

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: P188987

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P188987
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
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: 863.4 lumens
Efficiency: N/A
Efficacy: 37.5 lumens/watt
Luminous Opening: Circular (Dia: 4.75' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

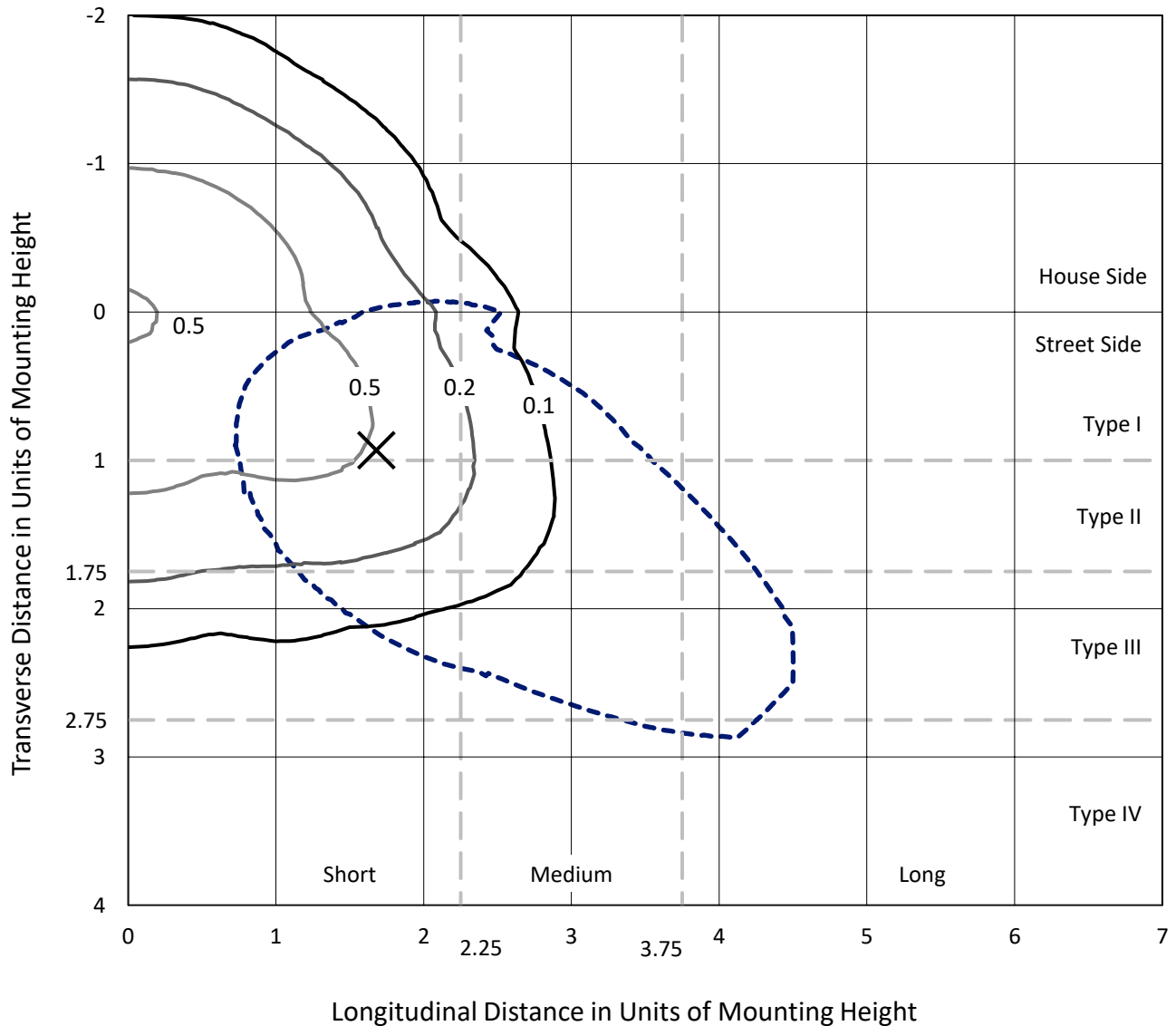
Input Watts (W): 23
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

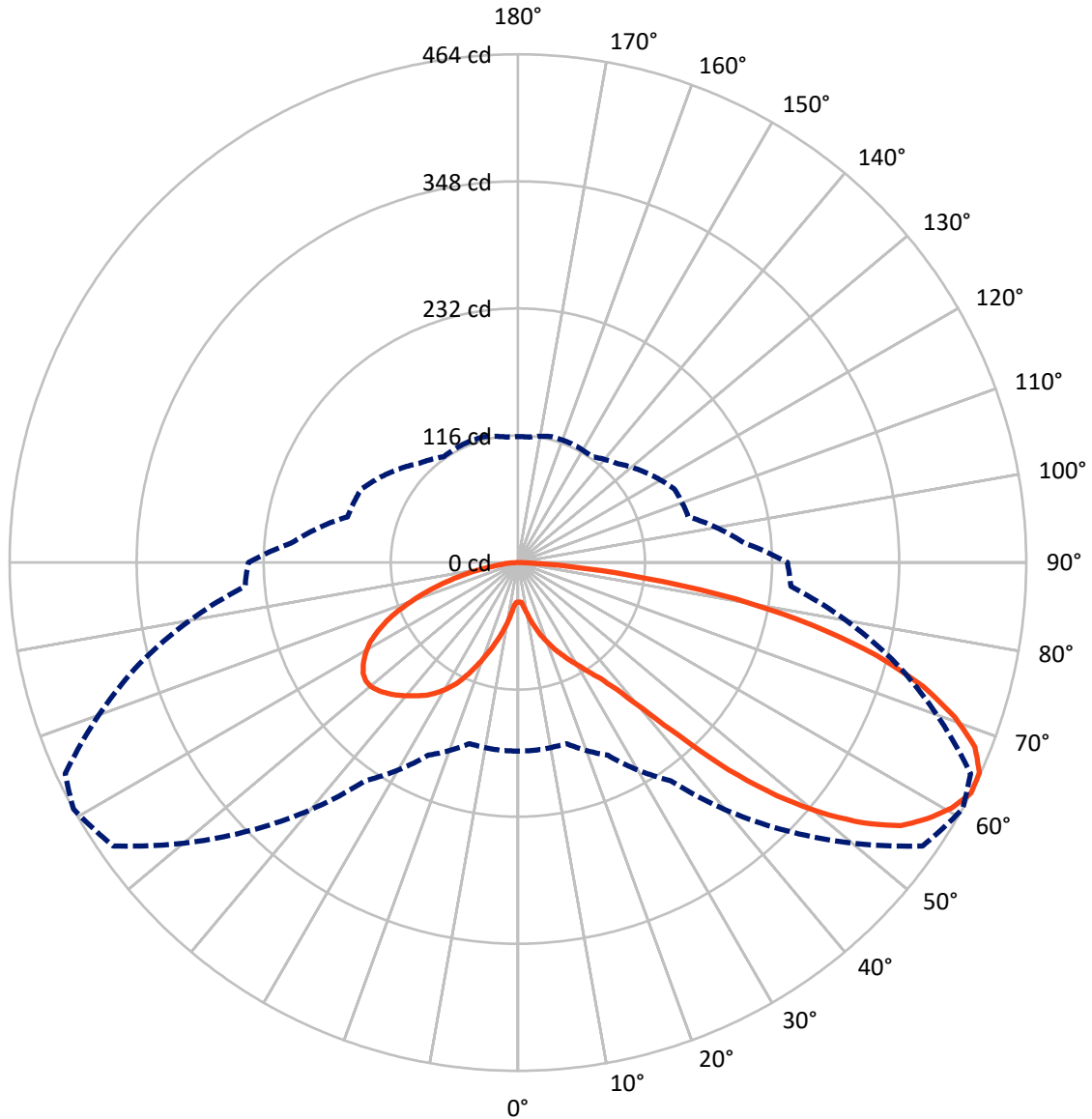
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1 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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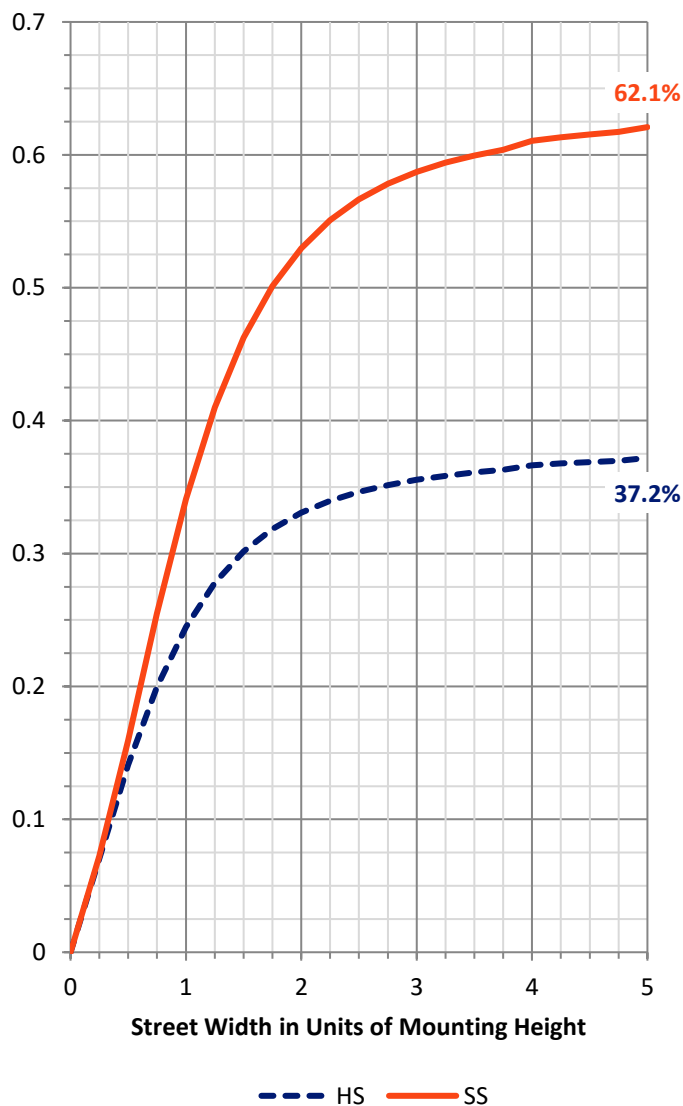
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	324.2	0.0	324.2
	% Fixture	37.5	0.0	37.5
Street Side	Lumens	539.2	0.0	539.2
	% Fixture	62.5	0.0	62.5
Total	Lumens	863.4	0.0	863.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.5
10°-20°	19.7	2.3
20°-30°	47.9	5.6
30°-40°	86.0	10.0
40°-50°	141.1	16.3
50°-60°	196.1	22.7
60°-70°	204.7	23.7
70°-80°	136.7	15.8
80°-90°	27.0	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°	863.4	100.0
0°-180°	863.4	100.0

Coefficient of Utilization



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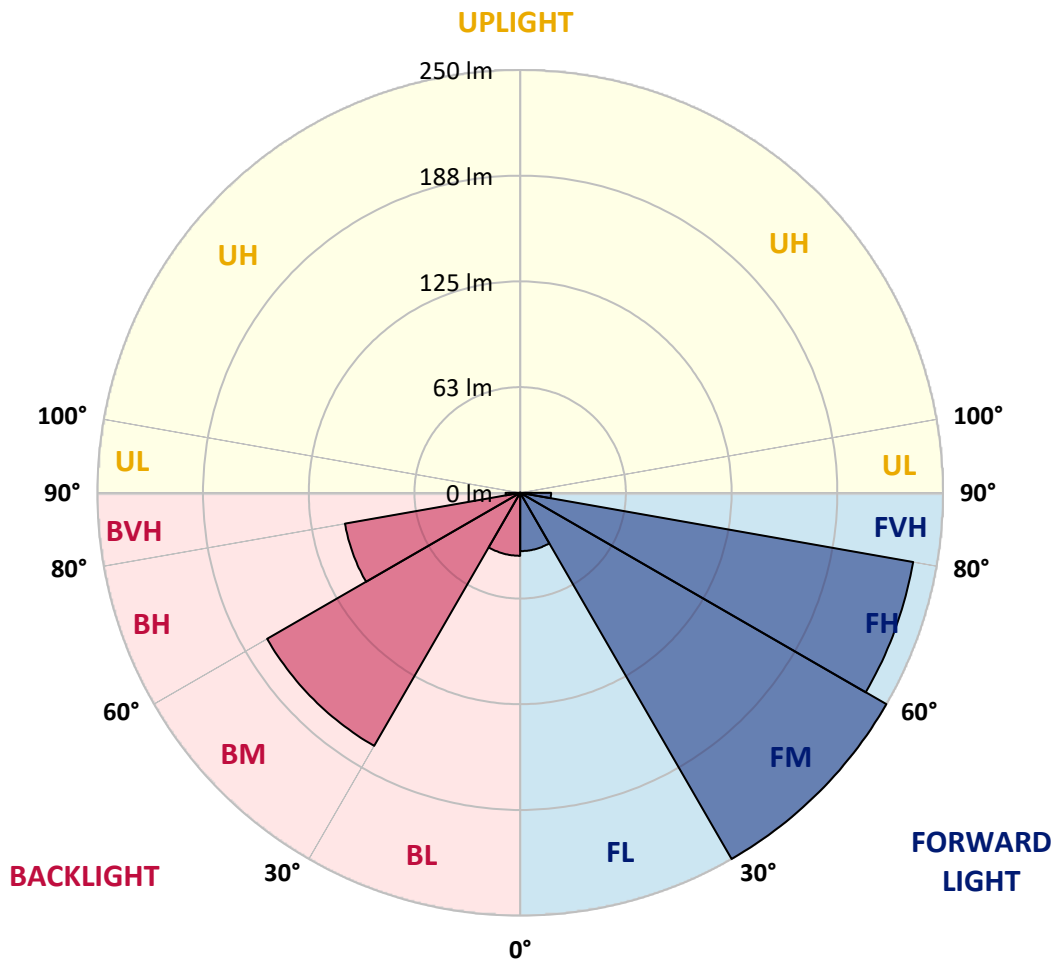
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	34.5	4.0			
FM	(30°-60°)	250.2	29.0			
FH	(60°-80°)	236.2	27.4			G0/660
FVH	(80°-90°)	18.3	2.1			G1/100
BL	(0°-30°)	37.3	4.3	B0/110		
BM	(30°-60°)	172.9	20.0	B0/220		
BH	(60°-80°)	105.3	12.2	B0/110		G0/110
BVH	(80°-90°)	8.7	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°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
2.5°	35.0	35.0	35.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
5°	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	38.0	38.0
7.5°	43.0	43.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
10°	48.0	49.0	48.0	49.0	49.0	49.0	48.0	48.0	49.0	49.0	49.0
12.5°	55.0	55.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	57.0
15°	63.0	64.0	65.0	65.0	65.0	63.0	63.0	63.0	63.0	64.0	64.0
17.5°	75.0	75.0	73.0	73.0	72.0	72.0	71.0	71.0	71.0	70.0	71.0
20°	88.0	87.0	84.0	83.0	81.0	79.0	78.0	78.0	78.0	78.0	79.0
22.5°	102.0	101.0	96.0	92.0	90.0	87.0	86.0	86.0	85.0	85.0	85.0
25°	117.0	116.0	108.0	102.0	99.0	96.0	94.0	93.0	93.0	92.0	92.0
27.5°	133.0	131.0	120.0	112.0	108.0	104.0	102.0	101.0	100.0	99.0	99.0
30°	147.0	145.0	133.0	122.0	116.0	113.0	111.0	109.0	108.0	106.0	106.0
32.5°	159.0	157.0	144.0	131.0	124.0	123.0	121.0	119.0	118.0	115.0	114.0
35°	167.1	166.1	154.0	141.0	133.0	134.0	133.0	130.0	129.0	125.0	123.0
37.5°	174.1	173.1	163.1	150.0	143.0	148.0	150.0	147.0	146.0	138.0	132.0
40°	179.1	179.1	170.1	159.0	154.0	171.1	176.1	175.1	171.1	156.0	144.0
42.5°	184.1	184.1	178.1	169.1	168.1	196.1	217.1	216.1	210.1	182.1	159.0
45°	190.1	190.1	185.1	177.1	181.1	220.1	257.1	270.1	263.1	216.1	179.1
47.5°	193.1	194.1	191.1	186.1	196.1	245.1	303.1	318.1	315.1	248.1	195.1
50°	196.1	196.1	196.1	193.1	210.1	274.1	346.1	359.1	351.1	281.1	213.1
52.5°	198.1	199.1	198.1	198.1	222.1	300.1	387.1	395.1	389.1	311.1	227.1
55°	196.1	197.1	196.1	200.1	233.1	321.1	415.1	424.1	417.1	333.1	239.1
57.5°	190.1	191.1	190.1	198.1	239.1	336.1	430.1	441.1	432.1	346.1	247.1
60°	182.1	183.1	181.1	196.1	242.1	345.1	446.1	455.1	447.1	355.1	252.1
62.5°	172.1	172.1	171.1	194.1	243.1	346.1	451.1	464.1	456.1	358.1	250.1
65°	159.0	158.0	153.0	191.1	237.1	338.1	452.1	463.1	454.1	352.1	242.1
67.5°	141.0	140.0	133.0	187.1	225.1	319.1	439.1	450.1	441.1	335.1	229.1
70°	121.0	118.0	113.0	177.1	207.1	291.1	412.1	423.1	413.1	307.1	210.1
72.5°	93.0	94.0	92.0	160.0	183.1	254.1	373.1	387.1	375.1	266.1	188.1
75°	69.0	68.0	73.0	137.0	154.0	210.1	324.1	338.1	328.1	219.1	161.1
77.5°	46.0	45.0	56.0	108.0	121.0	163.1	266.1	275.1	263.1	167.1	130.0
80°	28.0	27.0	38.0	73.0	77.0	114.0	195.1	202.1	190.1	110.0	95.0
82.5°	15.0	16.0	21.0	35.0	30.0	67.0	111.0	117.0	104.0	47.0	60.0
85°	9.0	8.0	9.0	8.0	10.0	28.0	44.0	49.0	44.0	17.0	26.0
87.5°	7.0	7.0	7.0	6.0	6.0	7.0	8.0	8.0	8.0	7.0	7.0
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°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
2.5°	36.0	36.0	36.0	36.0	37.0	37.0	37.0	36.0	36.0	36.0	36.0
5°	38.0	38.0	38.0	38.0	39.0	40.0	41.0	41.0	41.0	41.0	41.0
7.5°	43.0	43.0	45.0	45.0	46.0	47.0	48.0	48.0	48.0	48.0	49.0
10°	50.0	51.0	53.0	54.0	55.0	56.0	56.0	56.0	56.0	56.0	56.0
12.5°	57.0	58.0	60.0	62.0	64.0	65.0	65.0	64.0	63.0	63.0	64.0
15°	65.0	66.0	68.0	71.0	74.0	75.0	75.0	73.0	72.0	71.0	71.0
17.5°	72.0	73.0	75.0	80.0	84.0	85.0	83.0	82.0	80.0	78.0	78.0
20°	80.0	80.0	84.0	90.0	95.0	95.0	93.0	90.0	88.0	86.0	86.0
22.5°	86.0	88.0	93.0	101.0	105.0	105.0	102.0	99.0	96.0	93.0	93.0
25°	93.0	95.0	102.0	112.0	116.0	114.0	111.0	106.0	102.0	99.0	99.0
27.5°	100.0	103.0	112.0	122.0	127.0	123.0	118.0	113.0	108.0	105.0	104.0
30°	108.0	111.0	121.0	131.0	135.0	130.0	124.0	119.0	113.0	110.0	109.0
32.5°	116.0	120.0	130.0	139.0	142.0	137.0	130.0	124.0	117.0	114.0	114.0
35°	125.0	129.0	140.0	147.0	147.0	143.0	135.0	128.0	121.0	118.0	117.0
37.5°	134.0	138.0	149.0	153.0	151.0	147.0	139.0	131.0	125.0	121.0	121.0
40°	145.0	149.0	158.0	159.0	156.0	150.0	143.0	135.0	129.0	126.0	126.0
42.5°	157.0	160.0	167.1	165.1	160.0	153.0	147.0	141.0	135.0	132.0	132.0
45°	172.1	174.1	178.1	171.1	163.1	155.0	148.0	142.0	138.0	137.0	137.0
47.5°	185.1	182.1	186.1	176.1	166.1	156.0	148.0	142.0	139.0	139.0	139.0
50°	195.1	190.1	191.1	180.1	168.1	156.0	147.0	141.0	139.0	139.0	139.0
52.5°	208.1	195.1	194.1	182.1	167.1	154.0	144.0	139.0	139.0	138.0	138.0
55°	219.1	198.1	191.1	180.1	164.1	149.0	140.0	136.0	136.0	134.0	134.0
57.5°	230.1	199.1	185.1	174.1	159.0	143.0	134.0	131.0	131.0	129.0	128.0
60°	240.1	203.1	176.1	167.1	152.0	136.0	127.0	126.0	125.0	122.0	122.0
62.5°	246.1	207.1	161.1	158.0	143.0	128.0	118.0	119.0	119.0	115.0	115.0
65°	246.1	208.1	146.0	145.0	131.0	117.0	108.0	112.0	111.0	107.0	107.0
67.5°	237.1	203.1	133.0	130.0	117.0	106.0	99.0	102.0	101.0	98.0	98.0
70°	220.1	190.1	120.0	112.0	100.0	91.0	88.0	92.0	90.0	87.0	88.0
72.5°	197.1	169.1	107.0	93.0	83.0	77.0	76.0	80.0	77.0	77.0	75.0
75°	167.1	142.0	87.0	74.0	66.0	63.0	63.0	66.0	64.0	63.0	63.0
77.5°	128.0	106.0	64.0	54.0	50.0	50.0	50.0	52.0	51.0	51.0	50.0
80°	84.0	65.0	40.0	37.0	35.0	36.0	36.0	37.0	37.0	38.0	38.0
82.5°	49.0	33.0	21.0	20.0	21.0	23.0	21.0	22.0	23.0	25.0	25.0
85°	18.0	15.0	12.0	13.0	13.0	12.0	10.0	11.0	11.0	12.0	12.0
87.5°	6.0	6.0	7.0	7.0	8.0	8.0	7.0	7.0	8.0	10.0	10.0
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)