

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: P188988

Luminaire Tested: **ABW-B1-LED-D1-A**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P188988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34778)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ABW-B1-LED-D1-A
Description: ARBOR OUTDOOR ARCHITECTURAL WALLMOUNT
70 CRI, 4000K LEDS AND ASYMMETRIC OPTIC, GRAPHITE METALLIC PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 488.5 lumens
Efficiency: N/A
Efficacy: 44.4 lumens/watt
Luminous Opening: Circular (Dia: 4.75' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

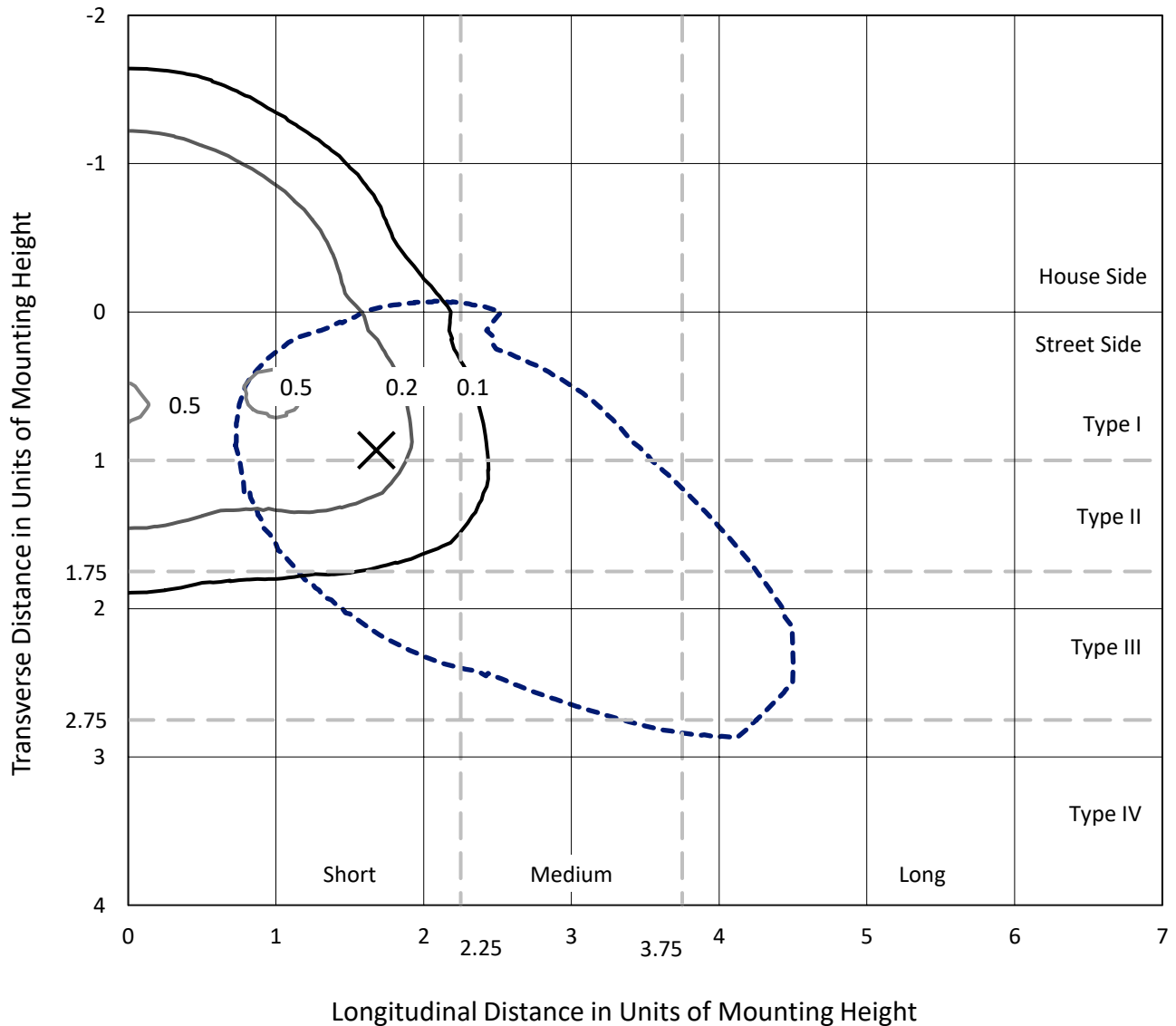
Input Watts (W): 11
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

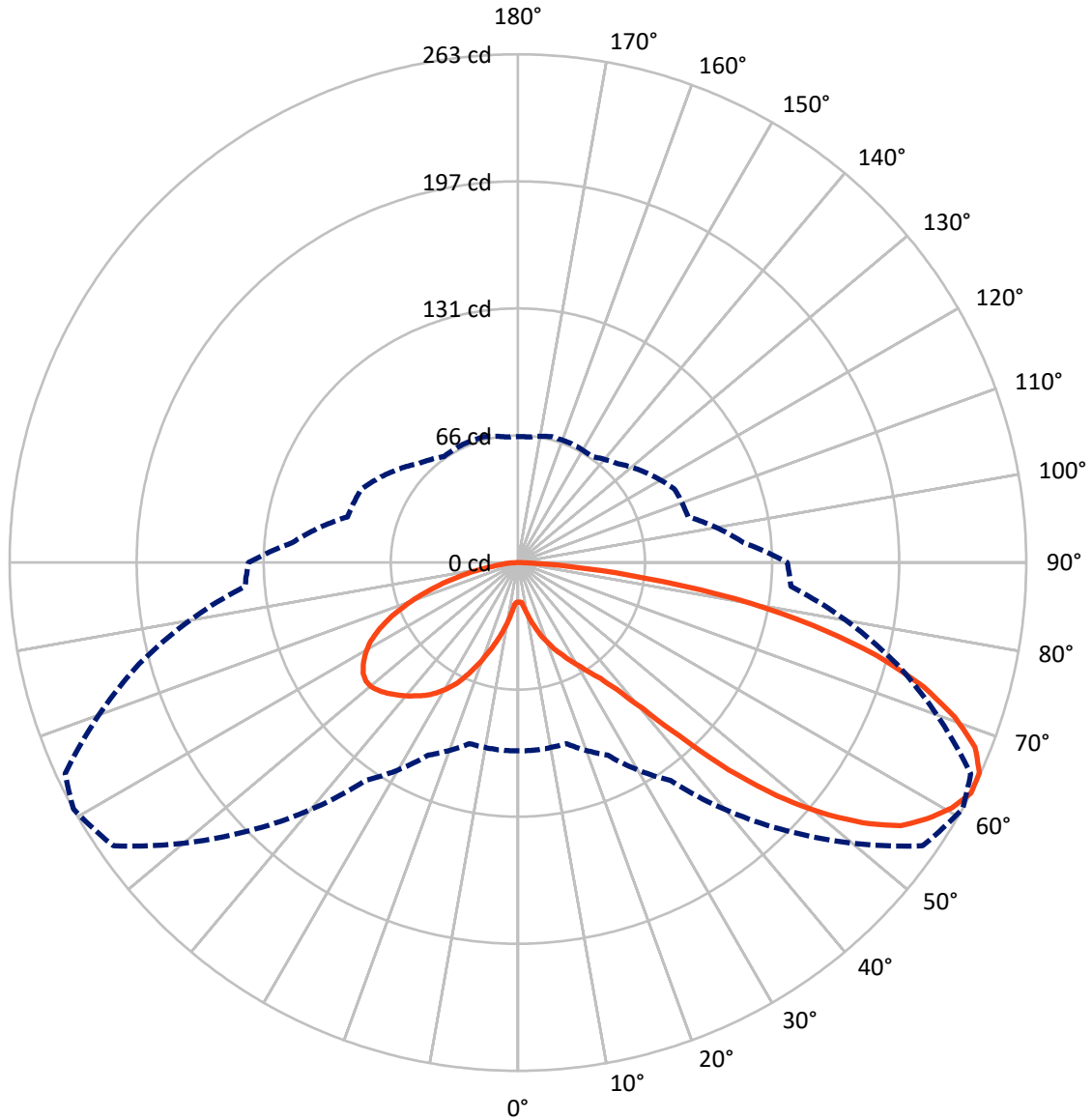
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 61-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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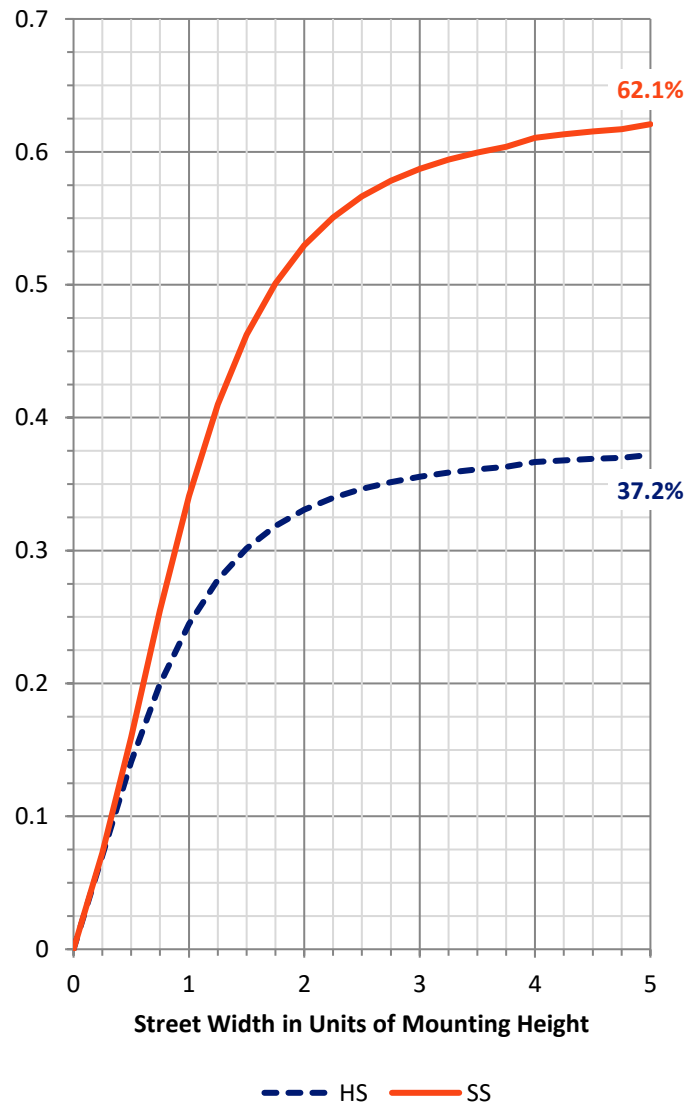
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	183.4	0.0	183.4
	% Fixture	37.6	0.0	37.6
Street Side	Lumens	305.1	0.0	305.1
	% Fixture	62.4	0.0	62.4
Total	Lumens	488.5	0.0	488.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.5
10°-20°	11.2	2.3
20°-30°	27.1	5.6
30°-40°	48.7	10.0
40°-50°	79.8	16.3
50°-60°	110.9	22.7
60°-70°	115.8	23.7
70°-80°	77.4	15.8
80°-90°	15.3	3.1
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°	488.5	100.0
0°-180°	488.5	100.0



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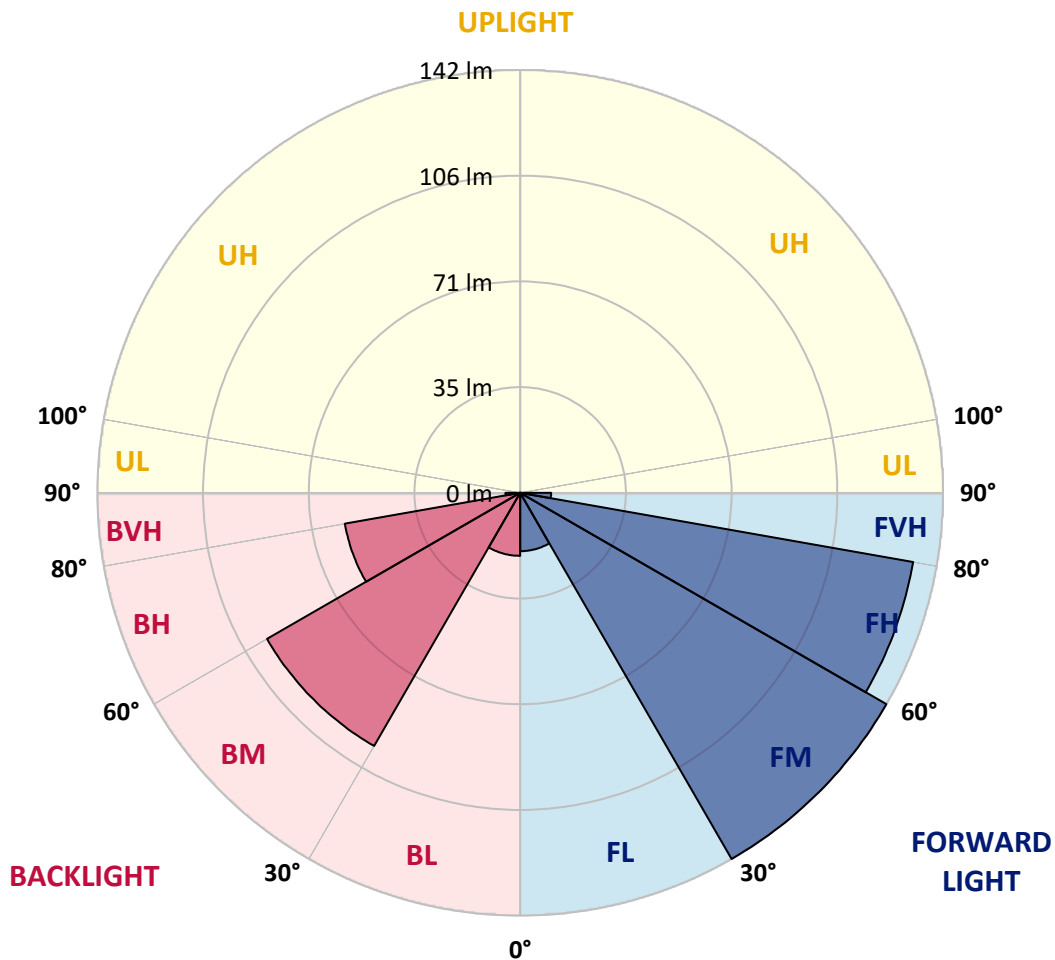
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	19.5	4.0			
FM	(30°-60°)	141.6	29.0			
FH	(60°-80°)	133.6	27.4			G0/660
FVH	(80°-90°)	10.4	2.1			G1/100
BL	(0°-30°)	21.1	4.3	B0/110		
BM	(30°-60°)	97.9	20.0	B0/220		
BH	(60°-80°)	59.6	12.2	B0/110		G0/110
BVH	(80°-90°)	4.9	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	61°	65°	75°	85°
0°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
2.5°	19.8	19.8	19.8	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
5°	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	21.5	21.5
7.5°	24.3	24.3	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
10°	27.2	27.7	27.2	27.7	27.7	27.7	27.2	27.2	27.7	27.7	27.7
12.5°	31.1	31.1	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	32.3
15°	35.7	36.2	36.8	36.8	36.8	35.7	35.7	35.7	35.7	36.2	36.2
17.5°	42.4	42.4	41.3	41.3	40.7	40.7	40.2	40.2	40.2	39.6	40.2
20°	49.8	49.2	47.5	47.0	45.8	44.7	44.1	44.1	44.1	44.1	44.7
22.5°	57.7	57.2	54.3	52.1	50.9	49.2	48.7	48.7	48.1	48.1	48.1
25°	66.2	65.6	61.1	57.7	56.0	54.3	53.2	52.6	52.6	52.1	52.1
27.5°	75.3	74.1	67.9	63.4	61.1	58.9	57.7	57.2	56.6	56.0	56.0
30°	83.2	82.1	75.3	69.0	65.6	64.0	62.8	61.7	61.1	60.0	60.0
32.5°	90.0	88.9	81.5	74.1	70.2	69.6	68.5	67.3	66.8	65.1	64.5
35°	94.5	93.9	87.2	79.8	75.3	75.8	75.3	73.6	73.0	70.7	69.6
37.5°	98.5	97.9	92.2	84.9	80.9	83.8	84.9	83.2	82.6	78.1	74.7
40°	101.3	101.3	96.2	90.0	87.2	96.8	99.6	99.0	96.8	88.3	81.5
42.5°	104.1	104.1	100.7	95.6	95.1	110.9	122.8	122.2	118.8	103.0	90.0
45°	107.5	107.5	104.7	100.2	102.4	124.5	145.4	152.8	148.8	122.2	101.3
47.5°	109.2	109.8	108.1	105.3	110.9	138.7	171.5	180.0	178.3	140.4	110.4
50°	110.9	110.9	110.9	109.2	118.8	155.1	195.8	203.2	198.6	159.0	120.5
52.5°	112.1	112.6	112.1	112.1	125.6	169.8	219.0	223.5	220.1	176.0	128.5
55°	110.9	111.5	110.9	113.2	131.9	181.7	234.9	240.0	236.0	188.5	135.3
57.5°	107.5	108.1	107.5	112.1	135.3	190.2	243.4	249.6	244.5	195.8	139.8
60°	103.0	103.6	102.4	110.9	137.0	195.2	252.4	257.5	253.0	200.9	142.6
62.5°	97.3	97.3	96.8	109.8	137.5	195.8	255.2	262.6	258.1	202.6	141.5
65°	90.0	89.4	86.6	108.1	134.1	191.3	255.8	262.0	256.9	199.2	137.0
67.5°	79.8	79.2	75.3	105.8	127.3	180.5	248.4	254.7	249.6	189.6	129.6
70°	68.5	66.8	64.0	100.2	117.1	164.7	233.2	239.4	233.7	173.7	118.8
72.5°	52.6	53.2	52.1	90.5	103.6	143.7	211.1	219.0	212.2	150.5	106.4
75°	39.0	38.5	41.3	77.5	87.2	118.8	183.4	191.3	185.6	123.9	91.1
77.5°	26.0	25.5	31.7	61.1	68.5	92.2	150.5	155.6	148.8	94.5	73.6
80°	15.8	15.3	21.5	41.3	43.6	64.5	110.4	114.3	107.5	62.3	53.8
82.5°	8.5	9.1	11.9	19.8	17.0	37.9	62.8	66.2	58.9	26.6	34.0
85°	5.1	4.5	5.1	4.5	5.7	15.8	24.9	27.7	24.9	9.6	14.7
87.5°	4.0	4.0	4.0	3.4	3.4	4.0	4.5	4.5	4.5	4.0	4.0
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°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
2.5°	20.4	20.4	20.4	20.4	20.9	20.9	20.9	20.4	20.4	20.4	20.4
5°	21.5	21.5	21.5	21.5	22.1	22.6	23.2	23.2	23.2	23.2	23.2
7.5°	24.3	24.3	25.5	25.5	26.0	26.6	27.2	27.2	27.2	27.2	27.7
10°	28.3	28.9	30.0	30.6	31.1	31.7	31.7	31.7	31.7	31.7	31.7
12.5°	32.3	32.8	34.0	35.1	36.2	36.8	36.8	36.2	35.7	35.7	36.2
15°	36.8	37.4	38.5	40.2	41.9	42.4	42.4	41.3	40.7	40.2	40.2
17.5°	40.7	41.3	42.4	45.3	47.5	48.1	47.0	46.4	45.3	44.1	44.1
20°	45.3	45.3	47.5	50.9	53.8	53.8	52.6	50.9	49.8	48.7	48.7
22.5°	48.7	49.8	52.6	57.2	59.4	59.4	57.7	56.0	54.3	52.6	52.6
25°	52.6	53.8	57.7	63.4	65.6	64.5	62.8	60.0	57.7	56.0	56.0
27.5°	56.6	58.3	63.4	69.0	71.9	69.6	66.8	64.0	61.1	59.4	58.9
30°	61.1	62.8	68.5	74.1	76.4	73.6	70.2	67.3	64.0	62.3	61.7
32.5°	65.6	67.9	73.6	78.7	80.4	77.5	73.6	70.2	66.2	64.5	64.5
35°	70.7	73.0	79.2	83.2	83.2	80.9	76.4	72.4	68.5	66.8	66.2
37.5°	75.8	78.1	84.3	86.6	85.5	83.2	78.7	74.1	70.7	68.5	68.5
40°	82.1	84.3	89.4	90.0	88.3	84.9	80.9	76.4	73.0	71.3	71.3
42.5°	88.9	90.5	94.5	93.4	90.5	86.6	83.2	79.8	76.4	74.7	74.7
45°	97.3	98.5	100.7	96.8	92.2	87.7	83.8	80.4	78.1	77.5	77.5
47.5°	104.7	103.0	105.3	99.6	93.9	88.3	83.8	80.4	78.7	78.7	78.7
50°	110.4	107.5	108.1	101.9	95.1	88.3	83.2	79.8	78.7	78.7	78.7
52.5°	117.7	110.4	109.8	103.0	94.5	87.2	81.5	78.7	78.7	78.1	78.1
55°	123.9	112.1	108.1	101.9	92.8	84.3	79.2	77.0	77.0	75.8	75.8
57.5°	130.2	112.6	104.7	98.5	90.0	80.9	75.8	74.1	74.1	73.0	72.4
60°	135.8	114.9	99.6	94.5	86.0	77.0	71.9	71.3	70.7	69.0	69.0
62.5°	139.2	117.1	91.1	89.4	80.9	72.4	66.8	67.3	67.3	65.1	65.1
65°	139.2	117.7	82.6	82.1	74.1	66.2	61.1	63.4	62.8	60.6	60.6
67.5°	134.1	114.9	75.3	73.6	66.2	60.0	56.0	57.7	57.2	55.5	55.5
70°	124.5	107.5	67.9	63.4	56.6	51.5	49.8	52.1	50.9	49.2	49.8
72.5°	111.5	95.6	60.6	52.6	47.0	43.6	43.0	45.3	43.6	43.6	42.4
75°	94.5	80.4	49.2	41.9	37.4	35.7	35.7	37.4	36.2	35.7	35.7
77.5°	72.4	60.0	36.2	30.6	28.3	28.3	28.3	29.4	28.9	28.9	28.3
80°	47.5	36.8	22.6	20.9	19.8	20.4	20.4	20.9	20.9	21.5	21.5
82.5°	27.7	18.7	11.9	11.3	11.9	13.0	11.9	12.5	13.0	14.1	14.1
85°	10.2	8.5	6.8	7.4	7.4	6.8	5.7	6.2	6.2	6.8	6.8
87.5°	3.4	3.4	4.0	4.0	4.5	4.5	4.0	4.0	4.5	5.7	5.7
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)