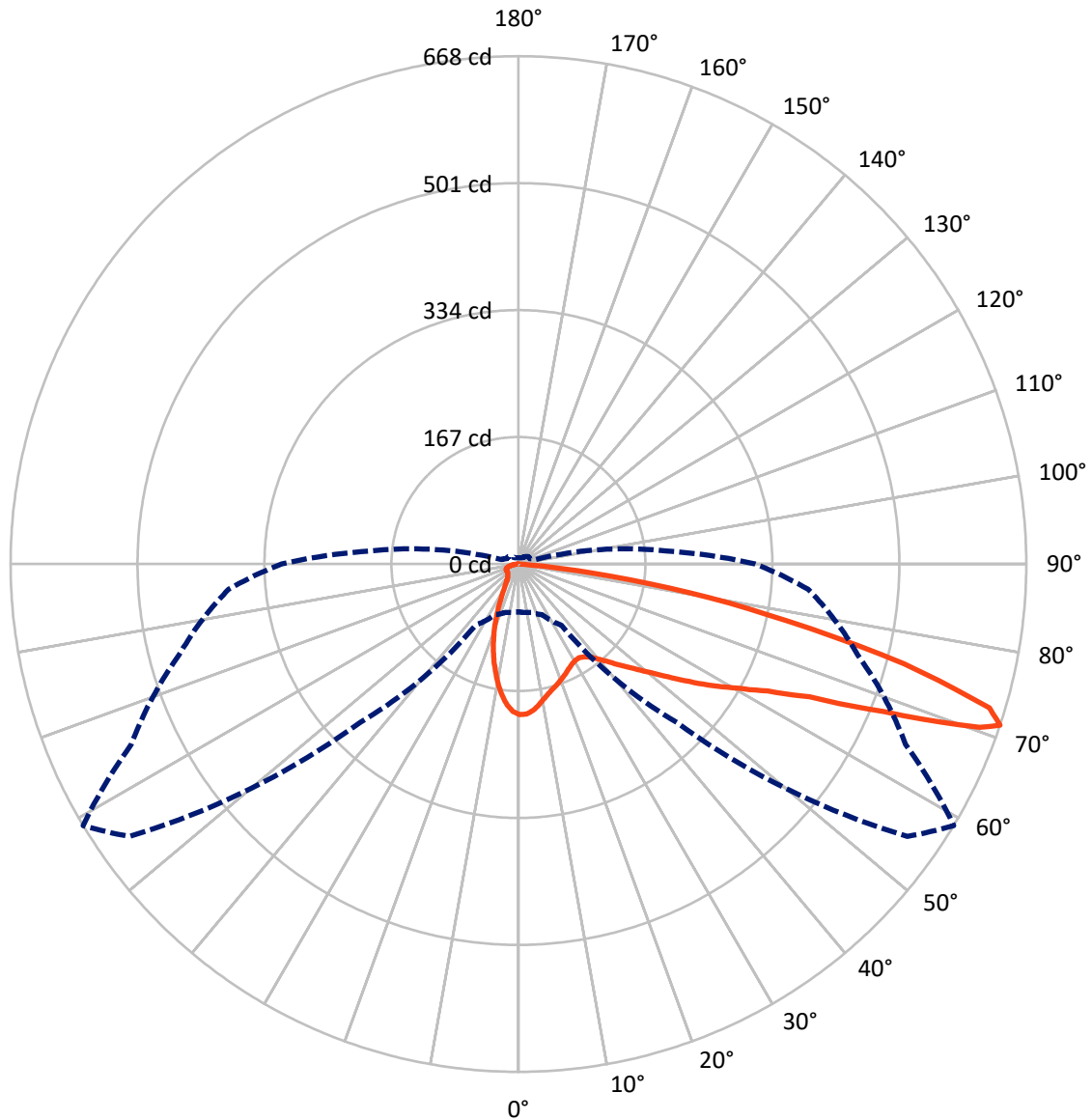


Based on 10 foot mounting height. Maximum calculated value = 2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	117.1	0.0	117.1
	% Fixture	17.0	0.0	17.0
Street Side	Lumens	572.9	0.0	572.9
	% Fixture	83.0	0.0	83.0
Total	Lumens	690.1	0.0	690.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.1	2.5
10°-20°	38.4	5.6
20°-30°	48.8	7.1
30°-40°	62.4	9.0
40°-50°	86.7	12.6
50°-60°	128.3	18.6
60°-70°	173.4	25.1
70°-80°	123.0	17.8
80°-90°	11.9	1.7
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°	690.1	100.0
0°-180°	690.1	100.0



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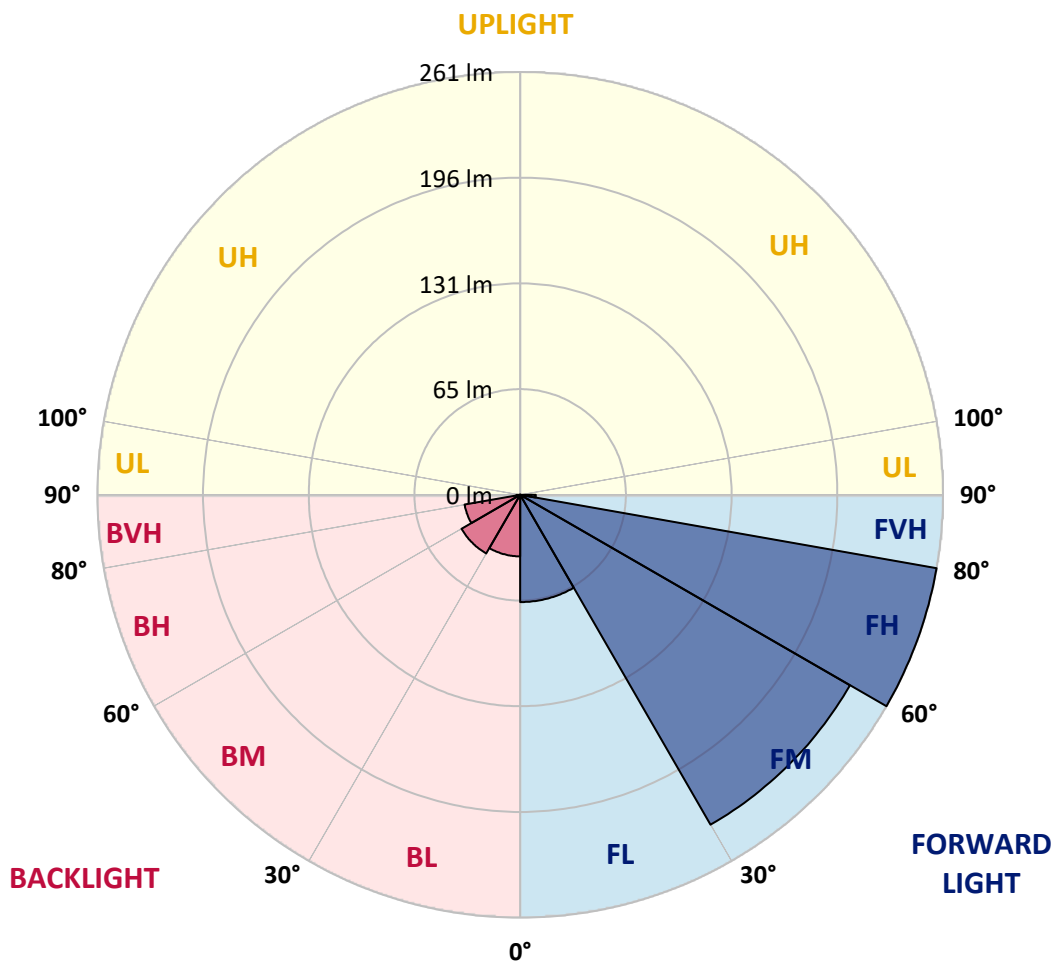
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	66.3	9.6			
FM (30°-60°)	235.5	34.1			
FH (60°-80°)	261.4	37.9			G0/660
FVH (80°-90°)	9.7	1.4			G0/10
BL (0°-30°)	38.1	5.5	B0/110		
BM (30°-60°)	41.9	6.1	B0/220		
BH (60°-80°)	34.9	5.1	B0/110		G0/110
BVH (80°-90°)	2.3	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0
2.5°	196.3	197.0	197.3	197.8	197.8	198.0	197.8	197.7	198.1	197.7	196.6
5°	187.6	187.9	188.8	189.8	190.8	192.9	193.5	193.9	194.8	195.0	193.9
7.5°	175.8	176.9	178.1	179.4	181.5	184.4	186.9	187.9	189.6	190.6	189.0
10°	165.8	166.4	167.0	169.3	172.6	176.6	179.2	181.1	183.8	185.1	183.6
12.5°	155.8	156.3	157.5	160.6	164.0	168.8	173.5	175.0	178.2	180.8	179.6
15°	148.1	148.1	149.0	152.4	156.0	162.4	167.9	170.2	174.2	177.9	176.4
17.5°	141.3	141.6	142.2	144.4	149.4	156.1	163.1	166.0	171.0	175.8	173.8
20°	137.5	137.3	137.7	138.8	142.8	149.9	158.3	161.7	167.9	174.5	171.3
22.5°	136.2	136.0	135.7	135.6	138.2	144.2	153.2	157.4	165.1	173.8	169.0
25°	137.2	137.2	136.3	134.6	135.8	139.9	148.6	153.1	162.0	173.3	166.9
27.5°	139.9	139.9	138.6	136.4	135.9	137.7	144.6	149.4	159.4	173.6	165.2
30°	143.6	143.5	142.2	140.3	138.8	138.2	142.7	147.1	157.6	174.9	164.4
32.5°	147.8	147.6	147.0	145.7	143.9	141.3	142.9	146.8	157.2	177.2	164.5
35°	152.8	152.5	152.8	152.1	150.4	147.6	146.6	149.7	159.2	181.5	166.2
37.5°	157.2	157.0	158.5	158.9	158.5	154.8	153.5	155.5	163.9	188.3	169.7
40°	160.9	161.1	163.8	166.7	167.3	164.1	163.2	164.9	171.5	196.6	176.0
42.5°	165.0	165.6	169.6	174.8	176.8	174.7	175.2	176.4	181.1	207.9	185.1
45°	169.0	170.3	175.8	182.5	187.6	187.6	189.3	190.5	193.5	222.1	198.4
47.5°	176.0	176.9	182.9	191.0	198.8	201.3	206.0	205.6	207.9	237.7	214.0
50°	185.1	186.6	192.7	201.1	211.0	218.1	223.5	224.3	225.2	253.6	232.5
52.5°	197.7	199.5	204.5	212.3	224.0	235.6	246.9	246.4	245.2	271.0	253.6
55°	210.4	212.3	217.0	223.3	237.1	254.8	273.4	272.7	267.2	288.8	273.2
57.5°	223.3	224.9	229.8	235.3	251.5	277.6	301.4	301.9	290.6	308.6	292.6
60°	228.7	231.1	243.2	253.7	274.1	302.9	330.0	331.3	314.9	328.6	314.0
62.5°	204.3	207.2	227.2	255.7	305.1	351.7	367.2	368.0	344.2	350.7	337.4
65°	151.2	151.1	171.8	214.6	298.9	417.2	433.5	420.9	380.6	380.0	368.3
67.5°	86.6	89.2	95.8	128.0	227.8	429.3	551.5	518.6	445.1	425.6	409.5
70°	69.8	69.2	71.2	79.8	124.2	353.0	628.4	643.4	536.7	462.8	400.2
71°	62.9	63.8	65.8	73.6	98.0	294.5	624.6	667.9	561.7	461.8	382.5
72.5°	54.1	54.3	58.9	68.1	80.5	207.8	577.5	647.7	587.9	448.7	356.5
75°	36.8	37.3	44.5	54.8	73.5	98.7	413.2	523.9	535.1	419.3	294.4
77.5°	21.1	21.5	26.7	40.1	62.6	69.6	253.6	362.0	384.7	306.6	157.9
80°	10.9	11.4	14.8	25.3	47.8	56.3	145.5	227.7	218.9	106.0	36.6
82.5°	2.9	3.3	4.3	9.1	23.1	36.7	64.5	94.2	67.3	22.0	13.3
85°	0.0	0.0	0.0	0.1	0.2	5.1	13.6	16.9	9.4	4.3	3.6
87.5°	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.3	0.4
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°	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0
2.5°	196.4	196.4	195.8	194.9	193.9	191.6	192.0	190.2	190.4	190.2	190.2
5°	193.0	192.4	190.9	188.1	185.0	180.9	180.3	177.0	175.1	174.5	175.2
7.5°	188.3	186.6	182.8	177.9	172.0	166.7	161.8	157.4	154.1	152.7	152.1
10°	182.1	180.0	173.8	165.2	157.1	148.8	141.1	136.1	129.5	127.5	126.9
12.5°	177.0	173.4	164.1	152.1	139.5	128.5	118.1	107.6	101.3	96.8	96.1
15°	172.6	167.5	154.2	138.7	123.0	107.8	93.7	79.6	70.7	66.9	64.2
17.5°	168.7	162.1	144.3	124.2	104.8	84.7	67.5	54.0	48.4	45.5	45.6
20°	164.7	156.3	134.0	109.7	86.8	64.5	47.7	41.4	38.6	38.0	37.7
22.5°	160.9	149.7	123.1	95.4	68.4	47.4	38.4	35.3	34.6	34.6	34.6
25°	156.6	143.0	112.1	80.8	51.8	37.4	33.0	31.9	32.1	32.5	32.6
27.5°	153.1	137.2	101.2	63.9	40.2	31.8	29.5	29.3	30.1	31.0	31.0
30°	150.0	131.9	89.4	49.9	32.0	27.9	27.1	27.4	28.2	29.0	29.3
32.5°	147.9	127.1	78.8	38.8	27.3	25.2	25.0	25.4	26.2	26.6	26.9
35°	147.0	123.6	67.4	31.3	24.3	23.2	23.1	23.4	23.8	23.9	23.8
37.5°	148.0	121.2	55.7	26.5	22.4	21.8	21.7	21.7	21.7	21.8	21.7
40°	150.9	120.3	45.2	23.4	21.2	20.7	20.4	20.1	19.9	19.9	19.8
42.5°	157.0	121.7	36.3	21.6	20.3	19.7	19.1	18.7	18.4	18.3	18.3
45°	166.8	125.6	30.2	20.4	19.5	18.6	17.9	17.5	17.2	17.3	17.2
47.5°	180.3	132.1	26.7	19.6	18.7	17.5	16.8	16.4	16.3	16.6	16.7
50°	195.6	141.3	24.6	19.0	18.1	16.6	15.8	15.5	15.6	16.2	16.3
52.5°	213.6	153.2	23.7	18.6	17.6	15.8	15.1	14.8	15.0	15.7	15.8
55°	233.0	166.8	25.0	18.8	17.1	15.3	14.5	14.1	14.4	15.0	15.1
57.5°	252.6	183.6	29.4	18.9	16.5	14.9	13.9	13.3	13.5	14.0	14.1
60°	272.5	200.3	37.0	19.0	16.3	14.5	13.4	12.5	12.6	12.9	13.0
62.5°	295.9	221.5	47.0	19.4	16.5	14.2	12.5	11.5	11.5	11.7	11.7
65°	331.4	253.0	53.6	19.2	17.0	13.9	11.6	10.6	10.5	10.6	10.6
67.5°	356.9	257.2	37.4	18.1	17.3	14.0	11.1	9.8	9.6	9.5	9.5
70°	329.9	216.5	24.7	17.1	16.8	14.2	10.7	9.3	8.9	8.6	8.5
71°	311.2	195.1	22.9	16.7	16.4	14.0	10.5	9.0	8.6	8.4	8.3
72.5°	283.5	174.1	21.1	16.1	15.5	13.6	10.2	8.7	8.2	7.9	7.8
75°	224.1	133.5	18.5	14.8	13.4	11.2	9.4	8.1	7.6	7.2	7.1
77.5°	101.3	53.1	14.2	12.8	10.9	8.9	8.2	7.5	6.9	6.6	6.5
80°	28.3	20.2	10.4	10.1	8.2	6.9	6.6	6.4	6.2	5.8	5.8
82.5°	13.1	11.8	7.4	7.1	5.6	4.9	5.2	5.3	5.3	4.9	4.8
85°	3.6	3.9	3.4	3.8	3.6	3.3	3.8	4.1	4.3	3.9	3.6
87.5°	0.3	0.7	0.9	1.5	1.8	1.9	2.4	2.9	3.0	2.4	2.5
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)