

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: P400712

Luminaire Tested: **ENV-SA1-727-U-SL2-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1-727-U-SL2-XXB
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K LIGHTSQUARE IN BATTERY OPERATION WITH 16 LEDS AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 638 lumens
Efficiency: N/A
Efficacy: 49.1 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 - G1

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

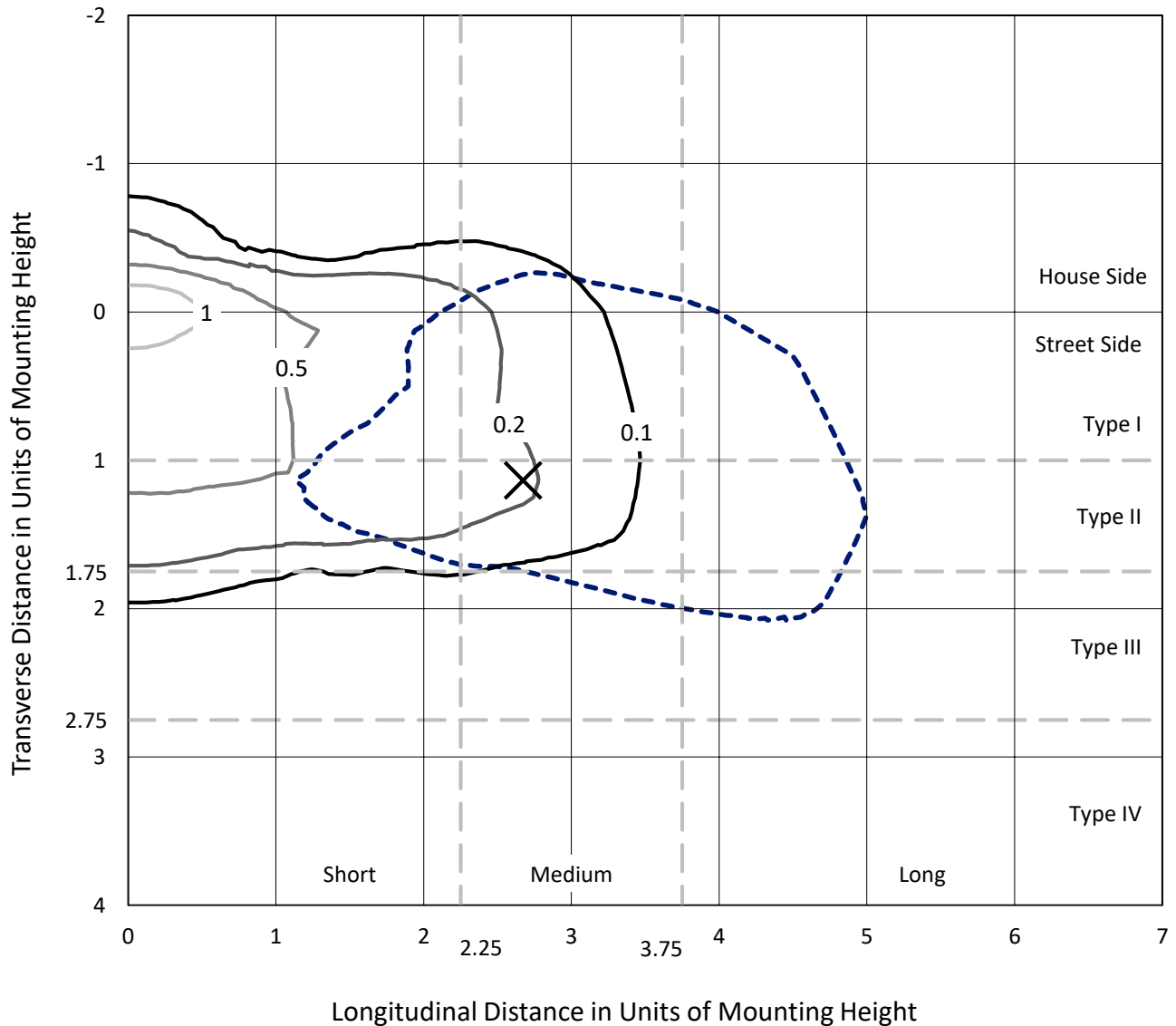


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

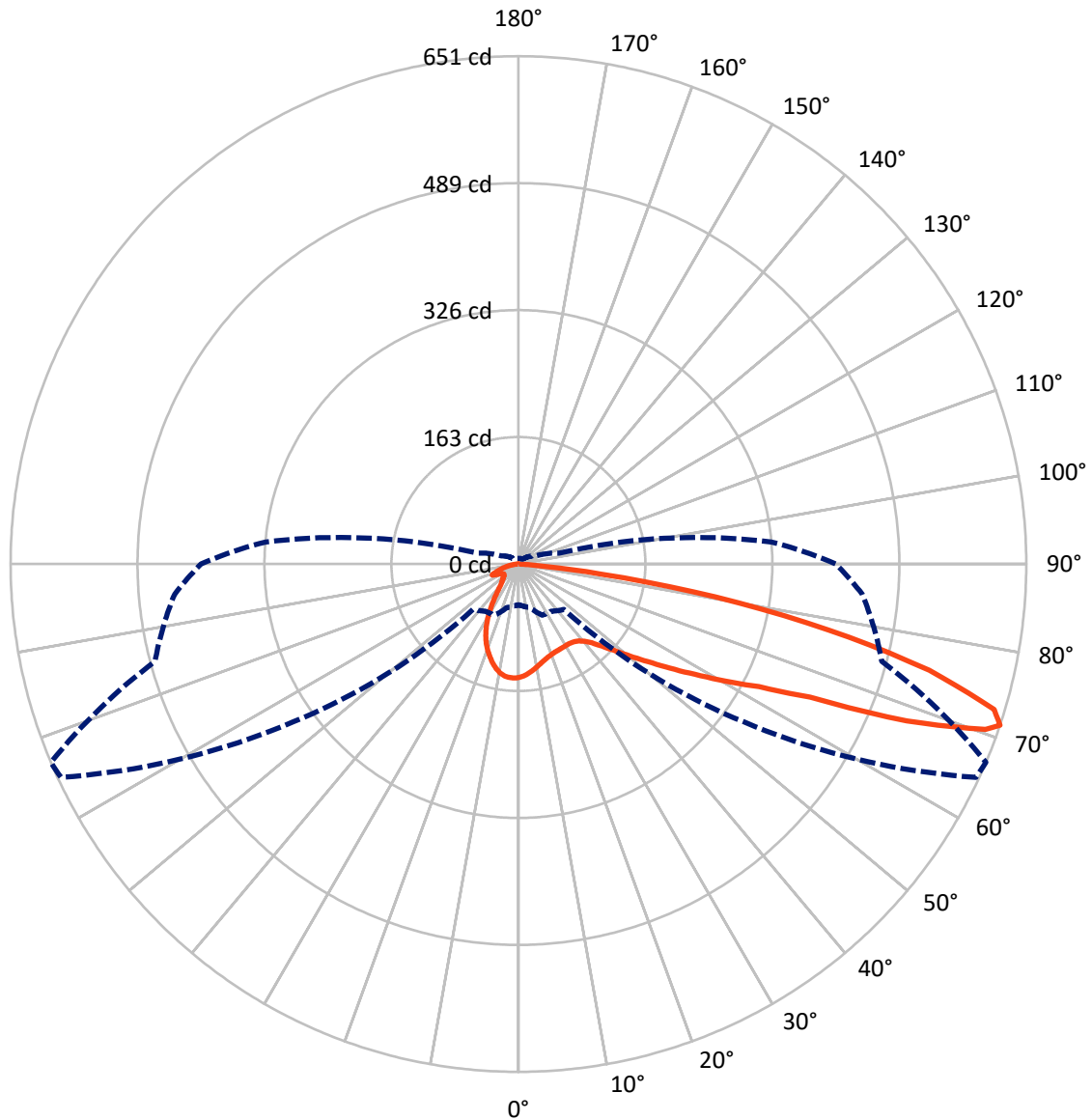


Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	130.7	0.0	130.7
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	507.3	0.0	507.3
	% Fixture	79.5	0.0	79.5
Total	Lumens	638.0	0.0	638.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	2.0
10°-20°	31.7	5.0
20°-30°	42.8	6.7
30°-40°	56.3	8.8
40°-50°	80.2	12.6
50°-60°	122.6	19.2
60°-70°	153.1	24.0
70°-80°	123.5	19.4
80°-90°	14.9	2.3
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°	638.0	100.0
0°-180°	638.0	100.0



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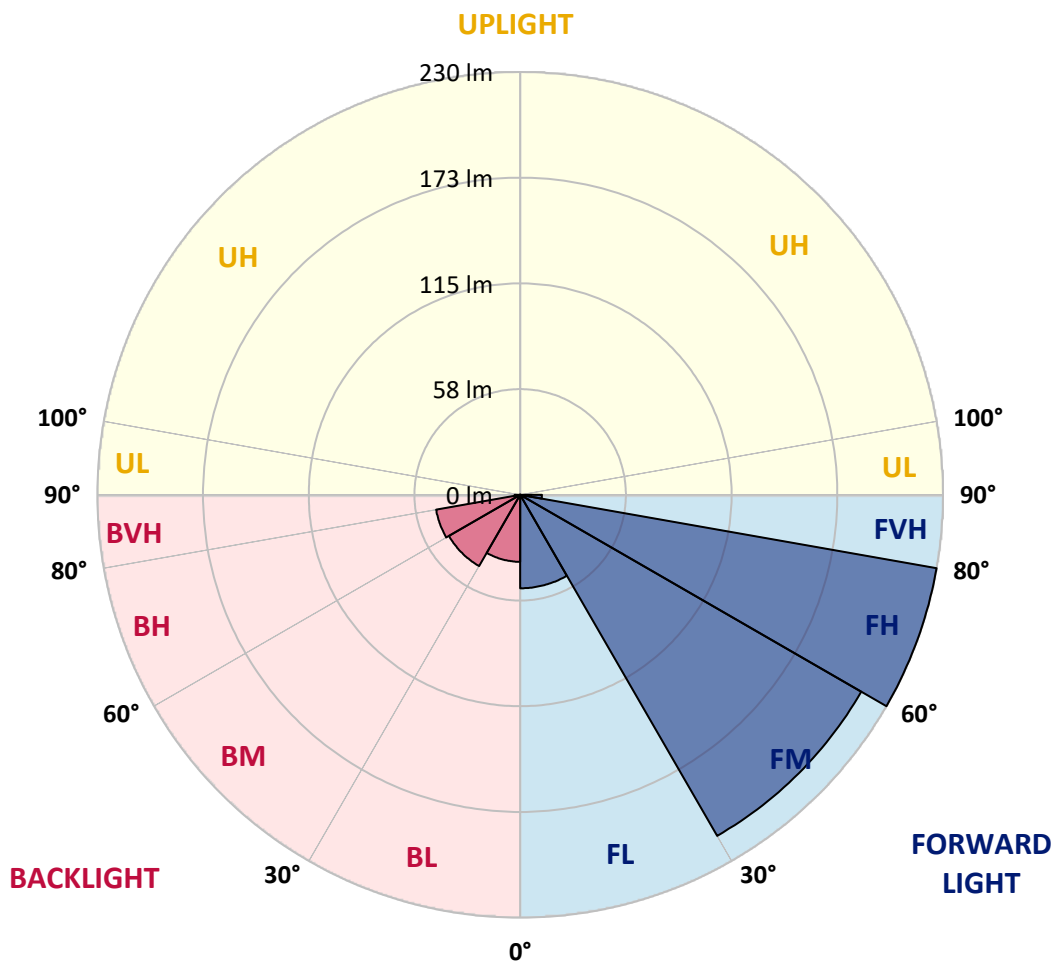
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	50.9	8.0			
FM (30°-60°)	214.4	33.6			
FH (60°-80°)	230.2	36.1			G0/660
FVH (80°-90°)	11.9	1.9			G1/100
BL (0°-30°)	36.5	5.7	B0/110		
BM (30°-60°)	44.8	7.0	B0/220		
BH (60°-80°)	46.4	7.3	B0/110		G0/110
BVH (80°-90°)	3.0	0.5			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5
2.5°	137.2	137.9	137.9	139.2	139.7	141.2	142.0	143.4	143.6	144.4	144.9
5°	128.3	128.4	128.9	130.1	131.8	134.5	136.5	139.9	140.5	142.9	145.0
7.5°	120.3	120.8	121.7	123.3	125.4	128.5	131.6	136.3	137.2	141.1	145.1
10°	114.9	115.4	116.1	117.9	119.9	123.4	127.2	132.6	133.6	139.0	144.8
12.5°	110.6	111.0	111.6	113.6	115.8	119.3	123.2	129.2	130.2	136.4	144.2
15°	107.7	107.8	108.6	110.2	112.7	116.1	119.9	126.2	127.4	134.4	144.0
17.5°	106.0	106.2	106.8	108.1	110.3	113.6	117.4	123.7	125.1	132.7	144.1
20°	106.1	106.3	106.6	107.1	108.7	111.5	115.4	121.9	123.3	131.7	144.7
22.5°	108.0	108.1	108.2	107.5	108.1	110.1	114.0	120.6	122.1	131.2	145.5
25°	111.7	111.7	111.5	110.0	108.8	109.7	113.2	120.1	121.6	130.9	146.2
27.5°	116.7	117.1	116.2	114.4	111.7	110.3	113.0	119.8	121.2	130.9	146.6
30°	123.6	123.8	123.4	121.1	116.6	112.9	113.5	119.5	121.0	130.7	146.7
32.5°	130.6	131.2	131.6	129.6	124.2	117.5	115.7	119.9	121.1	130.6	146.4
35°	137.7	138.0	140.2	139.9	134.0	124.4	119.3	121.3	122.4	131.1	146.6
37.5°	143.7	144.6	147.8	150.3	145.7	133.7	125.5	124.5	125.2	133.4	147.6
40°	150.3	151.5	156.2	160.9	158.9	145.5	134.2	130.3	130.1	137.6	150.1
42.5°	157.6	159.0	165.1	171.9	172.6	160.5	145.8	138.5	138.3	144.8	155.5
45°	166.2	167.5	175.9	184.0	187.9	177.2	160.2	150.1	150.2	154.9	164.1
47.5°	176.9	178.9	187.0	197.3	204.4	196.0	177.5	166.2	165.5	170.2	178.3
50°	191.9	193.5	200.2	210.2	222.6	218.8	199.4	185.7	185.2	187.4	197.2
52.5°	207.6	208.1	211.3	221.7	242.6	246.4	226.3	209.9	207.8	208.9	220.7
55°	208.5	209.7	211.8	224.9	260.5	279.6	256.0	238.3	235.6	234.8	247.4
57.5°	189.4	191.3	194.1	211.1	261.2	317.9	298.1	271.6	266.6	262.5	276.0
60°	148.9	151.4	156.4	177.3	242.6	339.7	368.5	308.9	304.5	290.4	303.9
62.5°	107.6	108.7	113.5	122.9	192.5	341.0	441.8	357.5	346.6	317.6	328.0
65°	86.7	88.4	89.8	89.7	114.0	302.4	490.4	444.2	411.2	348.0	354.4
67.5°	71.5	72.0	75.6	81.8	77.5	186.8	495.3	570.7	537.3	389.0	385.8
70°	59.7	59.9	63.5	74.7	74.2	96.4	415.3	643.6	635.5	456.2	435.0
71°	52.3	53.8	57.8	72.3	73.8	82.4	352.9	647.4	651.4	482.5	442.6
72.5°	41.1	41.1	46.7	66.3	74.5	76.0	260.0	626.4	638.0	512.5	429.4
75°	24.2	24.0	27.0	46.2	76.1	75.8	142.0	520.6	544.2	517.9	397.4
77.5°	13.6	13.9	15.5	25.7	60.4	72.7	81.6	379.0	406.9	433.2	336.1
80°	6.2	6.6	7.8	12.5	35.6	62.8	58.2	246.1	256.7	260.4	158.8
82.5°	1.7	1.8	2.4	4.8	13.8	42.8	43.1	103.0	106.4	61.5	34.1
85°	0.0	0.0	0.0	0.0	0.2	5.2	12.2	18.6	15.4	8.2	7.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.4	0.4	0.4	0.5
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°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5
2.5°	145.4	145.8	146.4	146.3	146.1	145.0	145.7	145.0	144.9	144.7	144.7
5°	145.8	146.3	146.7	145.8	144.5	142.1	141.3	139.1	137.8	137.0	136.7
7.5°	146.3	146.7	146.5	144.2	140.6	136.1	132.3	129.2	126.0	125.5	125.3
10°	146.3	146.7	145.2	140.8	134.6	127.6	121.7	116.7	111.8	109.9	110.2
12.5°	145.9	146.1	142.7	135.7	126.7	117.1	108.8	100.7	94.3	90.5	89.7
15°	145.7	145.4	139.4	129.2	117.4	105.4	92.9	81.9	74.4	69.3	68.7
17.5°	145.7	144.7	135.5	121.9	107.2	90.7	74.2	62.3	53.9	51.0	50.9
20°	145.8	143.6	131.2	114.3	94.5	73.3	55.4	45.2	42.1	41.6	41.7
22.5°	146.0	142.3	126.7	105.6	80.4	54.6	39.6	35.9	36.2	37.3	37.2
25°	145.8	140.4	121.2	96.0	64.9	39.4	32.0	31.0	32.7	34.0	34.3
27.5°	145.4	138.0	115.4	84.5	49.5	31.0	27.9	27.8	29.5	30.7	30.6
30°	144.0	135.2	108.7	72.4	35.7	26.5	25.2	25.4	26.5	27.6	27.6
32.5°	142.5	132.0	101.7	59.1	27.5	24.0	23.5	23.6	24.3	25.2	25.1
35°	141.0	128.9	94.4	45.4	24.1	22.5	22.3	22.2	22.5	22.7	22.7
37.5°	140.1	126.1	86.4	34.2	22.2	21.6	21.2	20.8	20.8	20.6	20.4
40°	140.4	124.3	78.7	26.5	21.1	20.6	20.0	19.5	19.1	18.9	18.8
42.5°	143.0	123.7	70.2	22.8	20.1	19.7	18.9	18.0	17.6	17.6	17.5
45°	149.0	125.4	62.2	20.9	19.2	18.6	17.5	16.8	16.5	16.6	16.6
47.5°	158.3	130.1	55.0	20.0	18.6	17.7	16.3	15.7	15.5	15.6	15.6
50°	172.4	138.9	47.7	19.2	17.8	16.7	15.5	14.8	14.5	14.5	14.5
52.5°	193.0	153.4	42.3	18.6	17.2	15.9	14.7	13.9	13.5	13.5	13.4
55°	218.0	172.3	40.3	18.3	16.3	15.2	13.9	13.0	12.5	12.3	12.4
57.5°	245.5	196.8	43.3	18.2	15.4	14.3	13.0	12.0	11.5	11.4	11.3
60°	273.8	221.2	51.7	17.7	14.7	13.3	12.1	11.2	10.7	10.5	10.4
62.5°	298.2	245.4	65.7	17.4	14.1	12.4	11.1	10.3	9.8	9.6	9.6
65°	327.7	273.2	87.0	17.8	13.9	11.5	10.2	9.5	9.1	8.8	8.8
67.5°	367.9	314.5	103.1	20.0	14.5	10.7	9.2	8.6	8.4	8.2	8.2
70°	407.5	337.6	71.7	23.5	16.2	10.1	8.3	7.9	7.7	7.5	7.5
71°	407.0	325.2	53.9	24.3	16.7	9.9	7.9	7.6	7.4	7.3	7.3
72.5°	386.6	295.6	38.7	23.6	16.4	9.4	7.4	7.2	7.0	7.0	6.9
75°	346.7	260.6	30.2	19.7	13.8	8.4	6.6	6.4	6.2	6.2	6.2
77.5°	284.1	208.5	23.8	15.6	10.5	6.9	5.9	5.6	5.5	5.4	5.5
80°	130.5	90.8	17.4	12.1	7.8	5.5	5.0	4.9	4.8	4.7	4.7
82.5°	31.4	25.4	9.3	8.1	5.3	4.2	3.9	3.9	3.9	3.9	3.9
85°	6.9	6.9	3.8	3.8	3.2	2.9	3.1	3.1	3.1	2.9	2.9
87.5°	0.4	1.1	1.2	1.7	1.8	1.7	2.1	2.2	2.1	2.0	1.9
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)