

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: P188990

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P188990
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-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: 396.5 lumens
Efficiency: N/A
Efficacy: 36.0 lumens/watt
Luminous Opening: Circular (Dia: 4.75' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G0

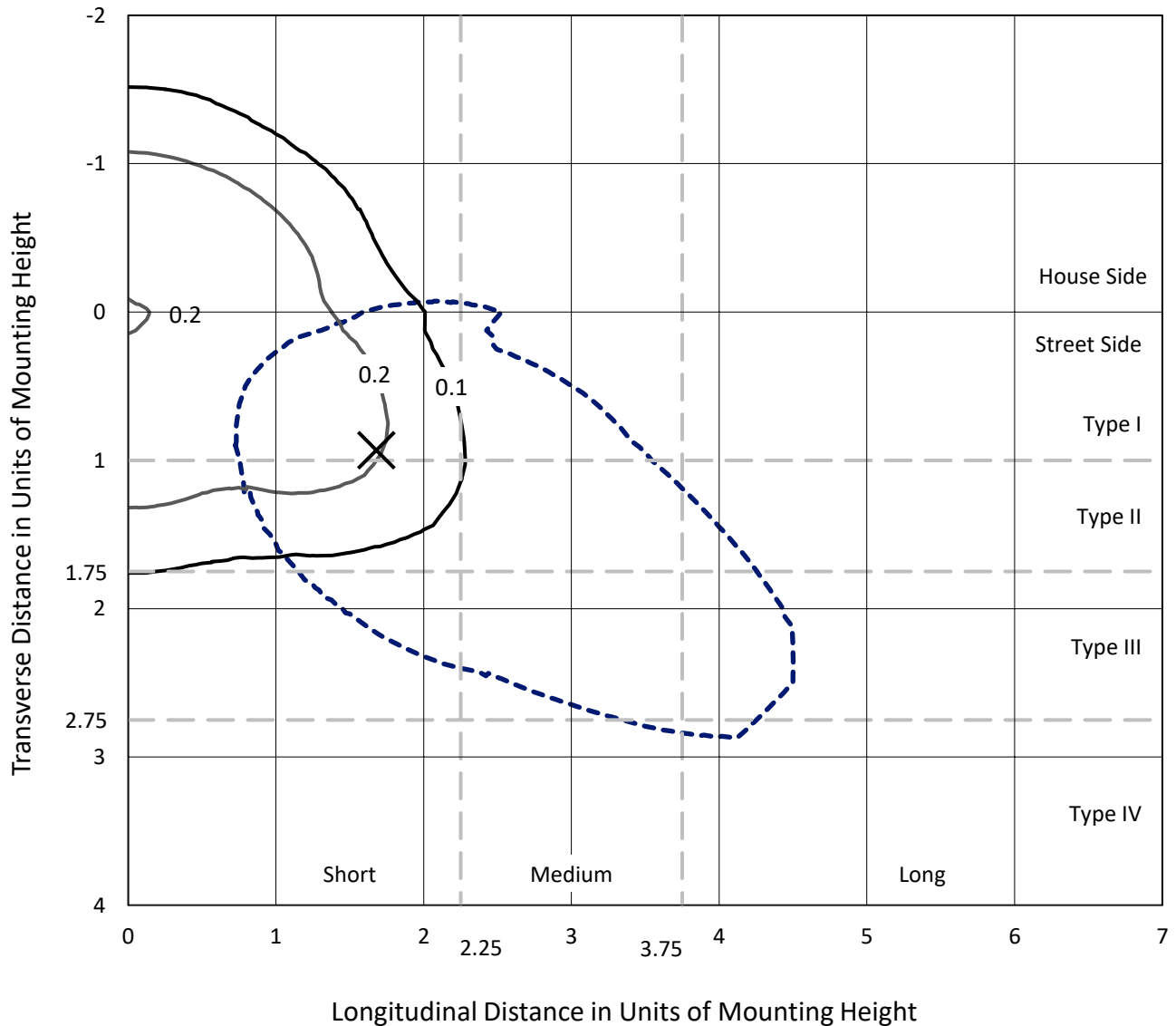
Input Watts (W): 11
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

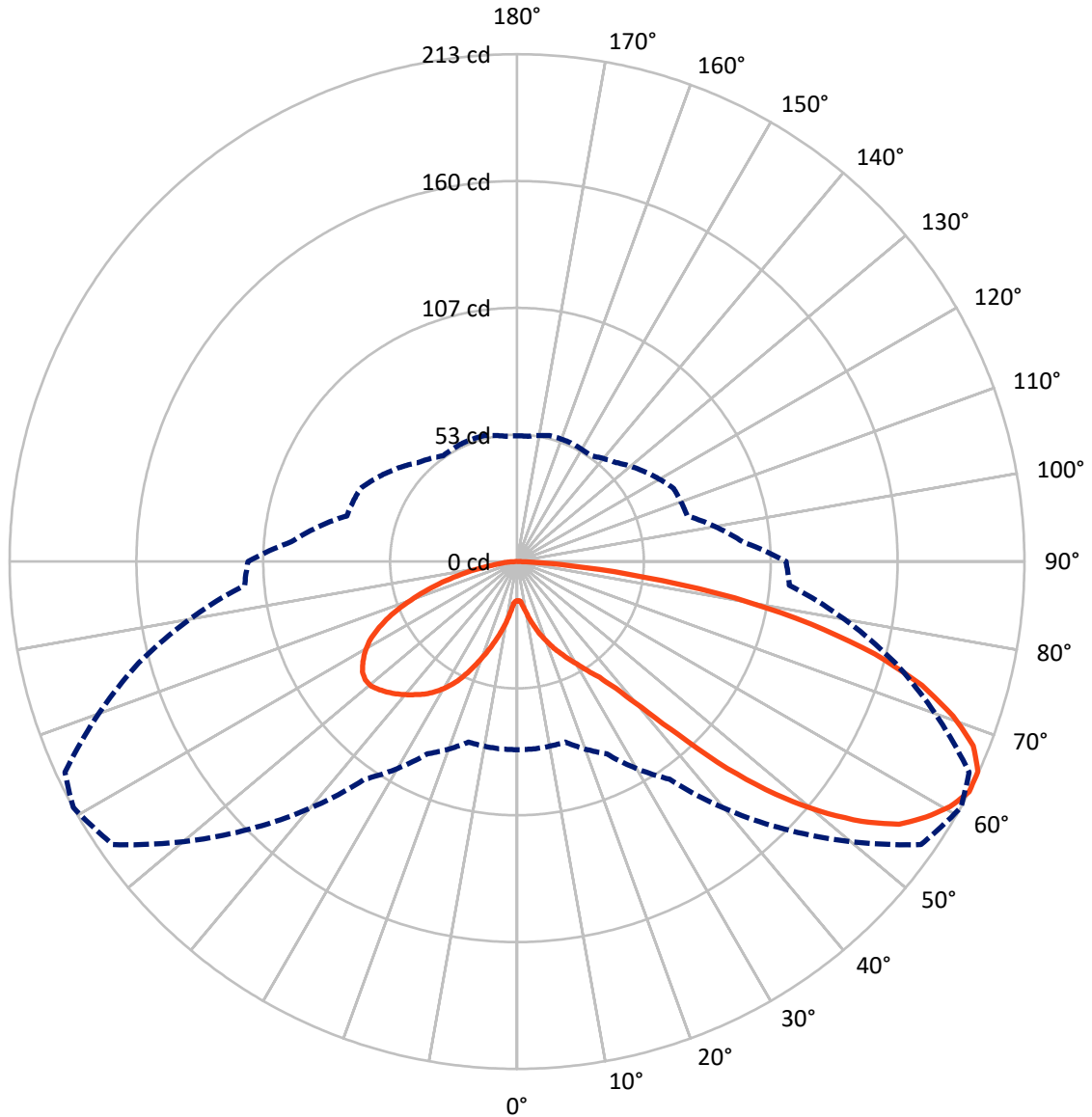
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.4 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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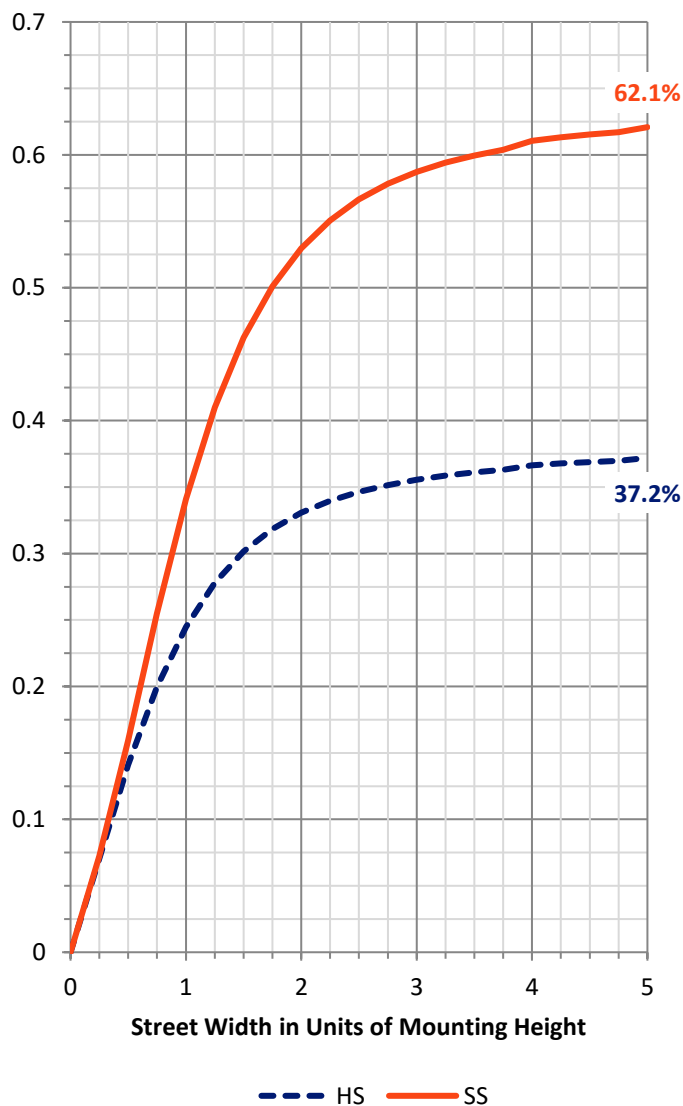
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	148.9	0.0	148.9
	% Fixture	37.5	0.0	37.5
Street Side	Lumens	247.6	0.0	247.6
	% Fixture	62.5	0.0	62.5
Total	Lumens	396.5	0.0	396.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.5
10°-20°	9.1	2.3
20°-30°	22.0	5.6
30°-40°	39.5	10.0
40°-50°	64.8	16.3
50°-60°	90.0	22.7
60°-70°	94.0	23.7
70°-80°	62.8	15.8
80°-90°	12.4	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°	396.5	100.0
0°-180°	396.5	100.0

Coefficient of Utilization



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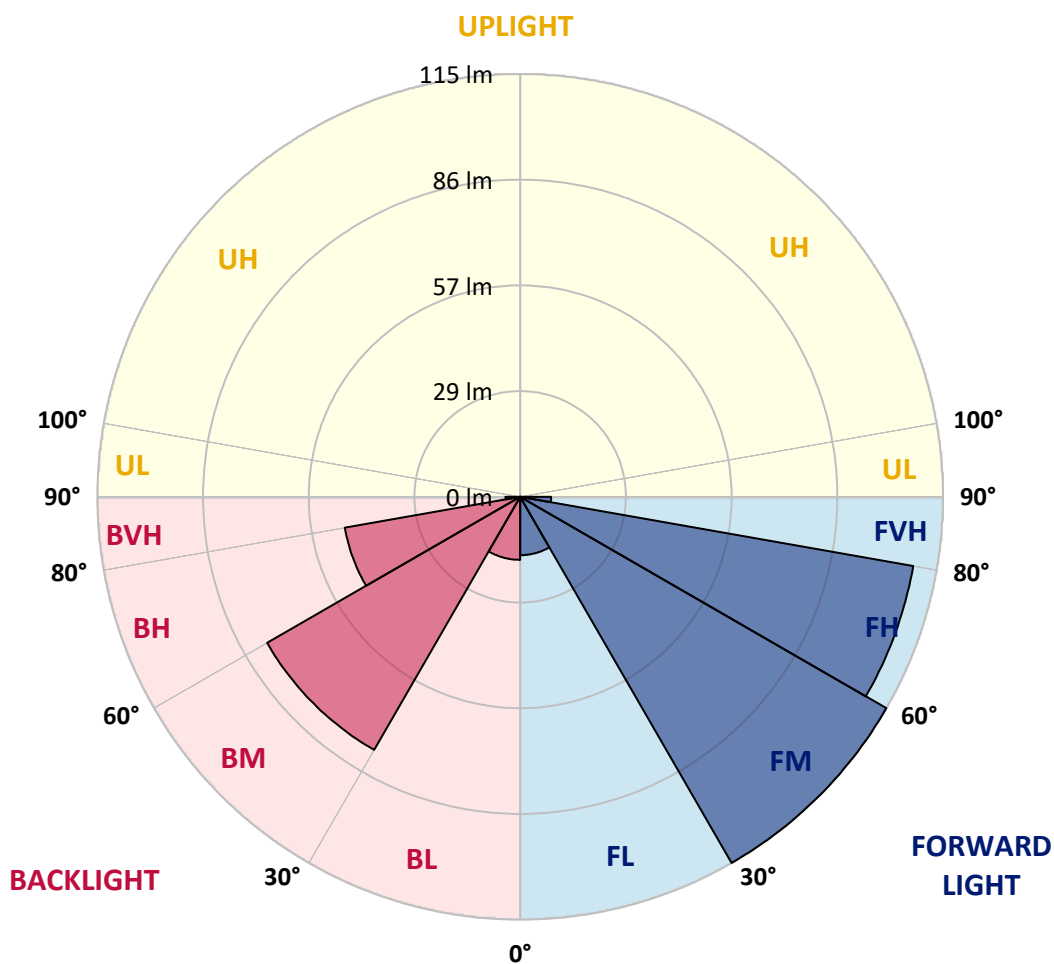
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	15.9	4.0			
FM	(30°-60°)	114.9	29.0			
FH	(60°-80°)	108.5	27.4			G0/660
FVH	(80°-90°)	8.4	2.1			G0/10
BL	(0°-30°)	17.1	4.3	B0/110		
BM	(30°-60°)	79.4	20.0	B0/220		
BH	(60°-80°)	48.4	12.2	B0/110		G0/110
BVH	(80°-90°)	4.0	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-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	61°	65°	75°	85°
0°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
2.5°	16.1	16.1	16.1	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
5°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.5	17.5
7.5°	19.8	19.8	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
10°	22.0	22.5	22.0	22.5	22.5	22.5	22.0	22.0	22.5	22.5	22.5
12.5°	25.3	25.3	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	26.2
15°	28.9	29.4	29.9	29.9	29.9	28.9	28.9	28.9	28.9	29.4	29.4
17.5°	34.4	34.4	33.5	33.5	33.1	33.1	32.6	32.6	32.6	32.2	32.6
20°	40.4	40.0	38.6	38.1	37.2	36.3	35.8	35.8	35.8	35.8	36.3
22.5°	46.9	46.4	44.1	42.3	41.3	40.0	39.5	39.5	39.0	39.0	39.0
25°	53.7	53.3	49.6	46.9	45.5	44.1	43.2	42.7	42.7	42.3	42.3
27.5°	61.1	60.2	55.1	51.4	49.6	47.8	46.9	46.4	45.9	45.5	45.5
30°	67.5	66.6	61.1	56.0	53.3	51.9	51.0	50.1	49.6	48.7	48.7
32.5°	73.0	72.1	66.1	60.2	57.0	56.5	55.6	54.7	54.2	52.8	52.4
35°	76.7	76.2	70.7	64.8	61.1	61.5	61.1	59.7	59.3	57.4	56.5
37.5°	79.9	79.5	74.9	68.9	65.7	68.0	68.9	67.5	67.1	63.4	60.6
40°	82.2	82.2	78.1	73.0	70.7	78.5	80.8	80.4	78.5	71.7	66.1
42.5°	84.5	84.5	81.8	77.6	77.2	90.0	99.7	99.2	96.5	83.6	73.0
45°	87.3	87.3	85.0	81.3	83.1	101.1	118.0	124.0	120.8	99.2	82.2
47.5°	88.7	89.1	87.7	85.4	90.0	112.5	139.2	146.1	144.7	113.9	89.6
50°	90.0	90.0	90.0	88.7	96.5	125.9	158.9	164.9	161.2	129.1	97.8
52.5°	90.9	91.4	90.9	90.9	102.0	137.8	177.8	181.4	178.7	142.9	104.3
55°	90.0	90.5	90.0	91.9	107.0	147.4	190.6	194.8	191.5	153.0	109.8
57.5°	87.3	87.7	87.3	90.9	109.8	154.3	197.5	202.6	198.4	158.9	113.5
60°	83.6	84.1	83.1	90.0	111.2	158.5	204.9	209.0	205.3	163.1	115.8
62.5°	79.0	79.0	78.5	89.1	111.6	158.9	207.2	213.1	209.5	164.4	114.8
65°	73.0	72.6	70.3	87.7	108.9	155.3	207.6	212.7	208.5	161.7	111.2
67.5°	64.8	64.3	61.1	85.9	103.3	146.5	201.6	206.7	202.6	153.9	105.2
70°	55.6	54.2	51.9	81.3	95.1	133.7	189.2	194.3	189.7	141.0	96.5
72.5°	42.7	43.2	42.3	73.5	84.1	116.7	171.3	177.8	172.2	122.2	86.4
75°	31.7	31.2	33.5	62.9	70.7	96.5	148.8	155.3	150.7	100.6	74.0
77.5°	21.1	20.7	25.7	49.6	55.6	74.9	122.2	126.3	120.8	76.7	59.7
80°	12.9	12.4	17.5	33.5	35.4	52.4	89.6	92.8	87.3	50.5	43.6
82.5°	6.9	7.3	9.6	16.1	13.8	30.8	51.0	53.7	47.8	21.6	27.6
85°	4.1	3.7	4.1	3.7	4.6	12.9	20.2	22.5	20.2	7.8	11.9
87.5°	3.2	3.2	3.2	2.8	2.8	3.2	3.7	3.7	3.7	3.2	3.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
2.5°	16.5	16.5	16.5	16.5	17.0	17.0	17.0	16.5	16.5	16.5	16.5
5°	17.5	17.5	17.5	17.5	17.9	18.4	18.8	18.8	18.8	18.8	18.8
7.5°	19.8	19.8	20.7	20.7	21.1	21.6	22.0	22.0	22.0	22.0	22.5
10°	23.0	23.4	24.3	24.8	25.3	25.7	25.7	25.7	25.7	25.7	25.7
12.5°	26.2	26.6	27.6	28.5	29.4	29.9	29.9	29.4	28.9	28.9	29.4
15°	29.9	30.3	31.2	32.6	34.0	34.4	34.4	33.5	33.1	32.6	32.6
17.5°	33.1	33.5	34.4	36.7	38.6	39.0	38.1	37.7	36.7	35.8	35.8
20°	36.7	36.7	38.6	41.3	43.6	43.6	42.7	41.3	40.4	39.5	39.5
22.5°	39.5	40.4	42.7	46.4	48.2	48.2	46.9	45.5	44.1	42.7	42.7
25°	42.7	43.6	46.9	51.4	53.3	52.4	51.0	48.7	46.9	45.5	45.5
27.5°	45.9	47.3	51.4	56.0	58.3	56.5	54.2	51.9	49.6	48.2	47.8
30°	49.6	51.0	55.6	60.2	62.0	59.7	57.0	54.7	51.9	50.5	50.1
32.5°	53.3	55.1	59.7	63.8	65.2	62.9	59.7	57.0	53.7	52.4	52.4
35°	57.4	59.3	64.3	67.5	67.5	65.7	62.0	58.8	55.6	54.2	53.7
37.5°	61.5	63.4	68.4	70.3	69.4	67.5	63.8	60.2	57.4	55.6	55.6
40°	66.6	68.4	72.6	73.0	71.7	68.9	65.7	62.0	59.3	57.9	57.9
42.5°	72.1	73.5	76.7	75.8	73.5	70.3	67.5	64.8	62.0	60.6	60.6
45°	79.0	79.9	81.8	78.5	74.9	71.2	68.0	65.2	63.4	62.9	62.9
47.5°	85.0	83.6	85.4	80.8	76.2	71.7	68.0	65.2	63.8	63.8	63.8
50°	89.6	87.3	87.7	82.7	77.2	71.7	67.5	64.8	63.8	63.8	63.8
52.5°	95.5	89.6	89.1	83.6	76.7	70.7	66.1	63.8	63.8	63.4	63.4
55°	100.6	90.9	87.7	82.7	75.3	68.4	64.3	62.5	62.5	61.5	61.5
57.5°	105.6	91.4	85.0	79.9	73.0	65.7	61.5	60.2	60.2	59.3	58.8
60°	110.2	93.2	80.8	76.7	69.8	62.5	58.3	57.9	57.4	56.0	56.0
62.5°	113.0	95.1	74.0	72.6	65.7	58.8	54.2	54.7	54.7	52.8	52.8
65°	113.0	95.5	67.1	66.6	60.2	53.7	49.6	51.4	51.0	49.1	49.1
67.5°	108.9	93.2	61.1	59.7	53.7	48.7	45.5	46.9	46.4	45.0	45.0
70°	101.1	87.3	55.1	51.4	45.9	41.8	40.4	42.3	41.3	40.0	40.4
72.5°	90.5	77.6	49.1	42.7	38.1	35.4	34.9	36.7	35.4	35.4	34.4
75°	76.7	65.2	40.0	34.0	30.3	28.9	28.9	30.3	29.4	28.9	28.9
77.5°	58.8	48.7	29.4	24.8	23.0	23.0	23.0	23.9	23.4	23.4	23.0
80°	38.6	29.9	18.4	17.0	16.1	16.5	16.5	17.0	17.0	17.5	17.5
82.5°	22.5	15.2	9.6	9.2	9.6	10.6	9.6	10.1	10.6	11.5	11.5
85°	8.3	6.9	5.5	6.0	6.0	5.5	4.6	5.1	5.1	5.5	5.5
87.5°	2.8	2.8	3.2	3.2	3.7	3.7	3.2	3.2	3.7	4.6	4.6
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)