

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: P188985

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P188985
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-B2-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: 1051.9 lumens
Efficiency: N/A
Efficacy: 32.9 lumens/watt
Luminous Opening: Circular (Dia: 4.75' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

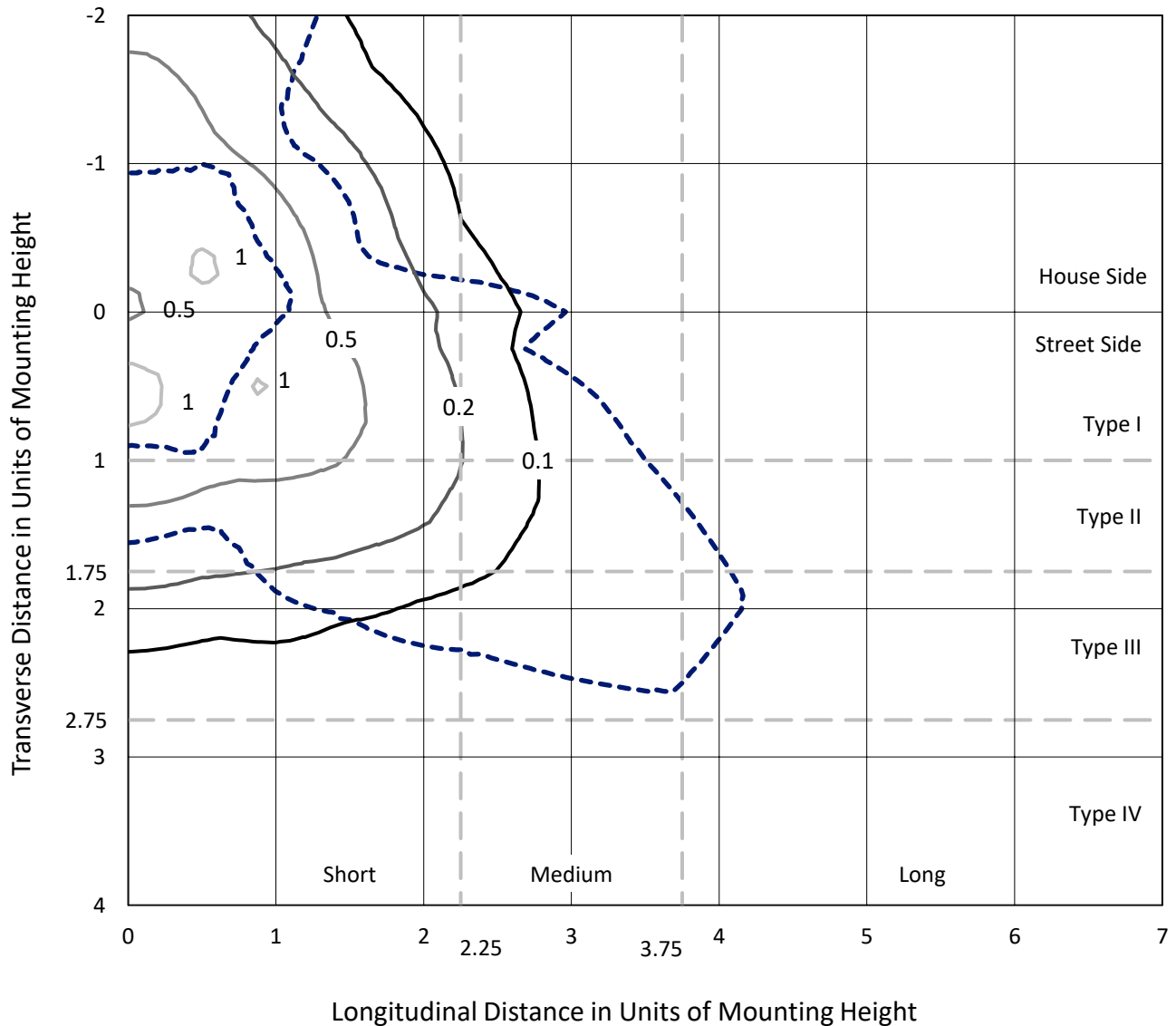
Input Watts (W): 32
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

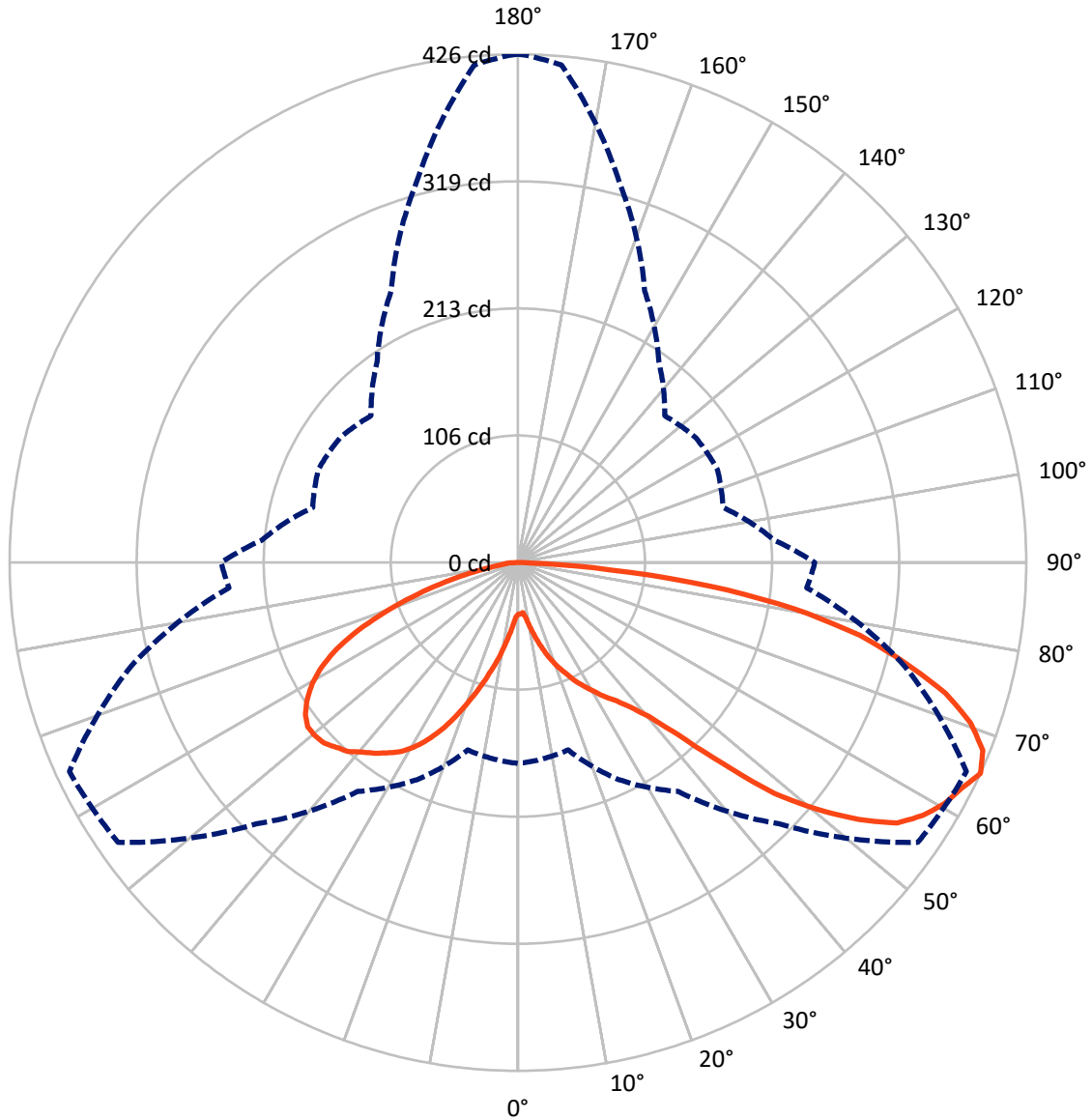
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.2 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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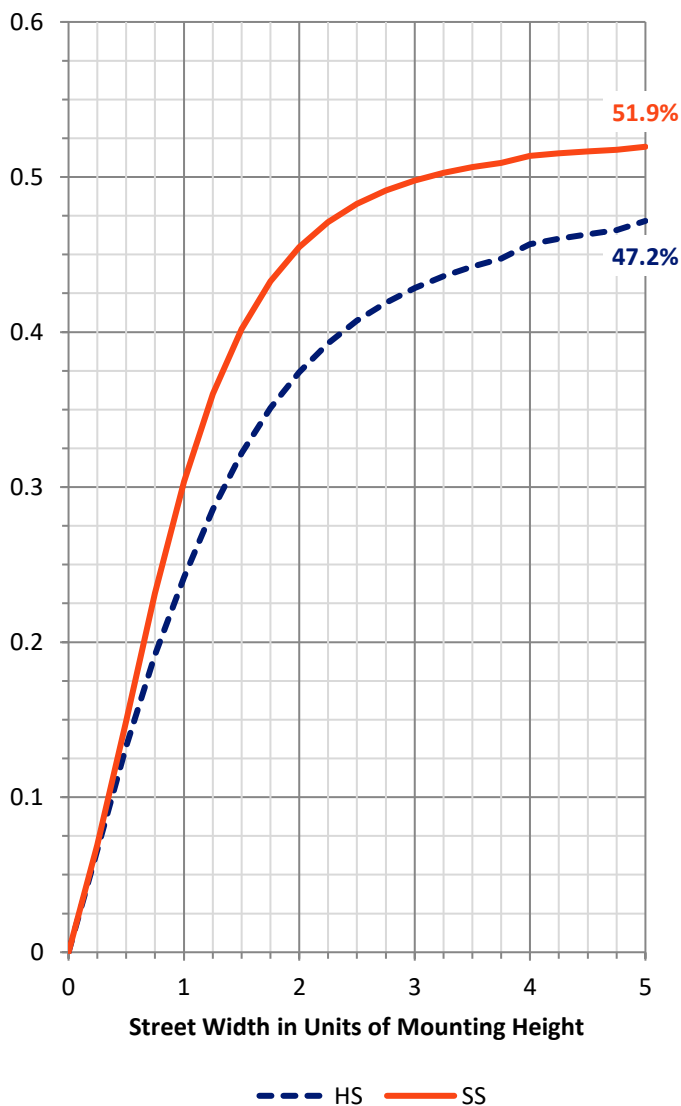
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	503.4	0.0	503.4
	% Fixture	47.9	0.0	47.9
Street Side	Lumens	548.4	0.0	548.4
	% Fixture	52.1	0.0	52.1
Total	Lumens	1051.9	0.0	1051.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.5
10°-20°	24.1	2.3
20°-30°	58.2	5.5
30°-40°	104.3	9.9
40°-50°	171.9	16.3
50°-60°	239.8	22.8
60°-70°	250.2	23.8
70°-80°	166.5	15.8
80°-90°	31.8	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°	1051.9	100.0
0°-180°	1051.9	100.0



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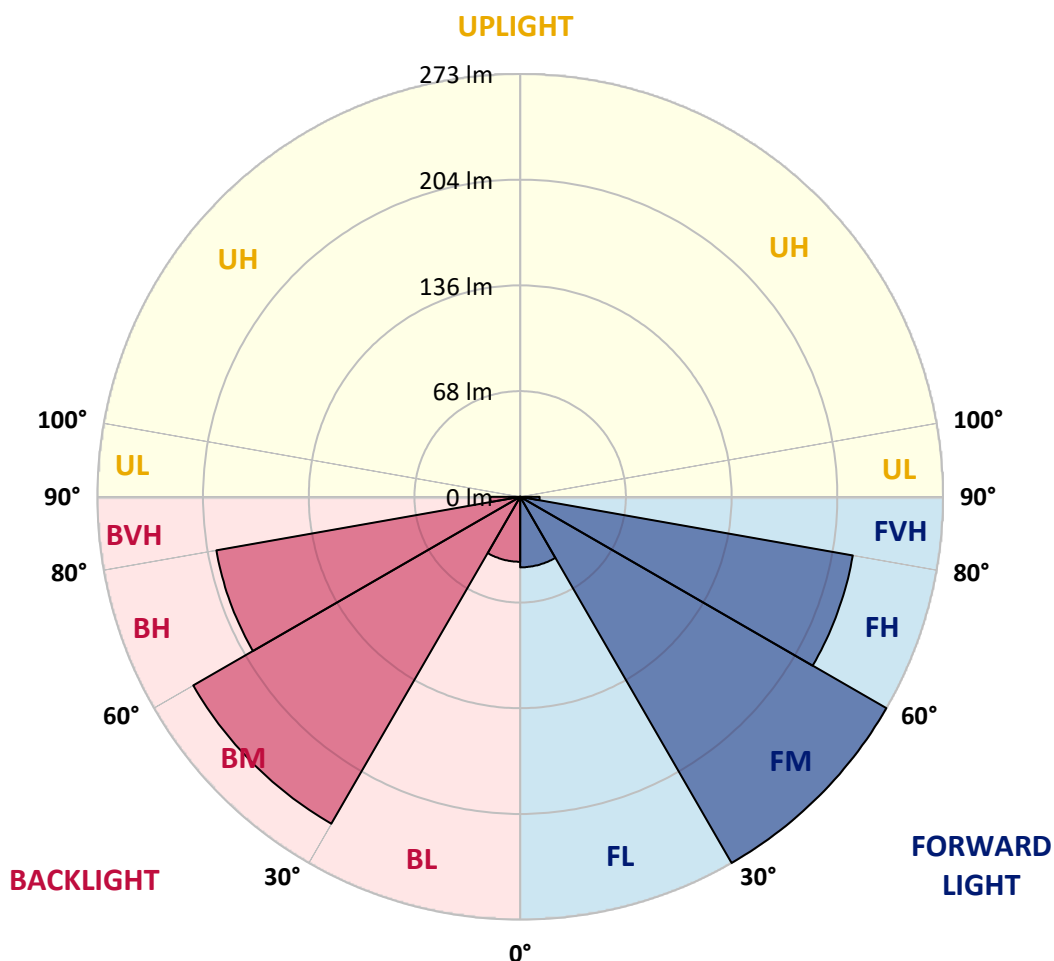
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	45.5	4.3			
FM	(30°-60°)	272.6	25.9			
FH	(60°-80°)	217.8	20.7			G0/660
FVH	(80°-90°)	12.5	1.2			G1/100
BL	(0°-30°)	41.9	4.0	B0/110		
BM	(30°-60°)	243.4	23.1	B1/1000		
BH	(60°-80°)	198.9	18.9	B1/500		G1/500
BVH	(80°-90°)	19.3	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°	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
2.5°	45.5	44.7	44.7	43.9	44.7	43.9	43.1	43.1	43.1	43.1	43.1
5°	52.8	52.8	52.8	53.6	52.8	51.2	50.4	49.6	47.9	47.1	46.3
7.5°	61.7	62.6	62.6	63.4	61.7	60.1	58.5	56.9	55.2	54.4	53.6
10°	72.3	73.1	72.3	72.3	71.5	69.9	67.4	65.8	64.2	63.4	63.4
12.5°	84.5	83.7	82.9	82.9	80.4	78.0	76.4	74.7	73.9	73.1	73.1
15°	95.9	96.7	94.2	92.6	90.2	87.7	86.1	83.7	82.9	82.9	82.9
17.5°	109.7	108.9	105.6	103.2	99.9	96.7	94.2	93.4	91.8	91.8	92.6
20°	123.5	121.9	117.8	112.9	109.7	106.4	103.2	102.4	100.7	101.6	102.4
22.5°	138.9	137.3	129.2	122.7	118.6	114.6	111.3	110.5	109.7	111.3	112.1
25°	153.6	151.9	141.4	133.2	127.6	123.5	119.4	118.6	118.6	121.1	121.1
27.5°	166.6	164.9	153.6	142.2	135.7	131.6	128.4	127.6	127.6	129.2	130.8
30°	177.9	176.3	164.9	151.9	143.8	139.7	137.3	136.5	136.5	138.1	138.9
32.5°	186.9	185.2	175.5	160.9	151.9	148.7	147.9	146.2	146.2	147.1	148.7
35°	193.4	191.7	185.2	170.6	160.1	158.4	159.2	157.6	156.8	156.0	156.8
37.5°	199.9	199.1	192.6	179.6	169.0	172.2	174.7	175.5	171.4	164.9	165.7
40°	205.6	205.6	200.7	189.3	179.6	190.1	203.1	203.1	193.4	176.3	176.3
42.5°	212.9	212.9	209.6	199.1	194.2	216.1	241.3	242.9	220.2	194.2	190.1
45°	216.9	218.6	216.9	207.2	207.2	238.9	286.0	288.4	246.2	208.0	199.9
47.5°	221.8	221.8	221.8	212.9	219.4	263.2	319.3	324.2	271.4	224.2	211.2
50°	223.4	225.1	224.2	218.6	232.4	285.2	355.9	358.3	299.0	237.2	221.8
52.5°	223.4	223.4	222.6	217.7	241.3	307.1	384.3	387.5	323.4	248.6	231.6
55°	218.6	217.7	216.1	216.1	248.6	320.1	400.5	407.0	338.8	255.1	237.2
57.5°	210.4	209.6	208.0	212.9	251.1	326.6	409.5	414.4	348.5	256.7	242.1
60°	199.9	199.9	195.8	209.6	251.9	328.2	417.6	422.5	351.0	257.6	247.0
62.5°	186.1	186.1	182.0	207.2	245.4	323.4	418.4	424.1	348.5	252.7	249.4
65°	168.2	166.6	162.5	200.7	234.0	309.5	408.7	414.4	335.5	242.9	248.6
67.5°	145.4	143.8	140.6	189.3	215.3	285.2	389.2	394.9	311.2	227.5	240.5
70°	119.4	120.2	117.0	171.4	192.6	252.7	358.3	364.8	280.3	205.6	224.2
72.5°	92.6	93.4	96.7	147.9	167.4	215.3	316.0	324.2	243.7	182.8	199.1
75°	67.4	67.4	73.9	119.4	135.7	169.0	265.7	277.1	196.6	153.6	169.8
77.5°	45.5	44.7	52.8	83.7	100.7	123.5	209.6	218.6	149.5	117.8	131.6
80°	26.8	26.8	30.9	44.7	59.3	71.5	140.6	150.3	98.3	76.4	84.5
82.5°	14.6	14.6	13.8	14.6	21.1	23.6	60.1	72.3	48.7	31.7	34.1
85°	10.6	9.7	9.7	8.9	9.7	10.6	13.0	13.8	14.6	12.2	11.4
87.5°	8.1	8.1	8.1	6.5	7.3	8.1	10.6	10.6	8.9	8.1	7.3
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°	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
2.5°	43.1	43.1	43.1	43.1	43.1	43.1	43.9	43.1	43.1	43.1	43.1
5°	45.5	44.7	43.9	43.1	42.2	42.2	41.4	41.4	41.4	42.2	42.2
7.5°	53.6	52.8	51.2	49.6	48.7	47.1	45.5	45.5	45.5	46.3	46.3
10°	62.6	61.7	60.1	58.5	56.1	56.1	54.4	54.4	53.6	54.4	54.4
12.5°	72.3	71.5	70.7	68.2	67.4	65.8	64.2	64.2	64.2	63.4	63.4
15°	82.1	82.1	80.4	78.8	77.2	75.6	74.7	73.1	73.1	73.1	73.1
17.5°	92.6	91.8	91.8	90.2	87.7	85.3	84.5	82.9	82.1	82.9	82.9
20°	103.2	103.2	104.8	104.0	99.9	95.9	94.2	92.6	91.0	91.8	91.8
22.5°	112.9	114.6	117.8	117.8	112.1	107.2	104.0	101.6	100.7	100.7	99.9
25°	122.7	125.9	130.8	134.1	125.1	117.0	112.9	109.7	108.9	108.9	108.9
27.5°	132.4	137.3	145.4	148.7	138.1	128.4	121.9	118.6	117.0	117.0	117.0
30°	141.4	148.7	160.1	162.5	151.1	139.7	131.6	126.7	125.1	125.1	125.1
32.5°	151.1	160.1	171.4	173.9	161.7	150.3	139.7	135.7	133.2	133.2	134.1
35°	160.1	171.4	182.0	183.6	173.9	160.1	148.7	144.6	143.0	142.2	142.2
37.5°	169.0	180.4	190.1	190.9	182.8	169.0	157.6	156.0	154.4	153.6	153.6
40°	178.7	190.1	196.6	196.6	190.9	178.7	167.4	169.0	170.6	171.4	169.8
42.5°	190.9	199.1	204.7	203.9	199.1	189.3	178.7	187.7	195.8	197.4	197.4
45°	199.1	207.2	212.1	210.4	207.2	199.9	195.8	215.3	234.0	239.7	238.9
47.5°	208.8	214.5	216.9	215.3	214.5	207.2	208.0	240.5	277.9	287.6	289.2
50°	216.1	220.2	221.0	218.6	218.6	213.7	220.2	262.4	314.4	321.7	325.0
52.5°	222.6	222.6	223.4	221.0	221.0	217.7	232.4	285.2	350.2	358.3	357.5
55°	224.2	220.2	222.6	220.2	218.6	218.6	241.3	306.3	380.2	385.9	385.1
57.5°	223.4	213.7	216.1	215.3	212.1	216.1	247.8	319.3	394.0	401.4	399.7
60°	221.8	204.7	208.0	206.4	202.3	212.9	251.9	325.8	404.6	411.1	410.3
62.5°	219.4	194.2	197.4	195.8	190.1	210.4	255.1	331.5	410.3	418.4	416.8
65°	215.3	177.9	184.4	182.0	173.9	205.6	251.1	329.0	418.4	424.9	425.7
67.5°	208.0	159.2	165.7	164.1	159.2	200.7	239.7	317.7	411.1	418.4	420.0
70°	194.2	136.5	141.4	143.8	141.4	191.7	224.2	295.7	391.6	398.9	402.2
72.5°	175.5	114.6	117.0	121.9	121.1	177.9	203.1	265.7	363.2	372.9	374.5
75°	149.5	95.9	92.6	95.9	100.7	156.8	176.3	229.1	326.6	335.5	334.7
77.5°	119.4	75.6	67.4	69.9	79.6	130.0	147.1	187.7	279.5	289.2	292.5
80°	80.4	53.6	43.9	47.1	57.7	96.7	111.3	137.3	225.9	234.0	234.8
82.5°	39.0	30.9	27.6	29.2	34.9	56.9	72.3	86.9	160.1	160.9	162.5
85°	12.2	14.6	13.8	15.4	16.2	19.5	29.2	34.9	74.7	75.6	77.2
87.5°	8.1	8.9	8.9	8.9	8.9	8.1	8.9	8.9	10.6	10.6	10.6
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)