

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: P553640

Luminaire Tested: **ARB-B1-LED-D1-T2-7030**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34669)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ARB-B1-LED-D1-T2-7030
Description: ARBOR OUTDOOR ARCHITECTURAL POST TOP
70 CRI, 3000K LEDS AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1893 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

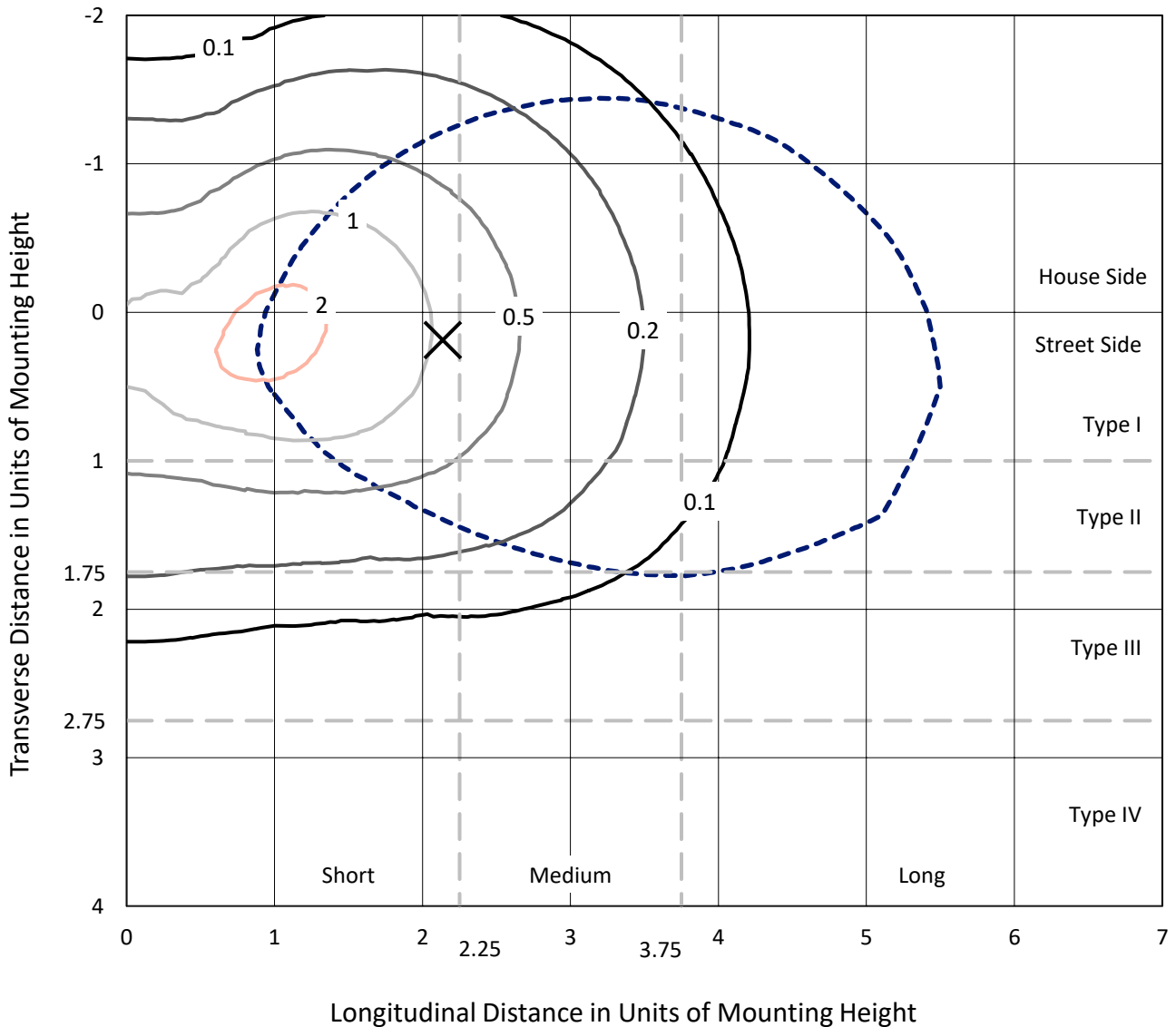
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

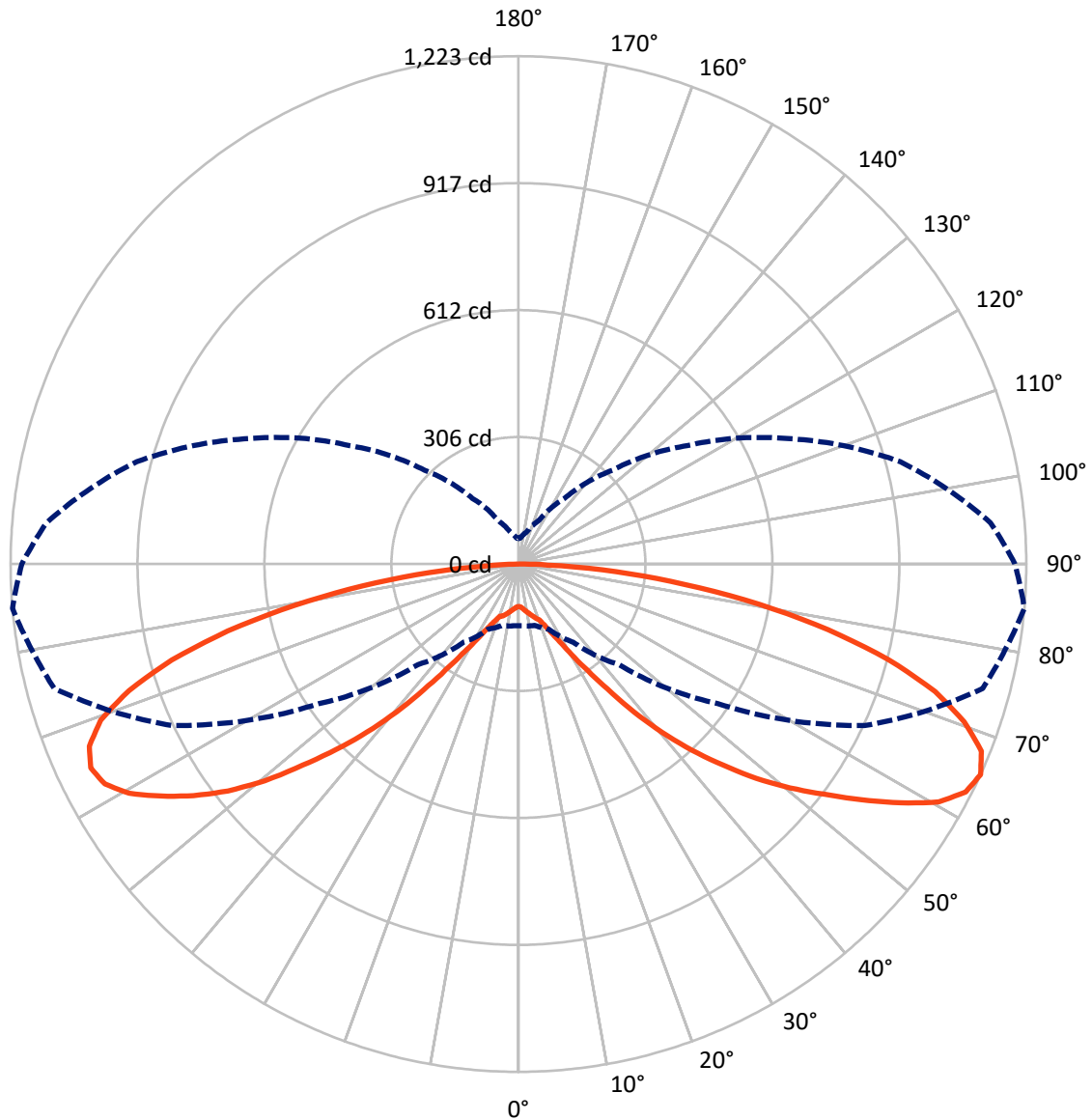
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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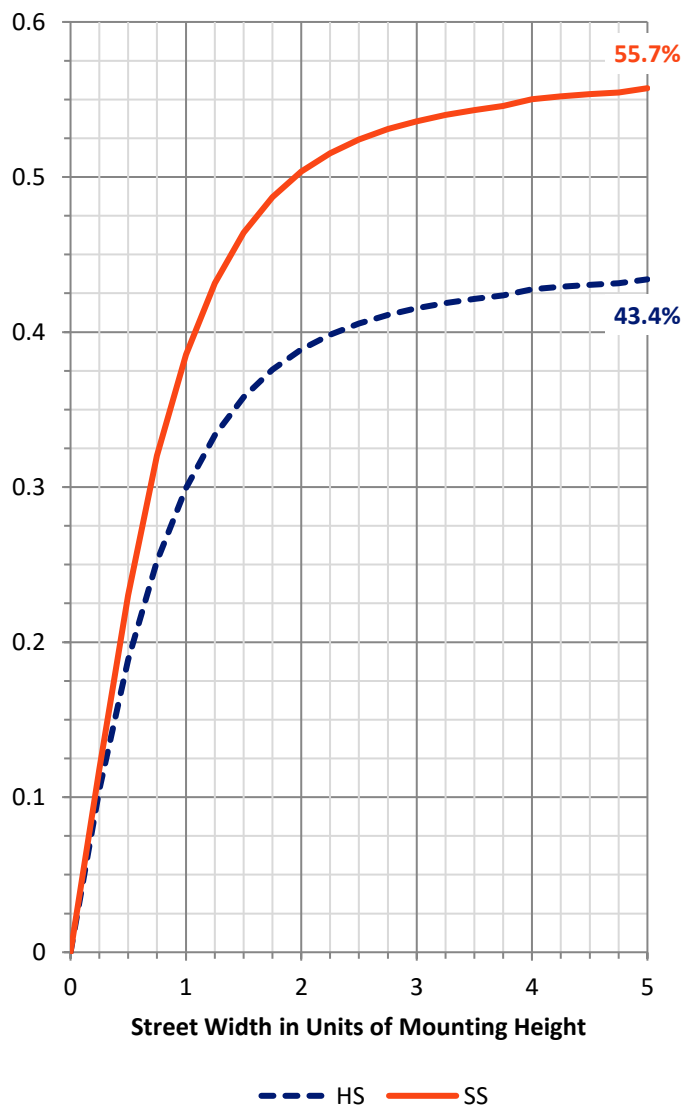
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	831.1	0.0	831.1
	% Fixture	43.9	0.0	43.9
Street Side	Lumens	1061.9	0.0	1061.9
	% Fixture	56.1	0.0	56.1
Total	Lumens	1893.0	0.0	1893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.5
10°-20°	34.1	1.8
20°-30°	69.0	3.6
30°-40°	138.0	7.3
40°-50°	256.3	13.5
50°-60°	400.9	21.2
60°-70°	488.3	25.8
70°-80°	383.1	20.2
80°-90°	113.1	6.0
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°	1893.0	100.0
0°-180°	1893.0	100.0

Coefficient of Utilization



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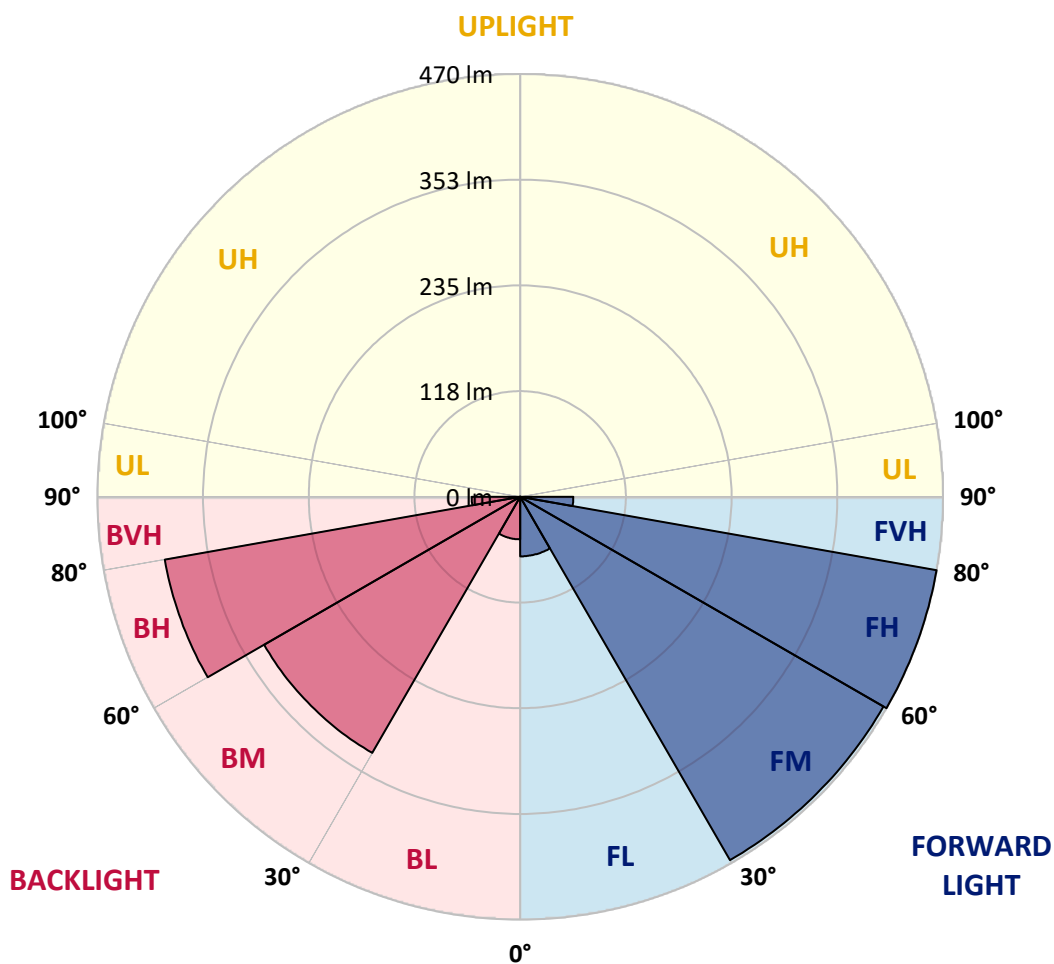
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	66.2	3.5			
FM (30°-60°)	466.4	24.6			
FH (60°-80°)	470.1	24.8			G0/660
FVH (80°-90°)	59.1	3.1			G1/100
BL (0°-30°)	47.3	2.5	B0/110		
BM (30°-60°)	328.7	17.4	B1/1000		
BH (60°-80°)	401.2	21.2	B1/500		G1/500
BVH (80°-90°)	53.9	2.8			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3
2.5°	107.3	107.3	106.8	106.8	106.5	105.7	104.9	104.4	103.9	103.6	103.4
5°	111.9	111.7	111.9	111.7	111.4	110.9	110.1	109.3	108.3	107.5	107.0
7.5°	115.6	115.6	115.8	116.1	116.1	116.1	115.3	114.5	113.5	112.7	111.7
10°	117.1	117.4	118.2	119.2	120.2	121.5	121.3	120.5	119.4	117.9	116.9
12.5°	116.9	116.9	118.4	121.0	124.1	126.7	128.3	127.7	125.7	123.9	122.6
15°	118.4	118.9	120.5	124.1	129.0	133.2	135.8	136.6	133.7	130.3	128.8
17.5°	131.9	132.1	130.9	132.4	137.8	144.3	147.2	148.2	143.8	137.3	134.2
20°	139.4	139.7	141.0	143.3	147.7	157.3	163.5	163.0	155.5	143.5	139.1
22.5°	139.9	140.4	143.3	150.3	159.1	171.5	183.7	184.7	175.9	158.8	152.1
25°	139.9	140.4	143.8	152.9	168.7	186.3	207.3	212.0	202.1	181.9	171.0
27.5°	139.9	141.0	146.4	157.5	177.7	206.5	231.6	242.5	233.5	211.2	197.7
30°	140.7	141.7	149.8	165.6	190.2	227.0	263.5	282.7	276.0	252.4	234.5
32.5°	149.5	149.8	157.3	174.4	206.0	248.0	299.5	326.7	326.0	305.2	279.6
35°	157.5	158.6	165.8	185.8	218.9	269.2	336.1	377.0	392.0	369.2	340.7
37.5°	158.8	160.1	171.0	195.4	231.6	291.8	375.4	432.5	466.9	451.9	420.3
40°	159.9	161.7	173.3	199.3	241.5	308.1	411.2	495.7	539.7	532.7	503.2
42.5°	160.6	163.0	174.4	199.8	244.9	319.2	440.7	551.6	611.0	612.8	585.1
45°	156.5	159.1	172.3	199.0	244.3	327.8	466.4	605.3	678.1	691.0	672.6
47.5°	157.8	160.1	171.3	198.7	247.2	337.9	490.0	652.7	742.6	771.1	750.4
50°	168.9	169.7	176.2	203.7	258.6	350.6	513.0	699.6	803.8	847.5	834.3
52.5°	175.9	174.4	178.0	207.0	267.7	364.8	540.2	747.5	871.9	920.9	922.2
55°	187.1	186.6	185.5	210.7	273.4	379.1	571.1	801.7	950.2	1001.5	1001.2
57.5°	183.4	184.5	185.8	208.8	274.7	385.8	600.1	855.3	1027.9	1085.7	1073.5
60°	172.0	173.6	177.5	200.8	266.9	380.1	610.7	901.2	1092.9	1163.4	1139.8
62.5°	161.9	163.0	166.3	188.6	251.6	365.1	604.8	922.9	1138.8	1208.7	1184.1
65°	148.5	149.5	153.1	173.1	229.8	342.5	585.6	920.1	1157.4	1223.0	1195.8
67.5°	132.4	133.7	138.4	158.1	208.3	318.4	560.2	892.9	1138.3	1202.5	1177.7
70°	117.6	118.7	122.3	139.9	185.8	290.7	527.0	846.5	1077.4	1139.0	1120.1
72.5°	102.9	103.4	106.2	122.8	162.5	259.4	481.4	773.2	988.2	1049.4	1033.3
75°	88.1	87.3	90.2	103.4	135.3	223.6	426.8	680.4	865.4	920.6	903.5
77.5°	72.0	71.8	74.4	83.7	108.8	186.6	359.9	565.4	719.0	762.8	754.8
80°	56.0	56.2	56.7	64.0	82.9	146.4	281.7	437.6	561.7	588.7	572.1
82.5°	40.7	40.4	40.7	45.1	60.4	106.0	202.9	315.9	393.8	401.6	398.0
85°	24.6	24.6	24.4	26.2	36.8	60.1	112.7	177.2	217.9	235.8	222.6
87.5°	8.3	8.6	8.8	10.6	12.7	16.3	27.7	47.9	58.0	70.2	61.1
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°	180°
0°	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3
2.5°	103.1	102.9	102.6	102.3	102.3	102.3	102.1	102.1	101.8	101.8
5°	106.8	105.5	104.2	103.1	102.3	101.3	100.8	100.0	99.8	99.8
7.5°	110.6	108.6	106.5	104.2	102.3	101.1	100.0	99.0	98.5	98.5
10°	115.3	112.5	109.1	106.5	103.9	101.3	99.2	97.7	96.6	96.6
12.5°	120.7	116.9	112.5	109.1	105.2	101.8	98.7	96.4	95.4	95.1
15°	125.9	120.2	115.0	110.6	106.0	101.8	98.5	96.1	94.6	94.6
17.5°	130.9	123.1	116.3	110.4	106.0	101.8	97.9	95.4	93.8	93.5
20°	133.4	122.8	114.0	107.3	104.4	100.8	96.1	93.3	92.0	91.7
22.5°	145.6	131.6	119.4	110.9	106.2	101.3	95.6	92.5	91.5	91.2
25°	161.9	143.3	127.5	116.3	108.8	102.1	95.6	91.7	90.2	89.9
27.5°	184.2	158.8	137.3	122.3	110.9	102.9	95.4	90.7	88.9	88.9
30°	215.8	177.7	149.0	129.3	113.5	103.4	94.6	89.7	87.8	87.6
32.5°	255.5	206.0	164.3	137.3	117.9	103.9	94.6	88.6	86.3	86.0
35°	309.9	240.5	189.4	149.5	123.6	106.0	94.6	88.1	85.5	85.2
37.5°	378.6	297.5	223.9	171.3	132.4	109.9	96.6	89.7	86.8	86.5
40°	461.2	360.9	264.3	196.4	149.0	116.9	101.6	93.5	90.2	89.9
42.5°	544.9	427.5	308.1	227.8	170.0	126.4	104.9	95.1	91.5	90.9
45°	625.7	498.5	362.2	264.0	189.2	135.5	105.5	95.4	91.7	91.2
47.5°	710.0	578.6	424.9	301.3	209.4	143.0	107.0	94.8	91.2	90.7
50°	803.5	663.6	480.9	334.5	231.1	151.6	109.3	93.8	90.7	90.2
52.5°	887.5	741.6	538.7	372.6	254.2	163.5	111.4	91.5	88.9	88.9
55°	960.3	810.5	590.3	408.9	275.4	175.2	112.5	90.4	85.8	85.8
57.5°	1026.1	864.1	637.7	438.7	294.3	183.4	117.1	88.1	81.6	82.1
60°	1088.0	904.8	676.3	466.7	308.1	190.7	119.4	84.7	76.2	76.7
62.5°	1127.9	936.7	703.0	487.4	316.9	194.3	119.2	82.9	70.7	70.7
65°	1140.9	951.7	714.6	497.0	319.2	193.0	115.3	80.8	64.0	61.1
67.5°	1122.5	943.4	710.0	494.1	313.0	186.8	109.9	77.5	56.0	54.4
70°	1073.8	902.2	685.1	478.6	298.0	174.4	102.6	69.4	50.8	46.9
72.5°	985.9	834.9	637.2	447.2	276.2	158.6	94.1	60.6	46.6	45.1
75°	866.5	729.7	568.0	398.8	245.9	140.7	82.9	51.6	42.8	43.3
77.5°	718.5	608.6	474.7	339.4	211.4	118.4	70.5	42.5	38.3	40.7
80°	547.8	471.6	366.9	268.7	171.3	94.3	57.0	34.5	32.9	33.9
82.5°	378.6	327.0	259.6	189.2	123.3	71.5	42.0	27.2	25.7	25.1
85°	215.1	179.0	144.8	109.1	73.6	44.0	28.5	20.0	18.1	18.1
87.5°	58.6	52.9	42.2	31.9	23.6	17.4	14.0	10.9	9.8	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)