

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: P400748

Luminaire Tested: **ENV-SA1-735-U-SL2-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400748
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-SA1-735-U-SL2-XXB
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K 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: 716 lumens
Efficiency: N/A
Efficacy: 55.1 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

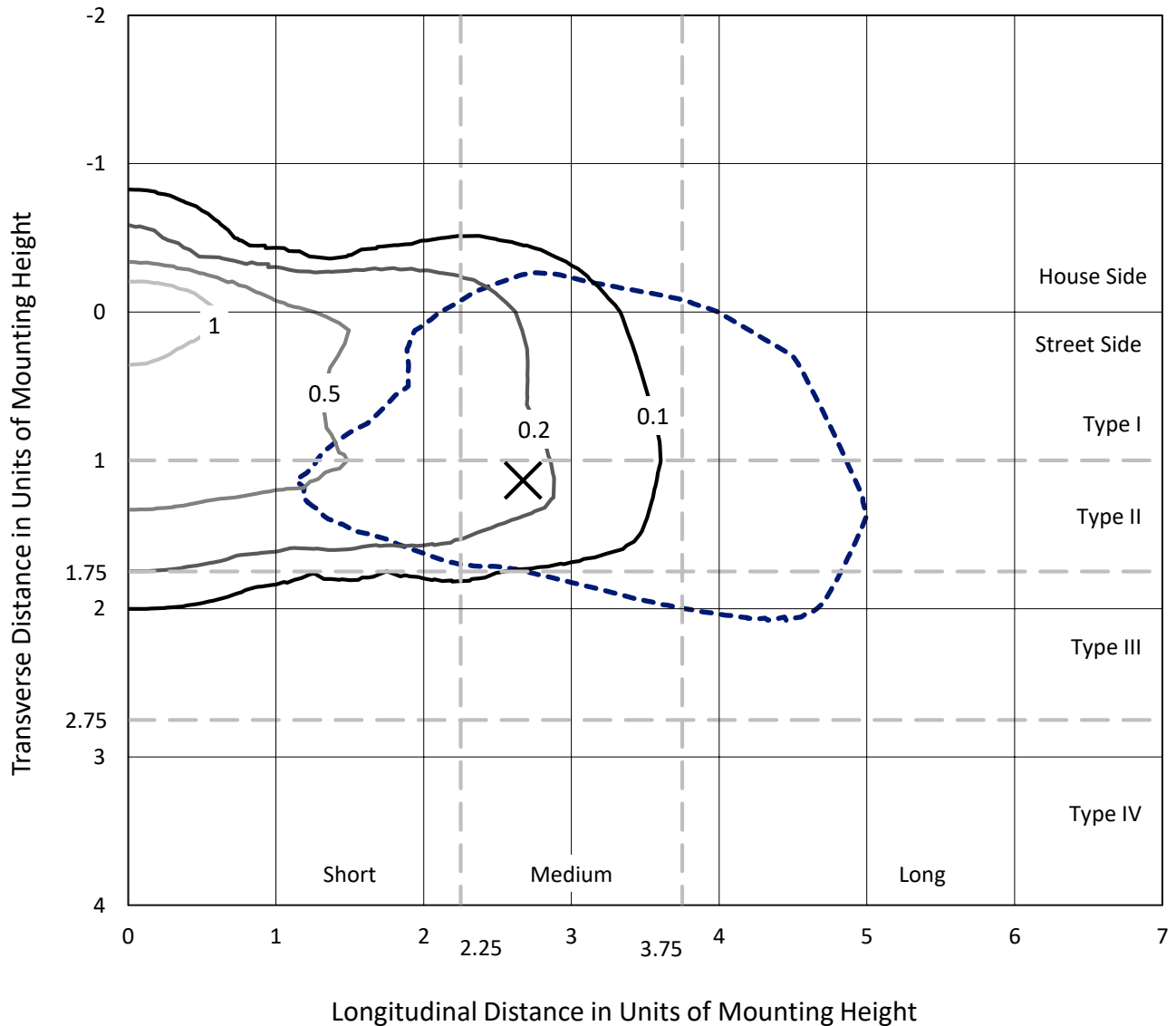


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

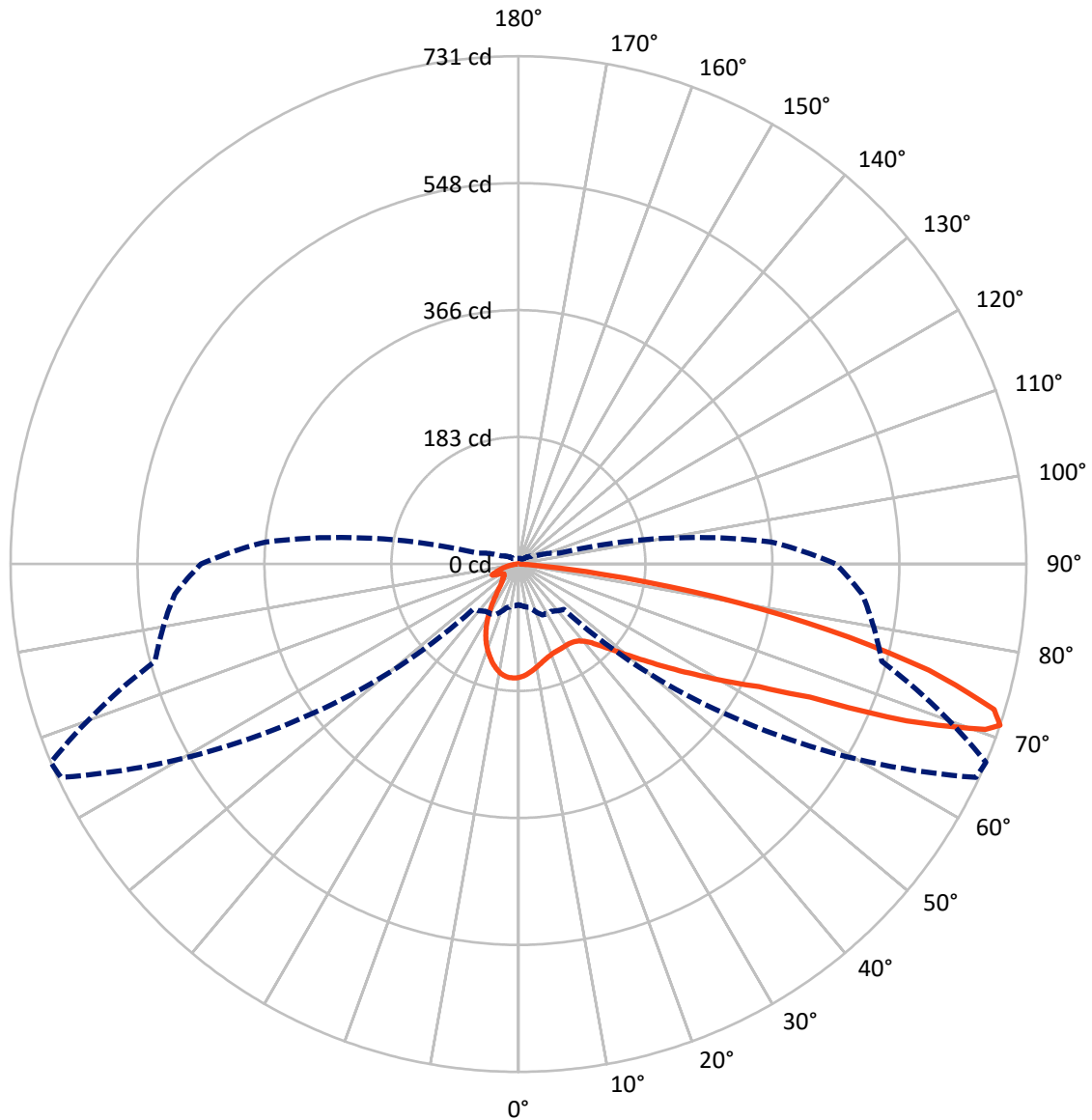


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Medium - Non-Cutoff

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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	146.7	0.0	146.7
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	569.3	0.0	569.3
	% Fixture	79.5	0.0	79.5
Total	Lumens	716.0	0.0	716.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.5	2.0
10°-20°	35.6	5.0
20°-30°	48.0	6.7
30°-40°	63.2	8.8
40°-50°	90.1	12.6
50°-60°	137.6	19.2
60°-70°	171.8	24.0
70°-80°	138.7	19.4
80°-90°	16.7	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°	716.0	100.0
0°-180°	716.0	100.0



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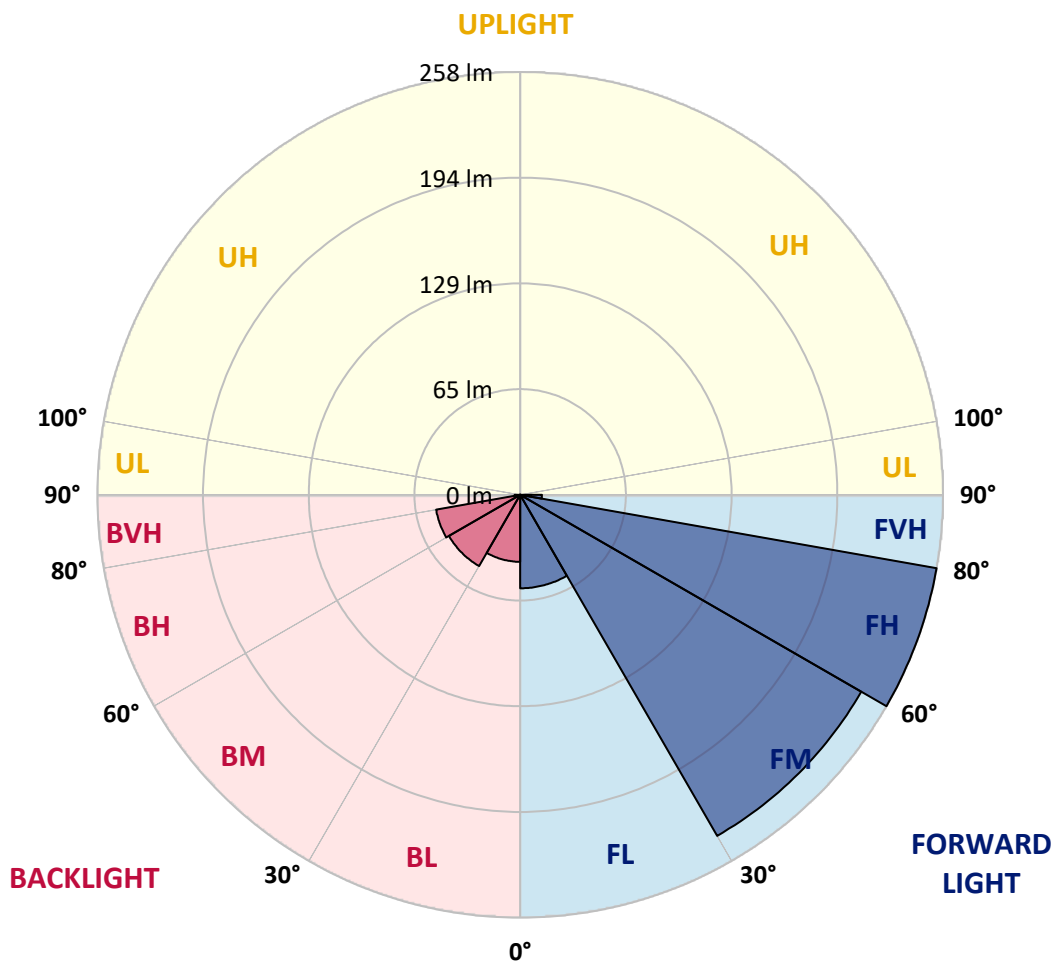
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	57.1	8.0			
FM	(30°-60°)	240.6	33.6			
FH	(60°-80°)	258.3	36.1			G0/660
FVH	(80°-90°)	13.3	1.9			G1/100
BL	(0°-30°)	40.9	5.7	B0/110		
BM	(30°-60°)	50.3	7.0	B0/220		
BH	(60°-80°)	52.1	7.3	B0/110		G0/110
BVH	(80°-90°)	3.4	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°	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3
2.5°	154.0	154.7	154.8	156.3	156.8	158.4	159.4	160.9	161.1	162.0	162.6
5°	144.0	144.1	144.7	146.0	147.9	150.9	153.2	157.0	157.7	160.4	162.8
7.5°	135.0	135.5	136.6	138.4	140.7	144.2	147.7	153.0	154.0	158.3	162.9
10°	128.9	129.5	130.3	132.3	134.6	138.5	142.8	148.8	150.0	155.9	162.5
12.5°	124.1	124.6	125.2	127.5	130.0	133.9	138.2	145.0	146.2	153.1	161.8
15°	120.9	121.0	121.8	123.7	126.5	130.3	134.6	141.6	143.0	150.8	161.6
17.5°	118.9	119.2	119.9	121.3	123.8	127.5	131.7	138.8	140.4	148.9	161.7
20°	119.0	119.3	119.7	120.2	121.9	125.1	129.6	136.8	138.3	147.8	162.4
22.5°	121.2	121.3	121.4	120.7	121.3	123.6	127.9	135.3	137.0	147.3	163.3
25°	125.3	125.3	125.1	123.5	122.1	123.1	127.0	134.8	136.5	146.9	164.1
27.5°	131.0	131.4	130.4	128.4	125.3	123.8	126.8	134.4	136.1	146.9	164.5
30°	138.7	138.9	138.5	136.0	130.9	126.7	127.4	134.1	135.7	146.7	164.6
32.5°	146.6	147.2	147.7	145.4	139.4	131.8	129.9	134.5	136.0	146.6	164.3
35°	154.5	154.9	157.4	157.0	150.4	139.6	133.9	136.2	137.4	147.1	164.5
37.5°	161.3	162.2	165.8	168.6	163.5	150.1	140.8	139.8	140.5	149.7	165.6
40°	168.6	170.0	175.3	180.6	178.3	163.3	150.6	146.3	146.1	154.4	168.4
42.5°	176.9	178.4	185.3	193.0	193.7	180.1	163.7	155.4	155.2	162.5	174.5
45°	186.6	188.0	197.4	206.5	210.9	198.8	179.8	168.4	168.5	173.9	184.2
47.5°	198.5	200.8	209.9	221.4	229.3	220.0	199.2	186.6	185.7	191.0	200.1
50°	215.3	217.2	224.7	235.9	249.8	245.5	223.8	208.4	207.8	210.3	221.3
52.5°	232.9	233.6	237.2	248.8	272.2	276.5	254.0	235.5	233.2	234.5	247.7
55°	234.0	235.3	237.7	252.4	292.3	313.8	287.3	267.5	264.4	263.5	277.7
57.5°	212.5	214.7	217.8	236.9	293.1	356.7	334.6	304.8	299.2	294.6	309.7
60°	167.1	169.9	175.5	198.9	272.2	381.3	413.5	346.6	341.7	325.9	341.1
62.5°	120.8	121.9	127.4	137.9	216.0	382.7	495.8	401.3	389.0	356.4	368.1
65°	97.3	99.2	100.8	100.7	127.9	339.4	550.4	498.5	461.5	390.5	397.8
67.5°	80.2	80.8	84.8	91.8	87.0	209.6	555.9	640.5	603.0	436.5	433.0
70°	67.0	67.2	71.2	83.8	83.3	108.2	466.1	722.2	713.2	512.0	488.2
71°	58.6	60.4	64.8	81.1	82.9	92.5	396.0	726.6	731.1	541.5	496.7
72.5°	46.2	46.2	52.5	74.4	83.6	85.3	291.8	703.0	716.0	575.1	481.9
75°	27.1	26.9	30.3	51.8	85.4	85.0	159.4	584.2	610.7	581.2	446.0
77.5°	15.3	15.6	17.4	28.9	67.8	81.6	91.5	425.4	456.6	486.2	377.1
80°	7.0	7.4	8.8	14.0	40.0	70.5	65.3	276.2	288.1	292.2	178.2
82.5°	1.9	2.1	2.7	5.4	15.5	48.0	48.3	115.6	119.5	69.1	38.2
85°	0.0	0.0	0.0	0.0	0.2	5.9	13.7	20.8	17.3	9.2	7.8
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°	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3
2.5°	163.2	163.6	164.3	164.2	164.0	162.8	163.5	162.8	162.6	162.3	162.4
5°	163.6	164.2	164.6	163.7	162.1	159.5	158.5	156.2	154.6	153.8	153.4
7.5°	164.2	164.6	164.4	161.8	157.8	152.8	148.4	145.0	141.4	140.8	140.6
10°	164.2	164.6	163.0	158.0	151.1	143.2	136.6	131.0	125.4	123.4	123.7
12.5°	163.8	164.0	160.2	152.2	142.2	131.4	122.1	113.0	105.9	101.5	100.7
15°	163.5	163.2	156.5	145.0	131.7	118.3	104.3	91.9	83.5	77.8	77.1
17.5°	163.5	162.3	152.0	136.8	120.3	101.8	83.3	69.9	60.5	57.2	57.1
20°	163.7	161.2	147.3	128.2	106.1	82.3	62.2	50.7	47.2	46.7	46.8
22.5°	163.9	159.7	142.1	118.5	90.2	61.3	44.4	40.3	40.6	41.8	41.7
25°	163.7	157.6	136.1	107.7	72.9	44.2	35.9	34.8	36.7	38.1	38.5
27.5°	163.2	154.9	129.6	94.8	55.6	34.8	31.3	31.2	33.1	34.4	34.3
30°	161.6	151.7	122.0	81.2	40.1	29.7	28.2	28.6	29.8	31.0	31.0
32.5°	160.0	148.1	114.1	66.4	30.8	26.9	26.4	26.5	27.3	28.2	28.1
35°	158.2	144.6	106.0	50.9	27.0	25.3	25.0	24.9	25.3	25.5	25.5
37.5°	157.2	141.5	97.0	38.3	24.9	24.2	23.8	23.4	23.3	23.1	22.9
40°	157.6	139.5	88.3	29.7	23.7	23.1	22.5	21.9	21.4	21.2	21.1
42.5°	160.5	138.8	78.7	25.6	22.6	22.1	21.2	20.2	19.8	19.8	19.7
45°	167.2	140.7	69.8	23.5	21.5	20.9	19.6	18.9	18.6	18.7	18.7
47.5°	177.7	146.0	61.7	22.5	20.8	19.9	18.3	17.6	17.4	17.5	17.5
50°	193.5	155.8	53.5	21.5	20.0	18.8	17.4	16.6	16.3	16.3	16.3
52.5°	216.6	172.1	47.5	20.9	19.3	17.8	16.5	15.6	15.2	15.2	15.0
55°	244.7	193.4	45.2	20.5	18.3	17.0	15.6	14.6	14.0	13.8	13.9
57.5°	275.5	220.9	48.5	20.4	17.3	16.1	14.6	13.5	12.9	12.8	12.7
60°	307.3	248.2	58.0	19.9	16.5	14.9	13.6	12.6	12.0	11.8	11.6
62.5°	334.7	275.4	73.7	19.5	15.9	13.9	12.5	11.5	11.0	10.7	10.7
65°	367.8	306.6	97.6	20.0	15.6	12.9	11.4	10.6	10.2	9.9	9.9
67.5°	412.9	352.9	115.8	22.5	16.3	12.1	10.3	9.7	9.4	9.2	9.2
70°	457.3	378.9	80.5	26.4	18.1	11.3	9.3	8.9	8.7	8.5	8.5
71°	456.7	365.0	60.5	27.3	18.8	11.1	8.9	8.6	8.3	8.2	8.1
72.5°	433.8	331.8	43.4	26.5	18.4	10.5	8.3	8.0	7.8	7.8	7.7
75°	389.1	292.4	33.9	22.2	15.5	9.4	7.4	7.2	7.0	6.9	7.0
77.5°	318.8	234.0	26.7	17.5	11.8	7.7	6.6	6.3	6.2	6.1	6.2
80°	146.5	101.9	19.5	13.6	8.8	6.2	5.6	5.5	5.4	5.3	5.3
82.5°	35.3	28.6	10.4	9.1	6.0	4.7	4.4	4.4	4.4	4.3	4.3
85°	7.7	7.7	4.2	4.2	3.6	3.3	3.5	3.5	3.5	3.3	3.3
87.5°	0.4	1.2	1.3	2.0	2.1	2.0	2.4	2.5	2.4	2.3	2.2
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)