

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: P188986

Luminaire Tested: **ABW-B1-LED-D1-S-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188986  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34776)  
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-S-8030  
Description: ARBOR OUTDOOR ARCHITECTURAL WALLMOUNT  
80 CRI, 3000K LEDS AND SYMMETRIC OPTIC, GRAPHITE METALLIC PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 597.4 lumens  
Efficiency: N/A  
Efficacy: 37.3 lumens/watt  
Luminous Opening: Circular (Dia: 4.75' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

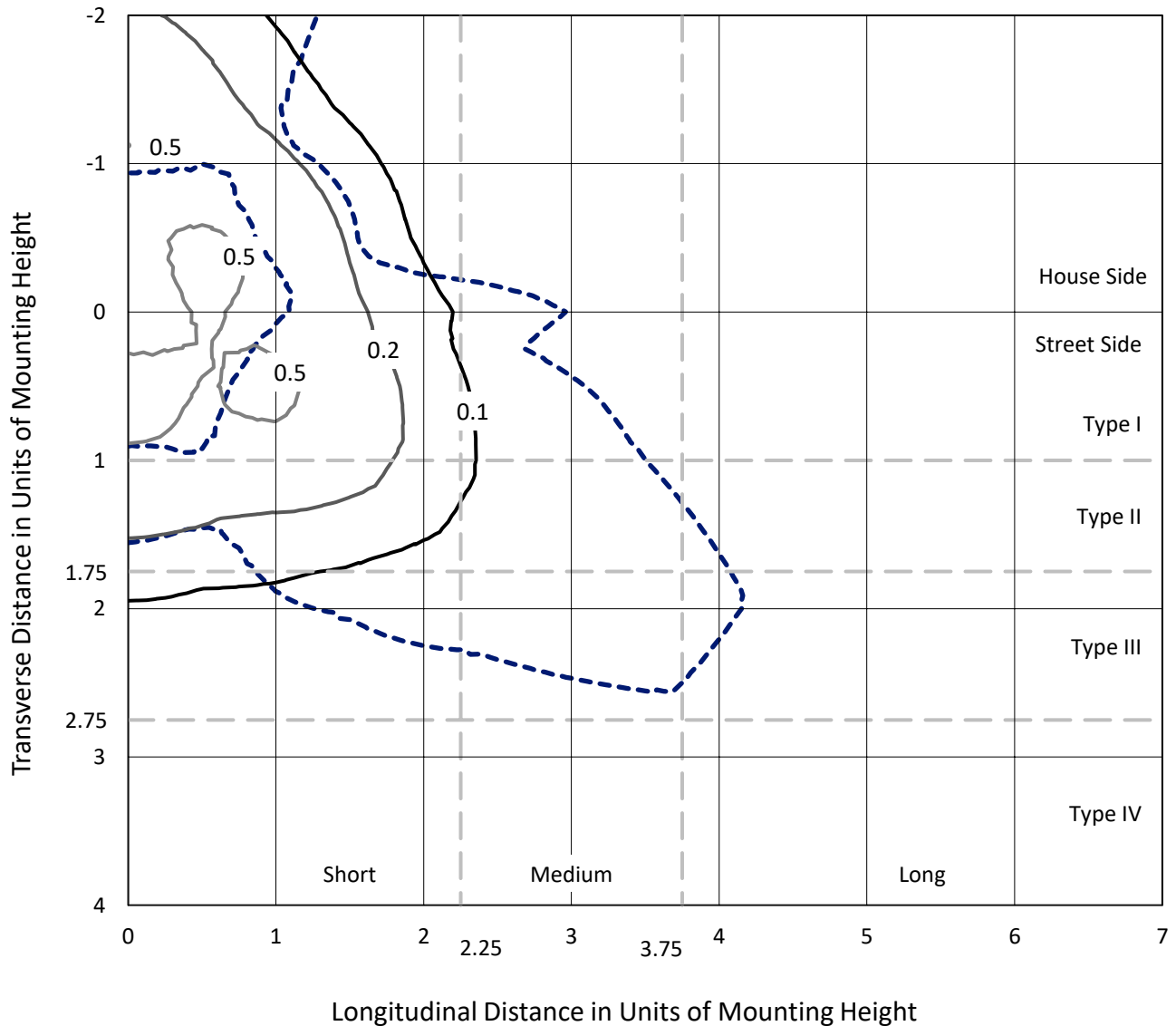
Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

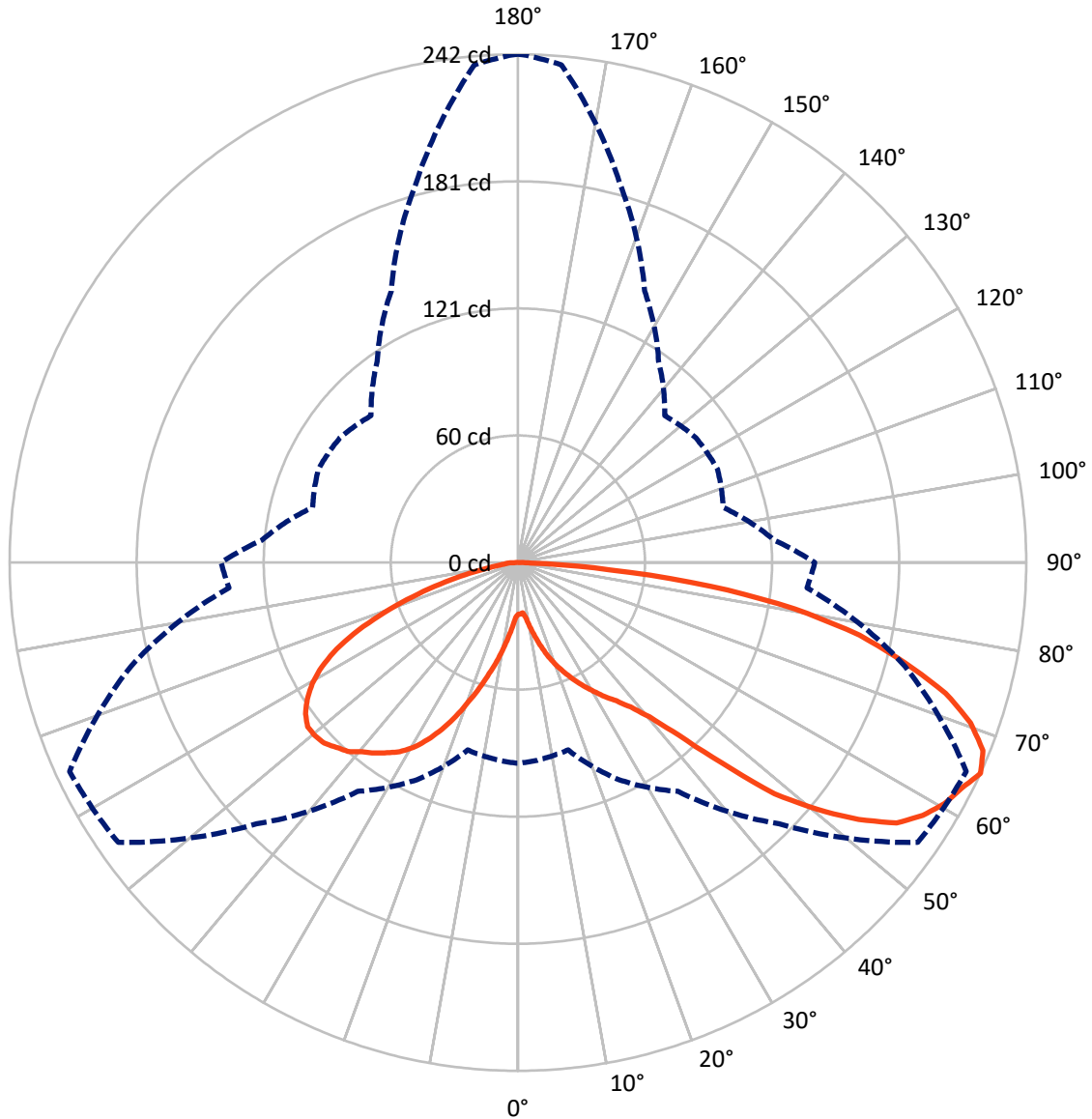
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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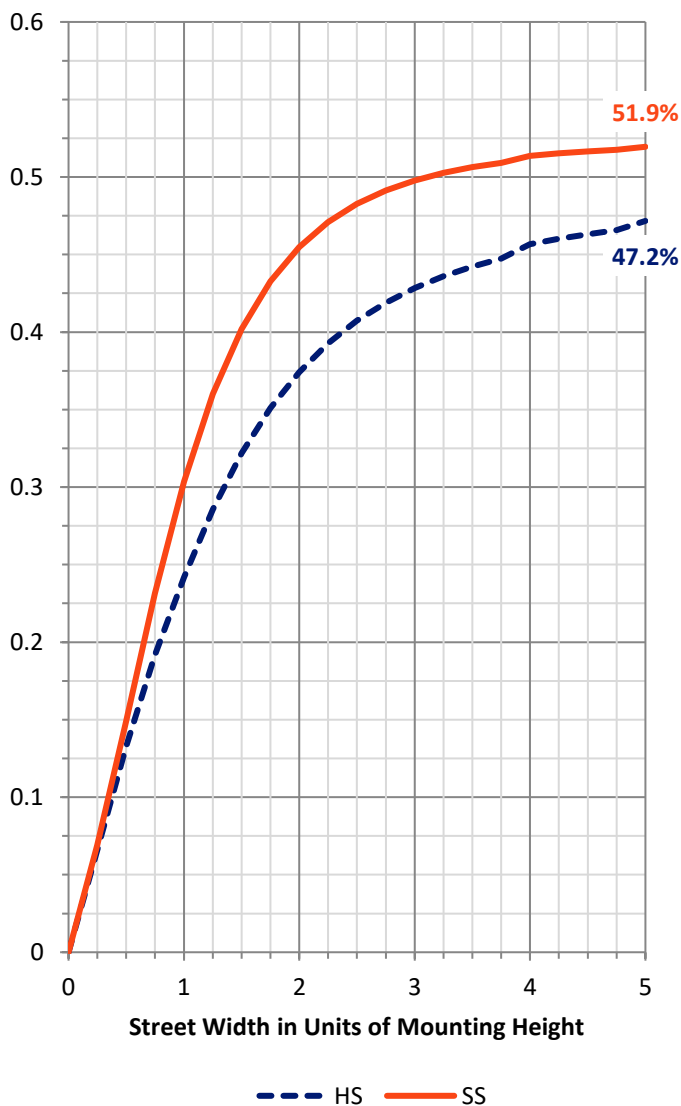
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	285.9	0.0	285.9
	% Fixture	47.9	0.0	47.9
<b>Street Side</b>	Lumens	311.5	0.0	311.5
	% Fixture	52.1	0.0	52.1
<b>Total</b>	Lumens	597.4	0.0	597.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.9	0.5
10°-20°	13.7	2.3
20°-30°	33.1	5.5
30°-40°	59.2	9.9
40°-50°	97.6	16.3
50°-60°	136.2	22.8
60°-70°	142.1	23.8
70°-80°	94.6	15.8
80°-90°	18.1	3.0
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°	597.4	100.0
0°-180°	597.4	100.0



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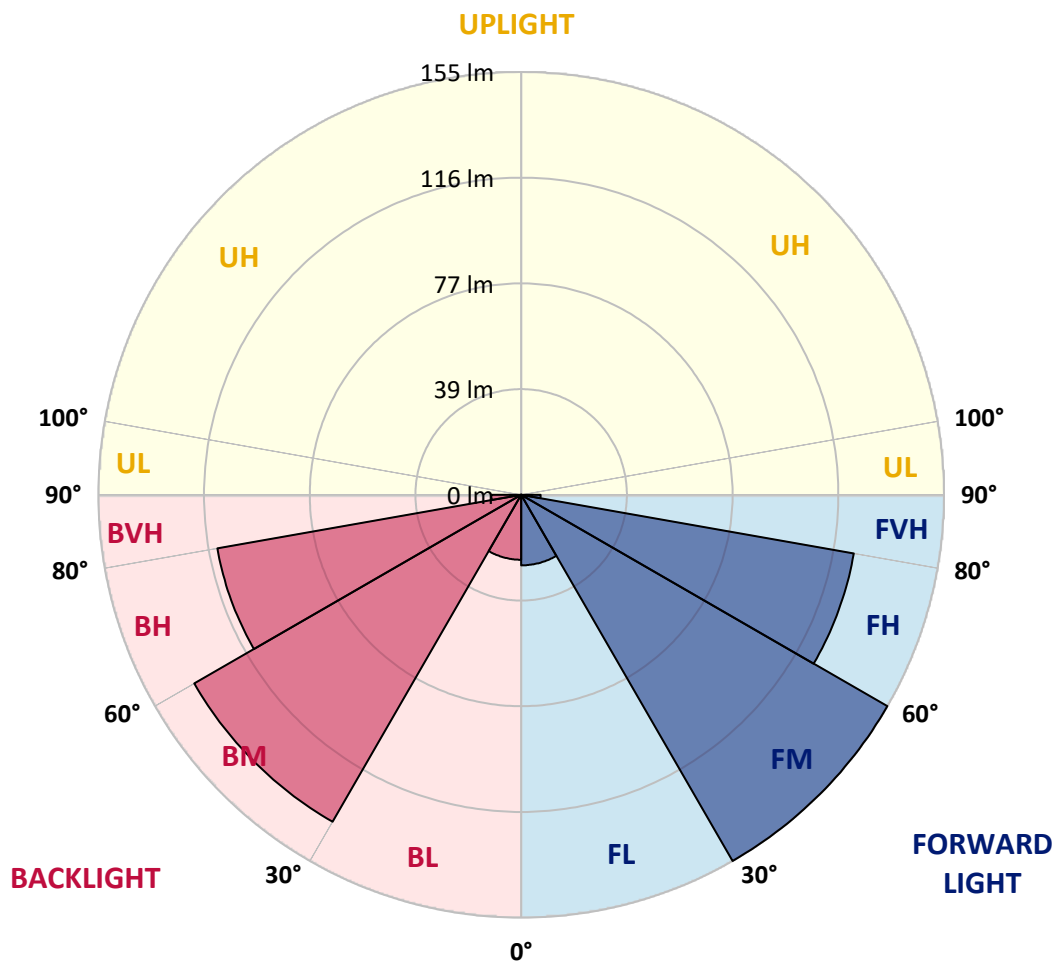
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	25.8	4.3			
FM	(30°-60°)	154.8	25.9			
FH	(60°-80°)	123.7	20.7			G0/660
FVH	(80°-90°)	7.1	1.2			G0/10
BL	(0°-30°)	23.8	4.0	B0/110		
BM	(30°-60°)	138.2	23.1	B0/220		
BH	(60°-80°)	113.0	18.9	B1/500		G1/500
BVH	(80°-90°)	11.0	1.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
2.5°	25.8	25.4	25.4	24.9	25.4	24.9	24.5	24.5	24.5	24.5	24.5
5°	30.0	30.0	30.0	30.5	30.0	29.1	28.6	28.1	27.2	26.8	26.3
7.5°	35.1	35.5	35.5	36.0	35.1	34.1	33.2	32.3	31.4	30.9	30.5
10°	41.1	41.5	41.1	41.1	40.6	39.7	38.3	37.4	36.5	36.0	36.0
12.5°	48.0	47.5	47.1	47.1	45.7	44.3	43.4	42.5	42.0	41.5	41.5
15°	54.5	54.9	53.5	52.6	51.2	49.8	48.9	47.5	47.1	47.1	47.1
17.5°	62.3	61.8	60.0	58.6	56.8	54.9	53.5	53.1	52.1	52.1	52.6
20°	70.1	69.2	66.9	64.1	62.3	60.5	58.6	58.1	57.2	57.7	58.1
22.5°	78.9	78.0	73.4	69.7	67.4	65.1	63.2	62.8	62.3	63.2	63.7
25°	87.2	86.3	80.3	75.7	72.4	70.1	67.8	67.4	67.4	68.8	68.8
27.5°	94.6	93.7	87.2	80.8	77.1	74.8	72.9	72.4	72.4	73.4	74.3
30°	101.1	100.1	93.7	86.3	81.7	79.4	78.0	77.5	77.5	78.4	78.9
32.5°	106.1	105.2	99.7	91.4	86.3	84.4	84.0	83.1	83.1	83.5	84.4
35°	109.8	108.9	105.2	96.9	90.9	90.0	90.4	89.5	89.1	88.6	89.1
37.5°	113.5	113.1	109.4	102.0	96.0	97.8	99.2	99.7	97.4	93.7	94.1
40°	116.7	116.7	114.0	107.5	102.0	108.0	115.4	115.4	109.8	100.1	100.1
42.5°	120.9	120.9	119.1	113.1	110.3	122.7	137.1	138.0	125.1	110.3	108.0
45°	123.2	124.1	123.2	117.7	117.7	135.7	162.4	163.8	139.8	118.1	113.5
47.5°	126.0	126.0	126.0	120.9	124.6	149.5	181.4	184.1	154.1	127.4	120.0
50°	126.9	127.8	127.4	124.1	132.0	162.0	202.1	203.5	169.8	134.7	126.0
52.5°	126.9	126.9	126.4	123.7	137.1	174.4	218.3	220.1	183.7	141.2	131.5
55°	124.1	123.7	122.7	122.7	141.2	181.8	227.5	231.2	192.4	144.9	134.7
57.5°	119.5	119.1	118.1	120.9	142.6	185.5	232.6	235.3	198.0	145.8	137.5
60°	113.5	113.5	111.2	119.1	143.1	186.4	237.2	240.0	199.3	146.3	140.3
62.5°	105.7	105.7	103.4	117.7	139.4	183.7	237.7	240.9	198.0	143.5	141.7
65°	95.5	94.6	92.3	114.0	132.9	175.8	232.1	235.3	190.6	138.0	141.2
67.5°	82.6	81.7	79.8	107.5	122.3	162.0	221.0	224.3	176.7	129.2	136.6
70°	67.8	68.3	66.4	97.4	109.4	143.5	203.5	207.2	159.2	116.7	127.4
72.5°	52.6	53.1	54.9	84.0	95.1	122.3	179.5	184.1	138.4	103.8	113.1
75°	38.3	38.3	42.0	67.8	77.1	96.0	150.9	157.4	111.7	87.2	96.4
77.5°	25.8	25.4	30.0	47.5	57.2	70.1	119.1	124.1	84.9	66.9	74.8
80°	15.2	15.2	17.5	25.4	33.7	40.6	79.8	85.4	55.8	43.4	48.0
82.5°	8.3	8.3	7.8	8.3	12.0	13.4	34.1	41.1	27.7	18.0	19.4
85°	6.0	5.5	5.5	5.1	5.5	6.0	7.4	7.8	8.3	6.9	6.5
87.5°	4.6	4.6	4.6	3.7	4.2	4.6	6.0	6.0	5.1	4.6	4.2
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
2.5°	24.5	24.5	24.5	24.5	24.5	24.5	24.9	24.5	24.5	24.5	24.5
5°	25.8	25.4	24.9	24.5	24.0	24.0	23.5	23.5	23.5	24.0	24.0
7.5°	30.5	30.0	29.1	28.1	27.7	26.8	25.8	25.8	25.8	26.3	26.3
10°	35.5	35.1	34.1	33.2	31.8	31.8	30.9	30.9	30.5	30.9	30.9
12.5°	41.1	40.6	40.1	38.8	38.3	37.4	36.5	36.5	36.5	36.0	36.0
15°	46.6	46.6	45.7	44.8	43.8	42.9	42.5	41.5	41.5	41.5	41.5
17.5°	52.6	52.1	52.1	51.2	49.8	48.5	48.0	47.1	46.6	47.1	47.1
20°	58.6	58.6	59.5	59.1	56.8	54.5	53.5	52.6	51.7	52.1	52.1
22.5°	64.1	65.1	66.9	66.9	63.7	60.9	59.1	57.7	57.2	57.2	56.8
25°	69.7	71.5	74.3	76.1	71.1	66.4	64.1	62.3	61.8	61.8	61.8
27.5°	75.2	78.0	82.6	84.4	78.4	72.9	69.2	67.4	66.4	66.4	66.4
30°	80.3	84.4	90.9	92.3	85.8	79.4	74.8	72.0	71.1	71.1	71.1
32.5°	85.8	90.9	97.4	98.8	91.8	85.4	79.4	77.1	75.7	75.7	76.1
35°	90.9	97.4	103.4	104.3	98.8	90.9	84.4	82.1	81.2	80.8	80.8
37.5°	96.0	102.4	108.0	108.4	103.8	96.0	89.5	88.6	87.7	87.2	87.2
40°	101.5	108.0	111.7	111.7	108.4	101.5	95.1	96.0	96.9	97.4	96.4
42.5°	108.4	113.1	116.3	115.8	113.1	107.5	101.5	106.6	111.2	112.1	112.1
45°	113.1	117.7	120.4	119.5	117.7	113.5	111.2	122.3	132.9	136.1	135.7
47.5°	118.6	121.8	123.2	122.3	121.8	117.7	118.1	136.6	157.8	163.4	164.3
50°	122.7	125.1	125.5	124.1	124.1	121.4	125.1	149.1	178.6	182.7	184.6
52.5°	126.4	126.4	126.9	125.5	125.5	123.7	132.0	162.0	198.9	203.5	203.0
55°	127.4	125.1	126.4	125.1	124.1	124.1	137.1	174.0	216.0	219.2	218.7
57.5°	126.9	121.4	122.7	122.3	120.4	122.7	140.7	181.4	223.8	228.0	227.0
60°	126.0	116.3	118.1	117.2	114.9	120.9	143.1	185.0	229.8	233.5	233.0
62.5°	124.6	110.3	112.1	111.2	108.0	119.5	144.9	188.3	233.0	237.7	236.7
65°	122.3	101.1	104.8	103.4	98.8	116.7	142.6	186.9	237.7	241.3	241.8
67.5°	118.1	90.4	94.1	93.2	90.4	114.0	136.1	180.4	233.5	237.7	238.6
70°	110.3	77.5	80.3	81.7	80.3	108.9	127.4	168.0	222.4	226.6	228.4
72.5°	99.7	65.1	66.4	69.2	68.8	101.1	115.4	150.9	206.3	211.8	212.7
75°	84.9	54.5	52.6	54.5	57.2	89.1	100.1	130.1	185.5	190.6	190.1
77.5°	67.8	42.9	38.3	39.7	45.2	73.8	83.5	106.6	158.7	164.3	166.1
80°	45.7	30.5	24.9	26.8	32.8	54.9	63.2	78.0	128.3	132.9	133.4
82.5°	22.1	17.5	15.7	16.6	19.8	32.3	41.1	49.4	90.9	91.4	92.3
85°	6.9	8.3	7.8	8.8	9.2	11.1	16.6	19.8	42.5	42.9	43.8
87.5°	4.6	5.1	5.1	5.1	5.1	4.6	5.1	5.1	6.0	6.0	6.0
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)