

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: P553642

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

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553642
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
Description: ARBOR OUTDOOR ARCHITECTURAL POST TOP
70 CRI, 4000K LEDS AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2045 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

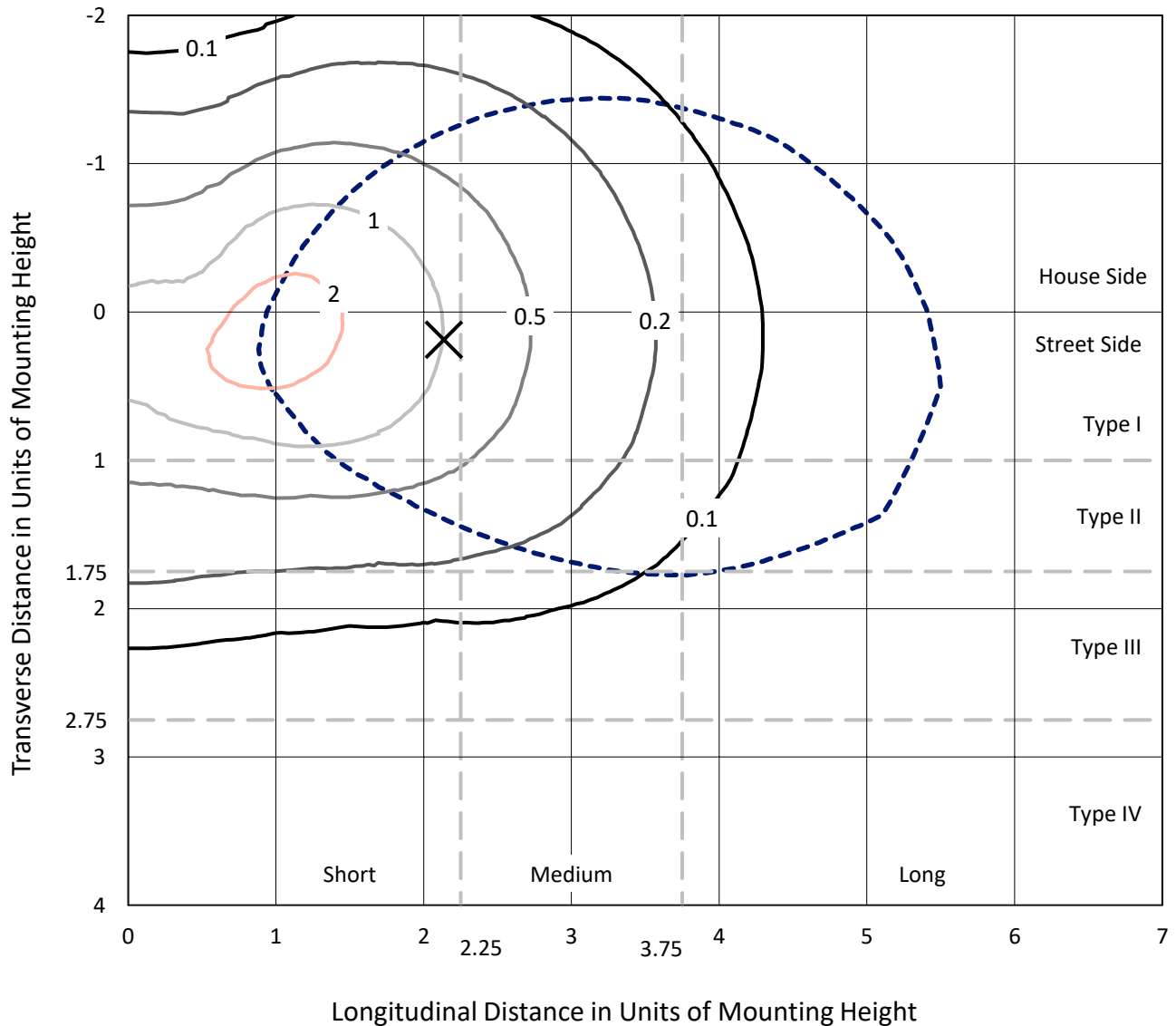
Input Watts (W): 24
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

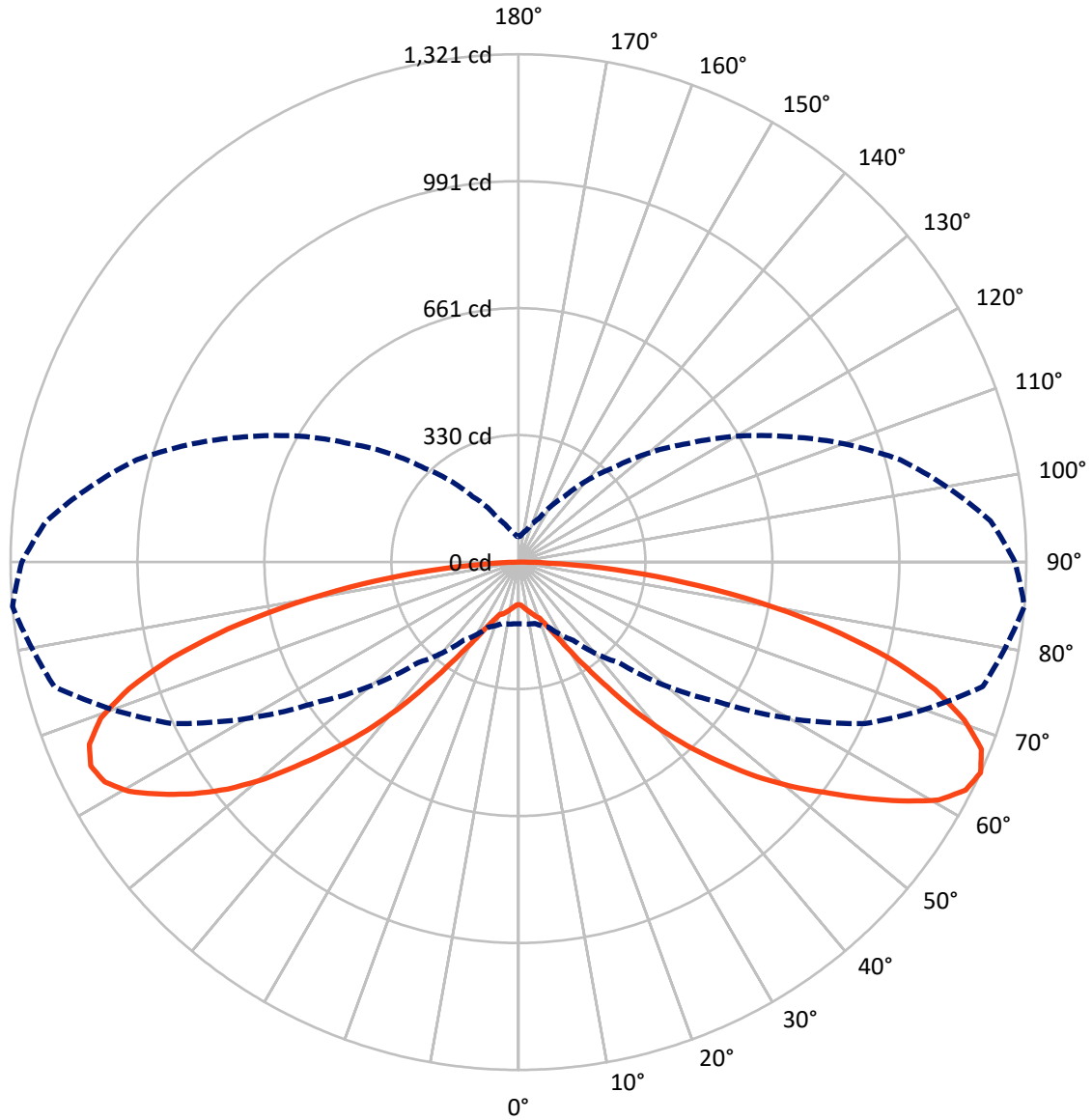
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.6 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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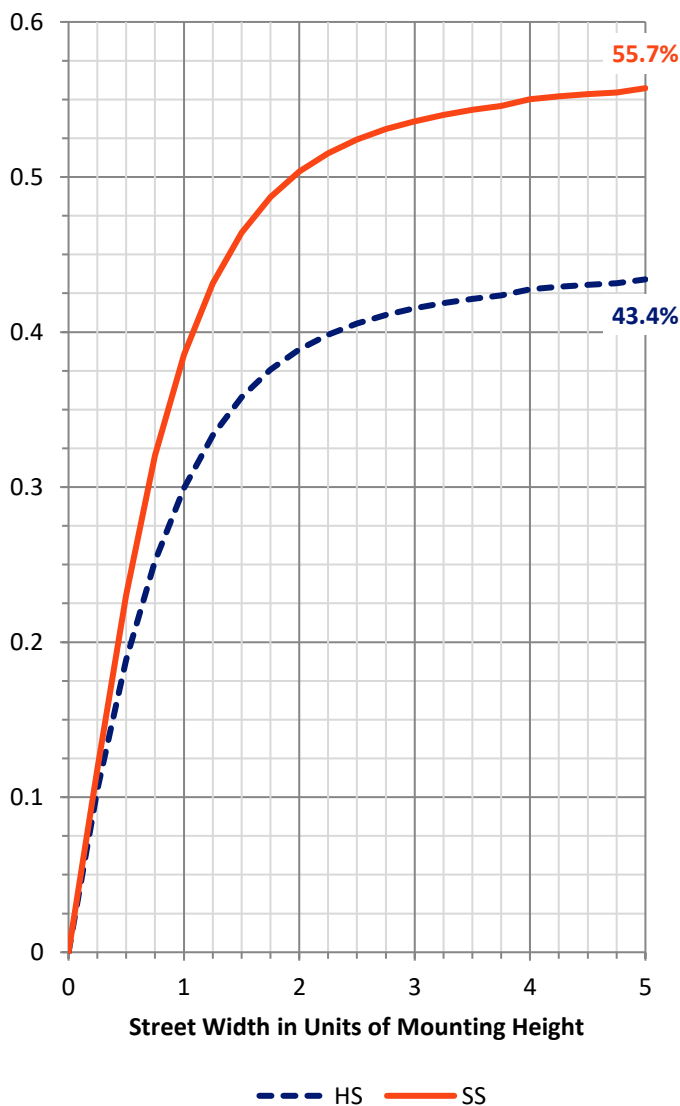
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	897.9	0.0	897.9
	% Fixture	43.9	0.0	43.9
Street Side	Lumens	1147.1	0.0	1147.1
	% Fixture	56.1	0.0	56.1
Total	Lumens	2045.0	0.0	2045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	0.5
10°-20°	36.8	1.8
20°-30°	74.6	3.6
30°-40°	149.1	7.3
40°-50°	276.8	13.5
50°-60°	433.1	21.2
60°-70°	527.5	25.8
70°-80°	413.8	20.2
80°-90°	122.1	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°	2045.0	100.0
0°-180°	2045.0	100.0

Coefficient of Utilization



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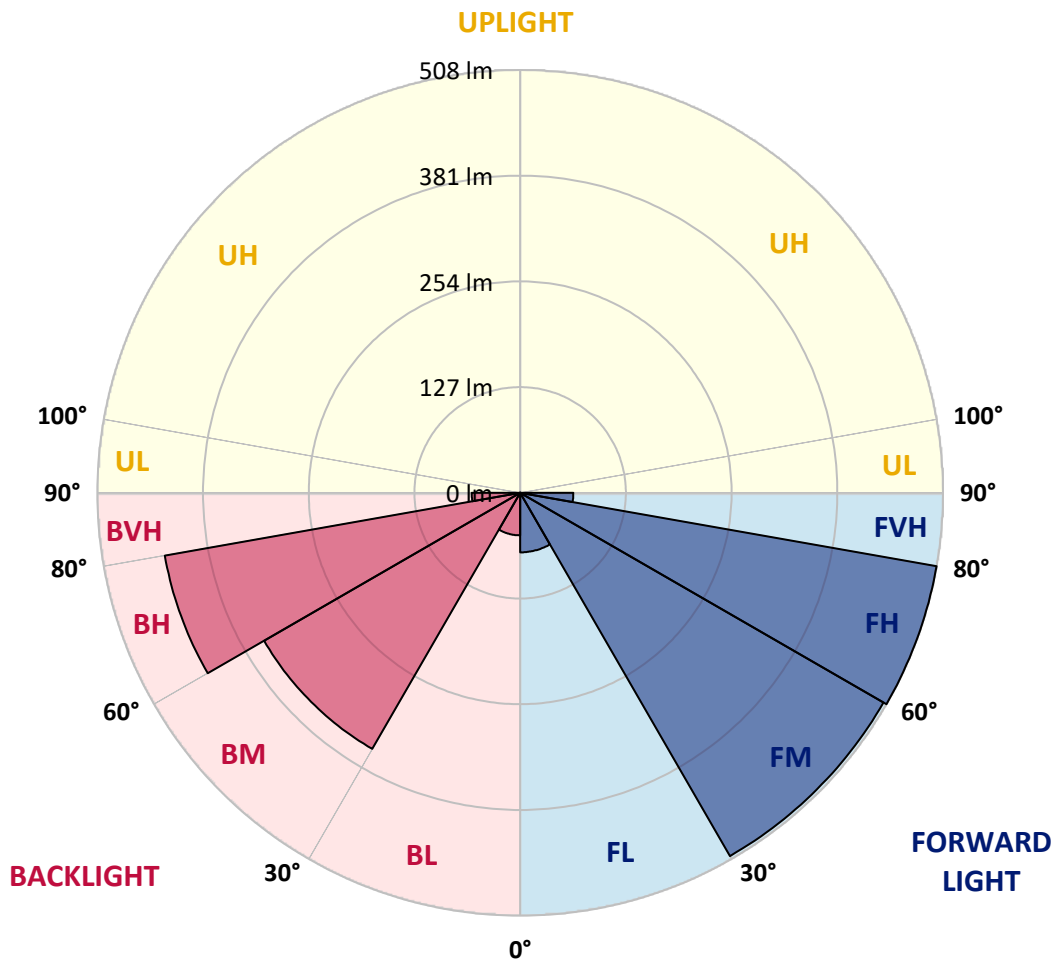
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	71.5	3.5			
FM	(30°-60°)	503.9	24.6			
FH	(60°-80°)	507.9	24.8			G0/660
FVH	(80°-90°)	63.9	3.1			G1/100
BL	(0°-30°)	51.1	2.5	B0/110		
BM	(30°-60°)	355.1	17.4	B1/1000		
BH	(60°-80°)	433.4	21.2	B1/500		G1/500
BVH	(80°-90°)	58.3	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°	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
2.5°	115.9	115.9	115.3	115.3	115.0	114.2	113.4	112.8	112.2	112.0	111.7
5°	120.9	120.6	120.9	120.6	120.4	119.8	119.0	118.1	117.0	116.2	115.6
7.5°	124.8	124.8	125.1	125.4	125.4	125.4	124.6	123.7	122.6	121.8	120.6
10°	126.5	126.8	127.6	128.8	129.9	131.3	131.0	130.2	129.0	127.4	126.2
12.5°	126.2	126.2	127.9	130.7	134.1	136.9	138.6	138.0	135.8	133.8	132.4
15°	127.9	128.5	130.2	134.1	139.4	143.9	146.7	147.5	144.4	140.8	139.1
17.5°	142.5	142.8	141.4	143.0	148.9	155.9	159.0	160.1	155.4	148.4	145.0
20°	150.6	150.9	152.3	154.8	159.6	169.9	176.6	176.1	167.9	155.1	150.3
22.5°	151.2	151.7	154.8	162.4	171.9	185.3	198.5	199.6	190.1	171.6	164.3
25°	151.2	151.7	155.4	165.1	182.2	201.3	223.9	229.0	218.3	196.5	184.7
27.5°	151.2	152.3	158.2	170.2	192.0	223.1	250.2	262.0	252.2	228.1	213.6
30°	152.0	153.1	161.8	178.9	205.5	245.2	284.7	305.4	298.1	272.6	253.3
32.5°	161.5	161.8	169.9	188.4	222.5	267.9	323.6	353.0	352.1	329.7	302.0
35°	170.2	171.3	179.1	200.7	236.5	290.8	363.0	407.3	423.5	398.9	368.1
37.5°	171.6	173.0	184.7	211.1	250.2	315.2	405.6	467.2	504.4	488.2	454.0
40°	172.7	174.7	187.3	215.3	260.9	332.8	444.2	535.5	583.1	575.5	543.6
42.5°	173.5	176.1	188.4	215.8	264.5	344.9	476.1	595.9	660.0	662.0	632.0
45°	169.1	171.9	186.1	215.0	264.0	354.1	503.8	653.9	732.5	746.5	726.7
47.5°	170.5	173.0	185.0	214.7	267.0	365.0	529.3	705.1	802.2	833.0	810.6
50°	182.5	183.3	190.3	220.0	279.4	378.7	554.2	755.8	868.3	915.6	901.3
52.5°	190.1	188.4	192.3	223.7	289.2	394.1	583.6	807.6	941.9	994.8	996.2
55°	202.1	201.5	200.4	227.6	295.3	409.5	616.9	866.1	1026.4	1081.9	1081.6
57.5°	198.2	199.3	200.7	225.6	296.7	416.8	648.3	924.0	1110.4	1172.8	1159.7
60°	185.9	187.5	191.7	216.9	288.3	410.6	659.8	973.5	1180.7	1256.8	1231.3
62.5°	174.9	176.1	179.7	203.8	271.8	394.4	653.3	997.1	1230.2	1305.8	1279.2
65°	160.4	161.5	165.4	187.0	248.3	370.0	632.6	994.0	1250.4	1321.2	1291.8
67.5°	143.0	144.4	149.5	170.7	225.1	344.0	605.2	964.6	1229.7	1299.1	1272.2
70°	127.1	128.2	132.1	151.2	200.7	314.1	569.3	914.5	1163.9	1230.5	1210.1
72.5°	111.1	111.7	114.8	132.7	175.5	280.2	520.1	835.3	1067.6	1133.7	1116.3
75°	95.2	94.3	97.4	111.7	146.1	241.6	461.0	735.1	934.9	994.5	976.1
77.5°	77.8	77.5	80.3	90.4	117.6	201.5	388.8	610.8	776.8	824.1	815.4
80°	60.5	60.7	61.3	69.1	89.6	158.2	304.3	472.8	606.9	636.0	618.1
82.5°	43.9	43.7	43.9	48.7	65.2	114.5	219.2	341.2	425.5	433.9	429.9
85°	26.6	26.6	26.3	28.3	39.7	64.9	121.8	191.5	235.4	254.7	240.4
87.5°	9.0	9.2	9.5	11.5	13.7	17.6	30.0	51.8	62.7	75.9	66.1
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°	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
2.5°	111.4	111.1	110.8	110.6	110.6	110.6	110.3	110.3	110.0	110.0
5°	115.3	113.9	112.5	111.4	110.6	109.4	108.9	108.0	107.8	107.8
7.5°	119.5	117.3	115.0	112.5	110.6	109.2	108.0	106.9	106.4	106.4
10°	124.6	121.5	117.8	115.0	112.2	109.4	107.2	105.5	104.4	104.4
12.5°	130.4	126.2	121.5	117.8	113.6	110.0	106.6	104.1	103.0	102.7
15°	136.0	129.9	124.3	119.5	114.5	110.0	106.4	103.8	102.2	102.2
17.5°	141.4	133.0	125.7	119.2	114.5	110.0	105.8	103.0	101.3	101.0
20°	144.2	132.7	123.2	115.9	112.8	108.9	103.8	100.8	99.4	99.1
22.5°	157.3	142.2	129.0	119.8	114.8	109.4	103.3	99.9	98.8	98.5
25°	174.9	154.8	137.7	125.7	117.6	110.3	103.3	99.1	97.4	97.1
27.5°	199.0	171.6	148.4	132.1	119.8	111.1	103.0	98.0	96.0	96.0
30°	233.2	192.0	161.0	139.7	122.6	111.7	102.2	96.9	94.9	94.6
32.5°	276.0	222.5	177.5	148.4	127.4	112.2	102.2	95.7	93.2	92.9
35°	334.8	259.8	204.6	161.5	133.5	114.5	102.2	95.2	92.4	92.1
37.5°	409.0	321.3	241.8	185.0	143.0	118.7	104.4	96.9	93.8	93.5
40°	498.2	389.9	285.5	212.2	161.0	126.2	109.7	101.0	97.4	97.1
42.5°	588.7	461.9	332.8	246.0	183.6	136.6	113.4	102.7	98.8	98.3
45°	676.0	538.6	391.3	285.2	204.3	146.4	113.9	103.0	99.1	98.5
47.5°	767.0	625.1	459.1	325.5	226.2	154.5	115.6	102.4	98.5	98.0
50°	868.0	716.9	519.5	361.4	249.7	163.8	118.1	101.3	98.0	97.4
52.5°	958.7	801.1	581.9	402.5	274.6	176.6	120.4	98.8	96.0	96.0
55°	1037.4	875.6	637.6	441.7	297.5	189.2	121.5	97.7	92.7	92.7
57.5°	1108.5	933.5	688.9	473.9	318.0	198.2	126.5	95.2	88.2	88.7
60°	1175.4	977.5	730.6	504.1	332.8	206.0	129.0	91.5	82.3	82.9
62.5°	1218.5	1011.9	759.4	526.5	342.3	209.9	128.8	89.6	76.4	76.4
65°	1232.5	1028.1	772.0	536.9	344.9	208.5	124.6	87.3	69.1	66.1
67.5°	1212.6	1019.2	767.0	533.8	338.1	201.8	118.7	83.7	60.5	58.8
70°	1160.0	974.7	740.1	517.0	321.9	188.4	110.8	75.0	54.9	50.7
72.5°	1065.1	901.9	688.3	483.1	298.4	171.3	101.6	65.5	50.4	48.7
75°	936.0	788.2	613.6	430.8	265.6	152.0	89.6	55.7	46.2	46.7
77.5°	776.2	657.5	512.8	366.7	228.4	127.9	76.1	45.9	41.4	43.9
80°	591.7	509.4	396.4	290.3	185.0	101.9	61.6	37.2	35.5	36.7
82.5°	409.0	353.3	280.5	204.3	133.2	77.3	45.3	29.4	27.7	27.2
85°	232.3	193.4	156.5	117.8	79.5	47.6	30.8	21.6	19.6	19.6
87.5°	63.3	57.1	45.6	34.4	25.5	18.8	15.1	11.8	10.6	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)