

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: P188989

Luminaire Tested: **ABW-B2-LED-D1-A-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188989  
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-B2-LED-D1-A-8030  
Description: ARBOR OUTDOOR ARCHITECTURAL WALLMOUNT  
80 CRI, 3000K LEDS AND ASYMMETRIC OPTIC, GRAPHITE METALLIC PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 701.9 lumens  
Efficiency: N/A  
Efficacy: 30.5 lumens/watt  
Luminous Opening: Circular (Dia: 4.75' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

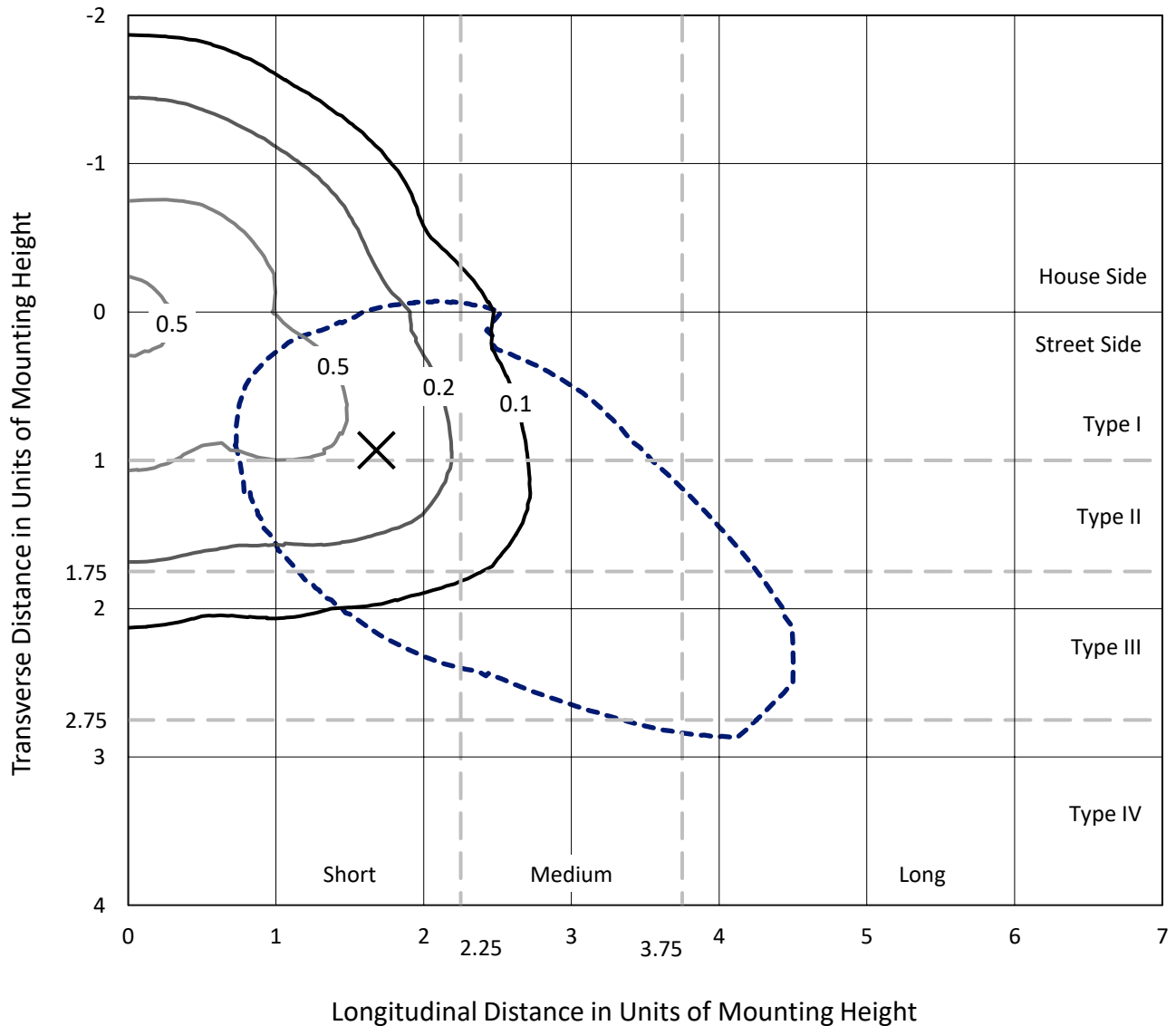
Input Watts (W): 23  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P188989  
 CATALOG NUMBER: ABW-B2-LED-D1-A-8030

### Iso-Footcandle Lines of Horizontal Illumination

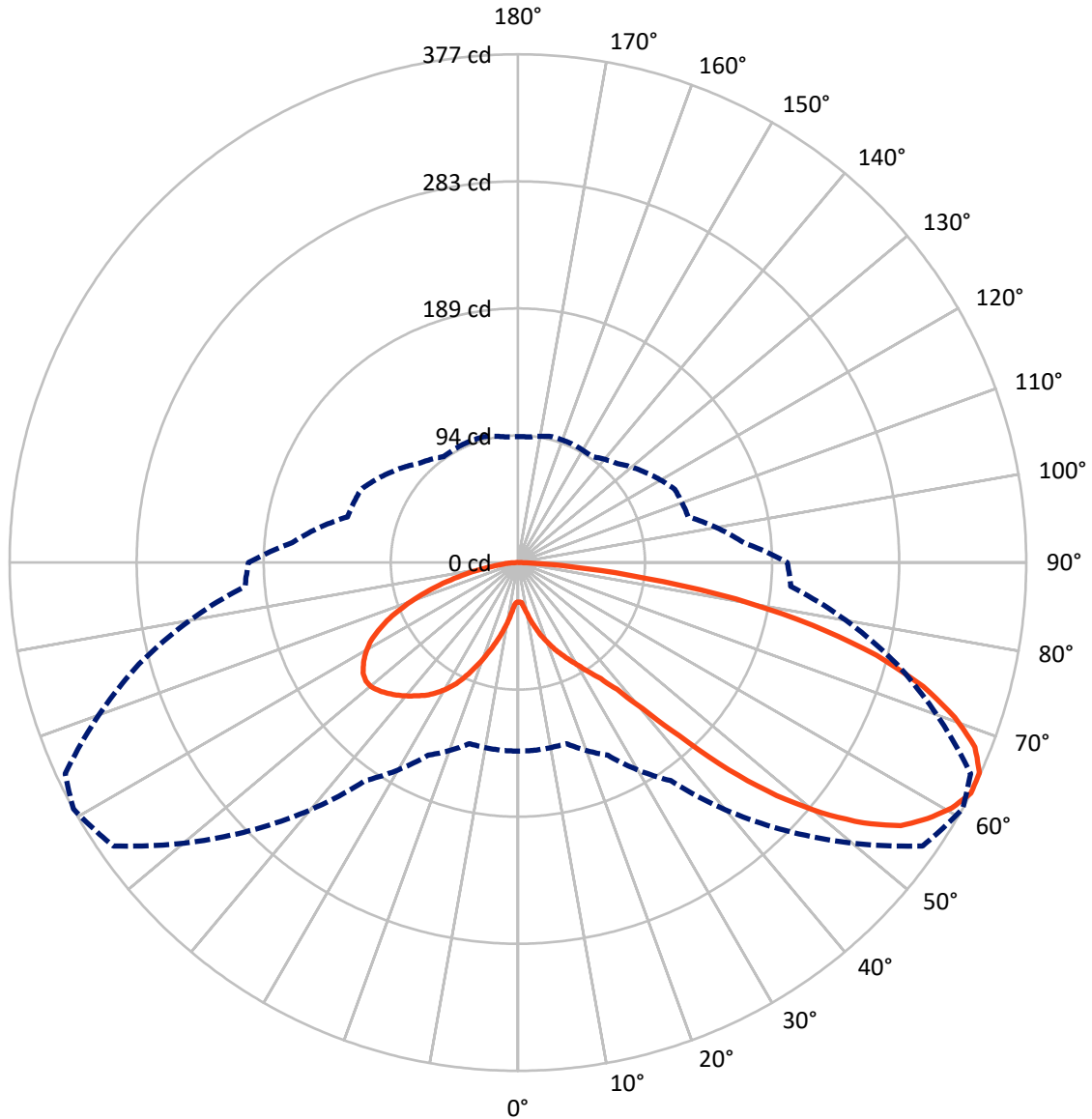
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P188989  
CATALOG NUMBER: ABW-B2-LED-D1-A-8030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P188989

CATALOG NUMBER: ABW-B2-LED-D1-A-8030

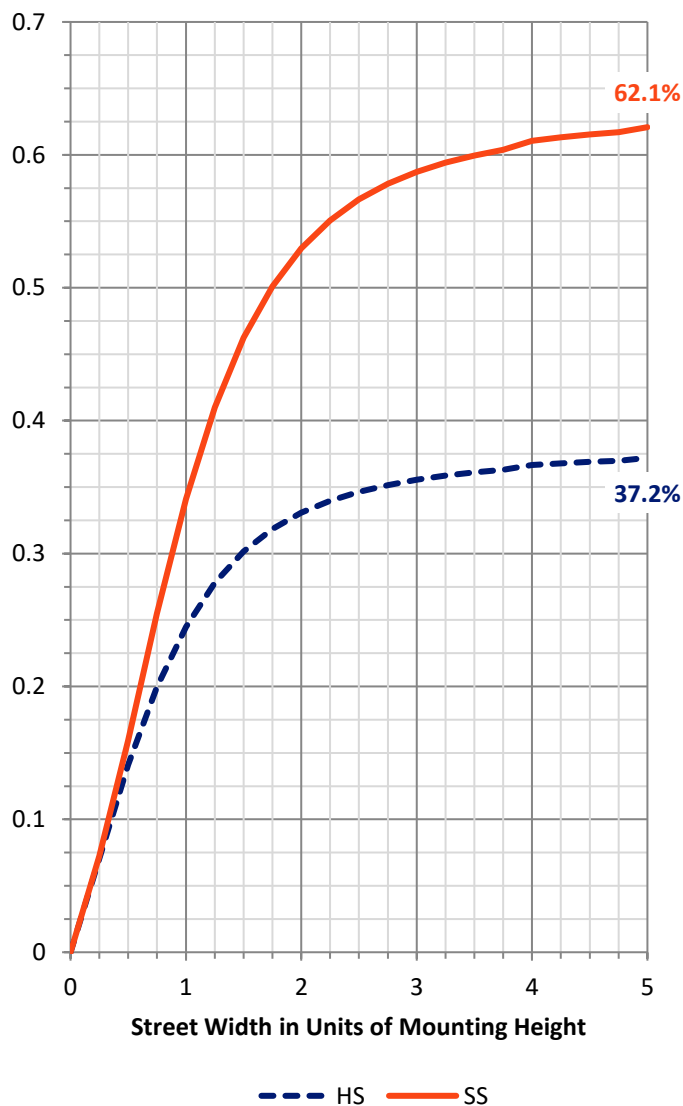
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	263.6	0.0	263.6
	% Fixture	37.6	0.0	37.6
<b>Street Side</b>	Lumens	438.3	0.0	438.3
	% Fixture	62.4	0.0	62.4
<b>Total</b>	Lumens	701.9	0.0	701.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.4	0.5
10°-20°	16.0	2.3
20°-30°	39.0	5.6
30°-40°	69.9	10.0
40°-50°	114.7	16.3
50°-60°	159.4	22.7
60°-70°	166.4	23.7
70°-80°	111.2	15.8
80°-90°	21.9	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°	701.9	100.0
0°-180°	701.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P188989

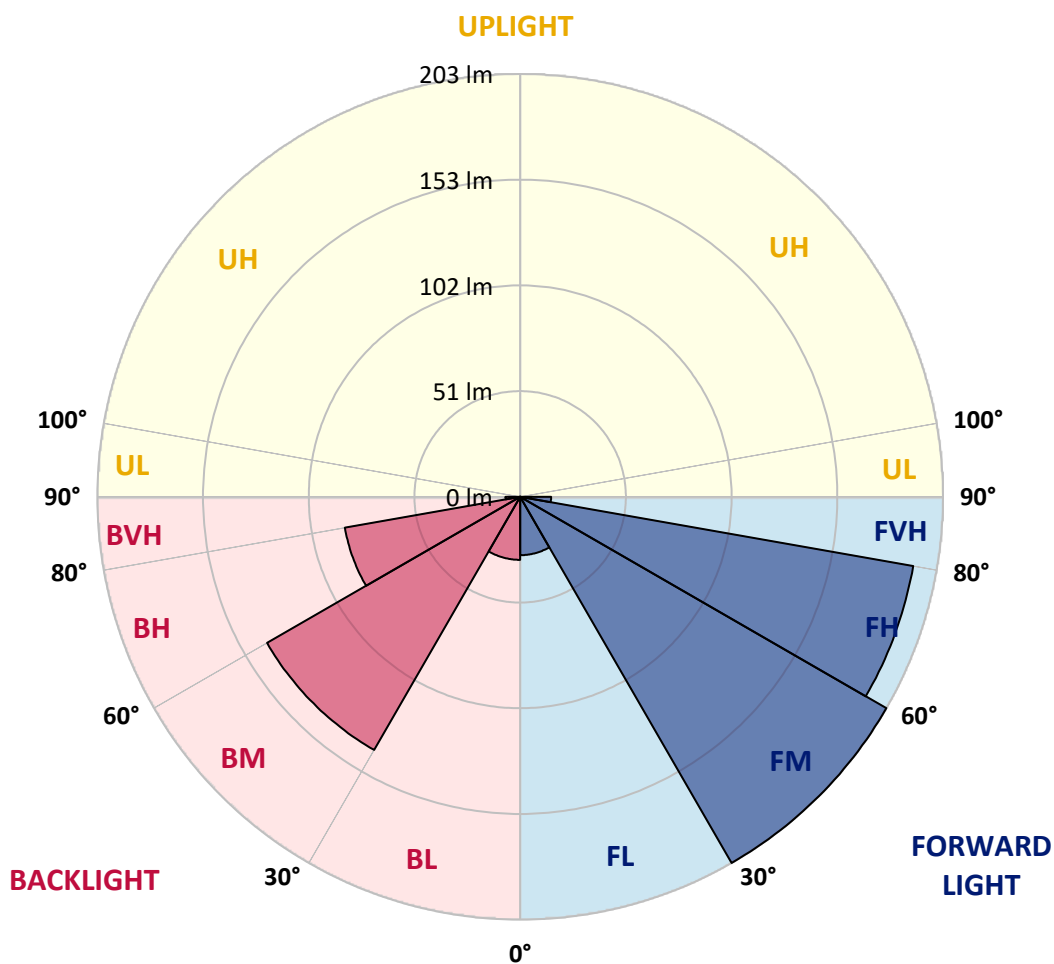
CATALOG NUMBER: ABW-B2-LED-D1-A-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	28.1	4.0			
FM (30°-60°)	203.4	29.0			
FH (60°-80°)	192.0	27.4			G0/660
FVH (80°-90°)	14.9	2.1			G1/100
BL (0°-30°)	30.3	4.3	B0/110		
BM (30°-60°)	140.6	20.0	B0/220		
BH (60°-80°)	85.6	12.2	B0/110		G0/110
BVH (80°-90°)	7.1	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





REPORT NUMBER: P188989  
 CATALOG NUMBER: ABW-B2-LED-D1-A-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	61°	65°	75°	85°
0°	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
2.5°	28.5	28.5	28.5	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
5°	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.9	30.9
7.5°	35.0	35.0	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
10°	39.0	39.8	39.0	39.8	39.8	39.8	39.0	39.0	39.8	39.8	39.8
12.5°	44.7	44.7	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	46.4
15°	51.2	52.0	52.9	52.9	52.9	51.2	51.2	51.2	51.2	52.0	52.0
17.5°	61.0	61.0	59.4	59.4	58.5	58.5	57.7	57.7	57.7	56.9	57.7
20°	71.6	70.7	68.3	67.5	65.9	64.2	63.4	63.4	63.4	63.4	64.2
22.5°	82.9	82.1	78.1	74.8	73.2	70.7	69.9	69.9	69.1	69.1	69.1
25°	95.1	94.3	87.8	82.9	80.5	78.1	76.4	75.6	75.6	74.8	74.8
27.5°	108.2	106.5	97.6	91.1	87.8	84.6	82.9	82.1	81.3	80.5	80.5
30°	119.5	117.9	108.2	99.2	94.3	91.9	90.3	88.6	87.8	86.2	86.2
32.5°	129.3	127.7	117.1	106.5	100.8	100.0	98.4	96.8	96.0	93.5	92.7
35°	135.8	135.0	125.2	114.7	108.2	109.0	108.2	105.7	104.9	101.6	100.0
37.5°	141.5	140.7	132.5	122.0	116.3	120.4	122.0	119.5	118.7	112.2	107.3
40°	145.6	145.6	138.2	129.3	125.2	139.1	143.1	142.3	139.1	126.9	117.1
42.5°	149.6	149.6	144.7	137.4	136.6	159.4	176.5	175.6	170.8	148.0	129.3
45°	154.5	154.5	150.4	143.9	147.2	178.9	209.0	219.6	213.9	175.6	145.6
47.5°	156.9	157.8	155.3	151.3	159.4	199.2	246.4	258.6	256.2	201.7	158.6
50°	159.4	159.4	159.4	156.9	170.8	222.8	281.4	291.9	285.4	228.5	173.2
52.5°	161.0	161.8	161.0	161.0	180.5	244.0	314.7	321.2	316.3	252.9	184.6
55°	159.4	160.2	159.4	162.6	189.5	261.0	337.5	344.8	339.1	270.8	194.3
57.5°	154.5	155.3	154.5	161.0	194.3	273.2	349.7	358.6	351.3	281.4	200.9
60°	148.0	148.8	147.2	159.4	196.8	280.5	362.7	370.0	363.5	288.7	204.9
62.5°	139.9	139.9	139.1	157.8	197.6	281.4	366.7	377.3	370.8	291.1	203.3
65°	129.3	128.5	124.4	155.3	192.7	274.9	367.6	376.5	369.2	286.2	196.8
67.5°	114.7	113.8	108.2	152.1	183.0	259.4	357.0	365.9	358.6	272.4	186.2
70°	98.4	96.0	91.9	143.9	168.3	236.6	335.0	344.0	335.8	249.6	170.8
72.5°	75.6	76.4	74.8	130.1	148.8	206.5	303.3	314.7	304.9	216.3	152.9
75°	56.1	55.3	59.4	111.4	125.2	170.8	263.5	274.9	266.7	178.1	130.9
77.5°	37.4	36.6	45.5	87.8	98.4	132.5	216.3	223.6	213.9	135.8	105.7
80°	22.8	22.0	30.9	59.4	62.6	92.7	158.6	164.3	154.5	89.4	77.3
82.5°	12.2	13.0	17.1	28.5	24.4	54.5	90.3	95.1	84.6	38.2	48.8
85°	7.3	6.5	7.3	6.5	8.1	22.8	35.8	39.8	35.8	13.8	21.1
87.5°	5.7	5.7	5.7	4.9	4.9	5.7	6.5	6.5	6.5	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



REPORT NUMBER: P188989  
 CATALOG NUMBER: ABW-B2-LED-D1-A-8030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
2.5°	29.3	29.3	29.3	29.3	30.1	30.1	30.1	29.3	29.3	29.3	29.3
5°	30.9	30.9	30.9	30.9	31.7	32.5	33.3	33.3	33.3	33.3	33.3
7.5°	35.0	35.0	36.6	36.6	37.4	38.2	39.0	39.0	39.0	39.0	39.8
10°	40.7	41.5	43.1	43.9	44.7	45.5	45.5	45.5	45.5	45.5	45.5
12.5°	46.4	47.2	48.8	50.4	52.0	52.9	52.9	52.0	51.2	51.2	52.0
15°	52.9	53.7	55.3	57.7	60.2	61.0	61.0	59.4	58.5	57.7	57.7
17.5°	58.5	59.4	61.0	65.1	68.3	69.1	67.5	66.7	65.1	63.4	63.4
20°	65.1	65.1	68.3	73.2	77.3	77.3	75.6	73.2	71.6	69.9	69.9
22.5°	69.9	71.6	75.6	82.1	85.4	85.4	82.9	80.5	78.1	75.6	75.6
25°	75.6	77.3	82.9	91.1	94.3	92.7	90.3	86.2	82.9	80.5	80.5
27.5°	81.3	83.8	91.1	99.2	103.3	100.0	96.0	91.9	87.8	85.4	84.6
30°	87.8	90.3	98.4	106.5	109.8	105.7	100.8	96.8	91.9	89.4	88.6
32.5°	94.3	97.6	105.7	113.0	115.5	111.4	105.7	100.8	95.1	92.7	92.7
35°	101.6	104.9	113.8	119.5	119.5	116.3	109.8	104.1	98.4	96.0	95.1
37.5°	109.0	112.2	121.2	124.4	122.8	119.5	113.0	106.5	101.6	98.4	98.4
40°	117.9	121.2	128.5	129.3	126.9	122.0	116.3	109.8	104.9	102.5	102.5
42.5°	127.7	130.1	135.8	134.2	130.1	124.4	119.5	114.7	109.8	107.3	107.3
45°	139.9	141.5	144.7	139.1	132.5	126.0	120.4	115.5	112.2	111.4	111.4
47.5°	150.4	148.0	151.3	143.1	135.0	126.9	120.4	115.5	113.0	113.0	113.0
50°	158.6	154.5	155.3	146.4	136.6	126.9	119.5	114.7	113.0	113.0	113.0
52.5°	169.1	158.6	157.8	148.0	135.8	125.2	117.1	113.0	113.0	112.2	112.2
55°	178.1	161.0	155.3	146.4	133.4	121.2	113.8	110.6	110.6	109.0	109.0
57.5°	187.0	161.8	150.4	141.5	129.3	116.3	109.0	106.5	106.5	104.9	104.1
60°	195.2	165.1	143.1	135.8	123.6	110.6	103.3	102.5	101.6	99.2	99.2
62.5°	200.0	168.3	130.9	128.5	116.3	104.1	96.0	96.8	96.8	93.5	93.5
65°	200.0	169.1	118.7	117.9	106.5	95.1	87.8	91.1	90.3	87.0	87.0
67.5°	192.7	165.1	108.2	105.7	95.1	86.2	80.5	82.9	82.1	79.7	79.7
70°	178.9	154.5	97.6	91.1	81.3	74.0	71.6	74.8	73.2	70.7	71.6
72.5°	160.2	137.4	87.0	75.6	67.5	62.6	61.8	65.1	62.6	62.6	61.0
75°	135.8	115.5	70.7	60.2	53.7	51.2	51.2	53.7	52.0	51.2	51.2
77.5°	104.1	86.2	52.0	43.9	40.7	40.7	40.7	42.3	41.5	41.5	40.7
80°	68.3	52.9	32.5	30.1	28.5	29.3	29.3	30.1	30.1	30.9	30.9
82.5°	39.8	26.8	17.1	16.3	17.1	18.7	17.1	17.9	18.7	20.3	20.3
85°	14.6	12.2	9.8	10.6	10.6	9.8	8.1	8.9	8.9	9.8	9.8
87.5°	4.9	4.9	5.7	5.7	6.5	6.5	5.7	5.7	6.5	8.1	8.1
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)