

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: P553648

Luminaire Tested: **ARB-B1-LED-D1-T4**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34663)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ARB-B1-LED-D1-T4
Description: ARBOR OUTDOOR ARCHITECTURAL POST TOP
70 CRI, 4000K LEDS AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2408 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

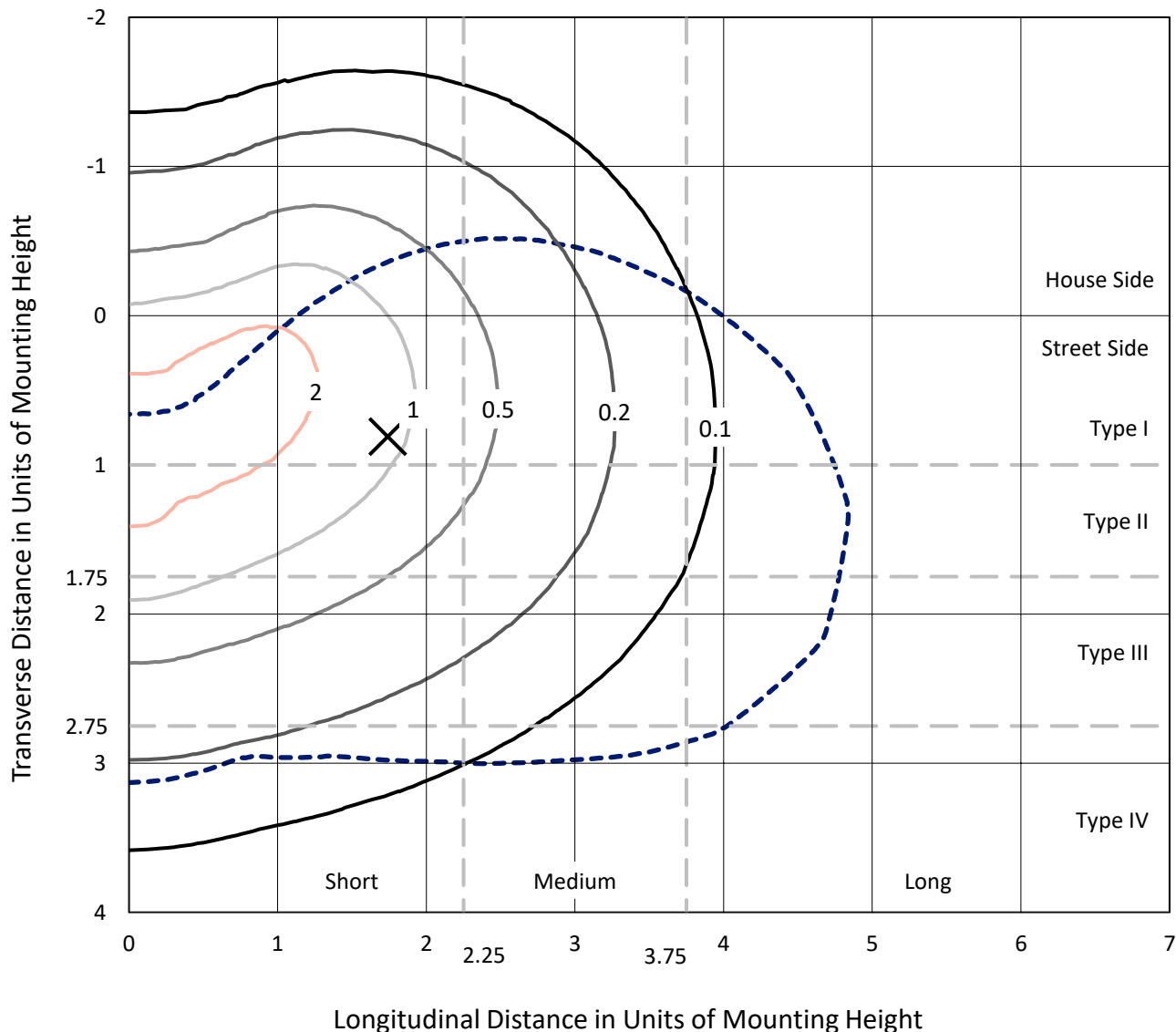
Input Watts (W): 24
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P553648
 CATALOG NUMBER: ARB-B1-LED-D1-T4

Iso-Footcandle Lines of Horizontal Illumination

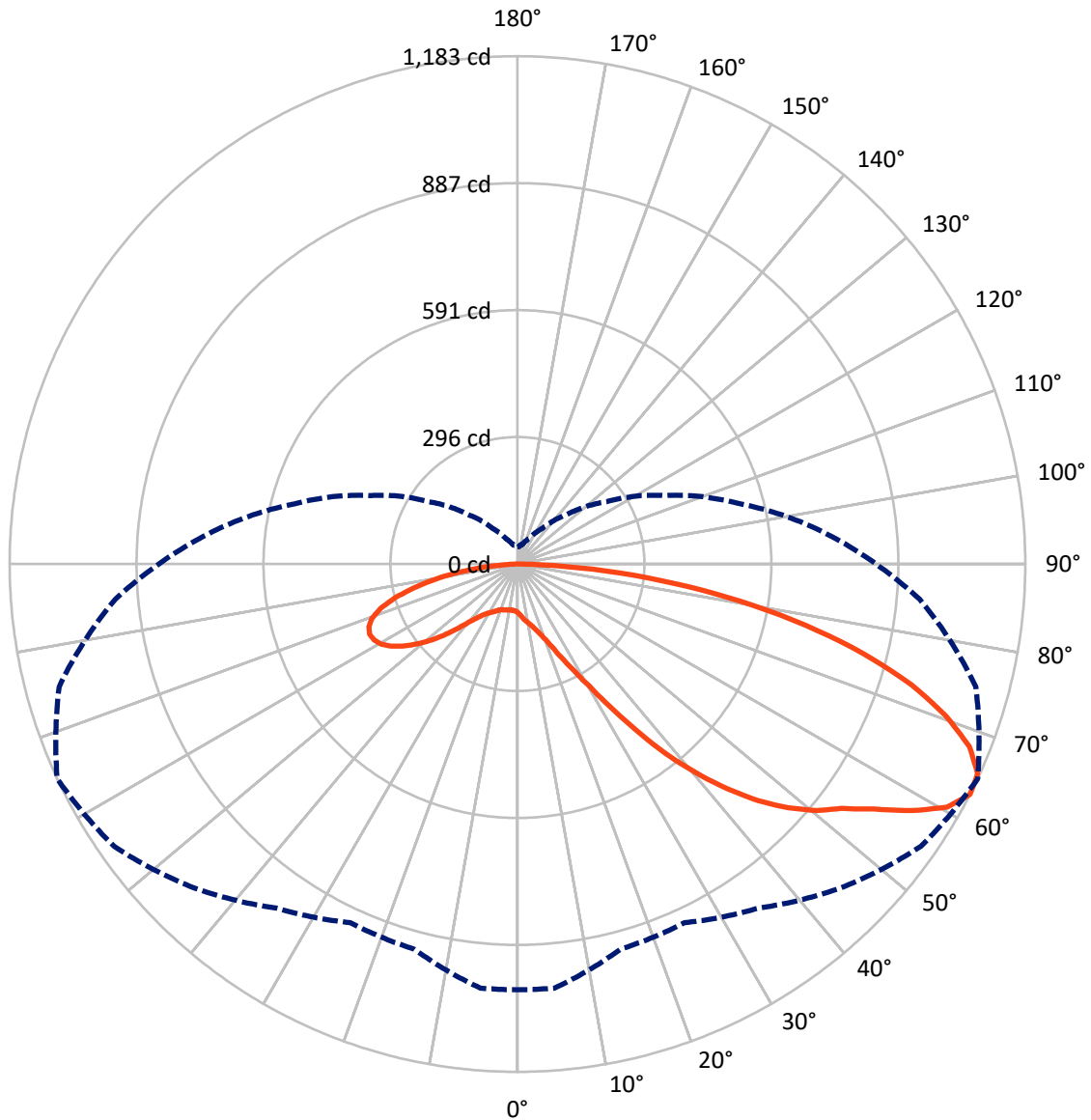
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P553648
CATALOG NUMBER: ARB-B1-LED-D1-T4

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P553648

CATALOG NUMBER: ARB-B1-LED-D1-T4

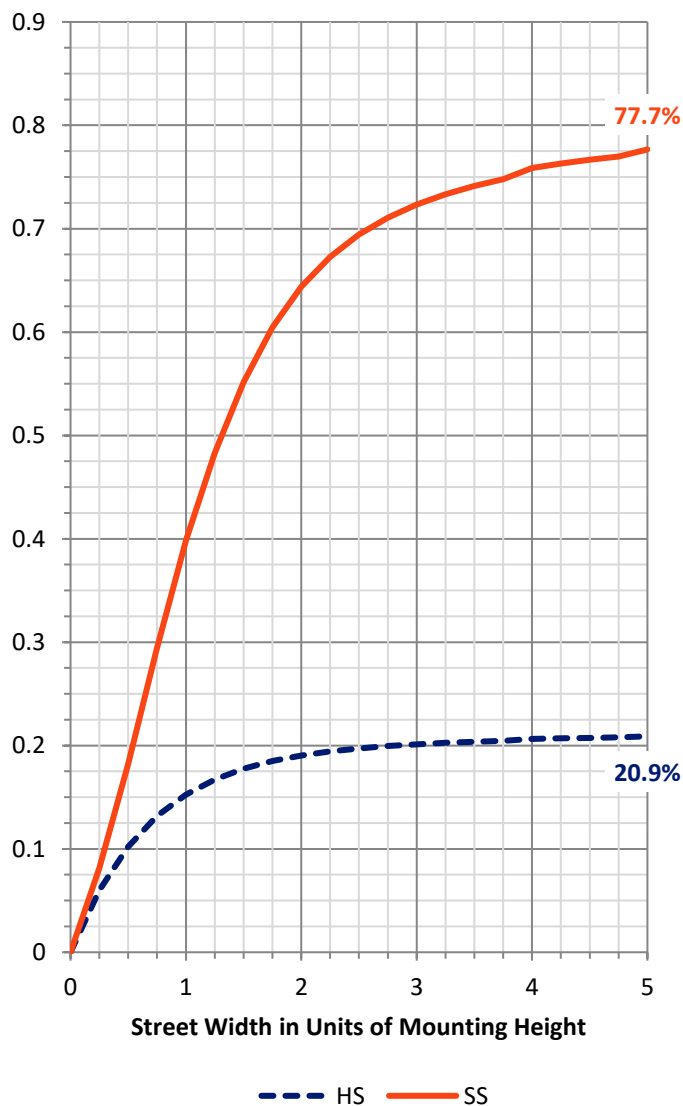
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	509.0	0.0	509.0
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	1899.0	0.0	1899.0
	% Fixture	78.9	0.0	78.9
Total	Lumens	2408.0	0.0	2408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	0.5
10°-20°	38.1	1.6
20°-30°	86.2	3.6
30°-40°	204.4	8.5
40°-50°	365.8	15.2
50°-60°	533.1	22.1
60°-70°	607.4	25.2
70°-80°	437.8	18.2
80°-90°	123.6	5.1
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°	2408.0	100.0
0°-180°	2408.0	100.0

Coefficient of Utilization



REPORT NUMBER: P553648

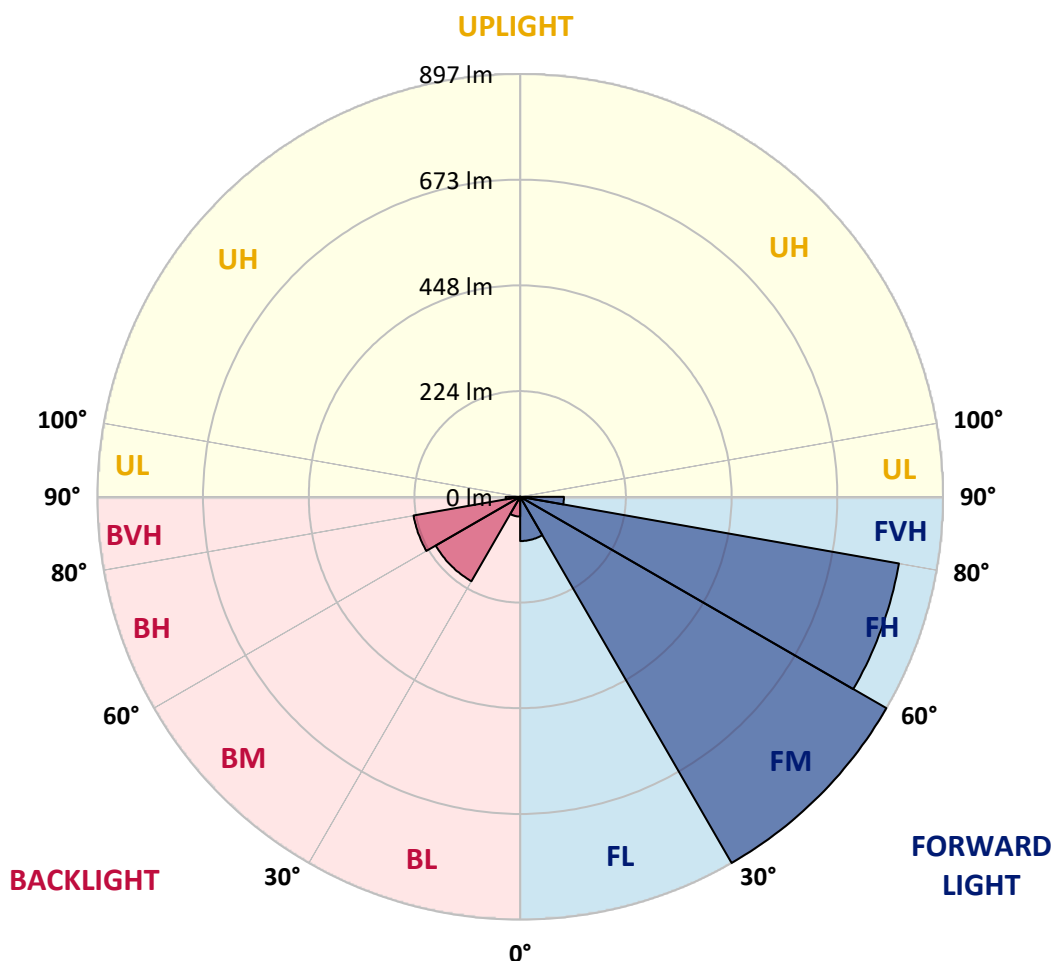
CATALOG NUMBER: ARB-B1-LED-D1-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	93.8	3.9			
FM	(30°-60°)	896.7	37.2			
FH	(60°-80°)	815.7	33.9			G1/1800
FVH	(80°-90°)	92.8	3.9			G1/100
BL	(0°-30°)	41.9	1.7	B0/110		
BM	(30°-60°)	206.7	8.6	B0/220		
BH	(60°-80°)	229.5	9.5	B1/500		G1/500
BVH	(80°-90°)	30.8	1.3			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 IV Short





REPORT NUMBER: P553648

CATALOG NUMBER: ARB-B1-LED-D1-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8
2.5°	126.1	125.0	125.0	124.7	123.6	122.2	120.5	118.3	116.9	114.7	113.6
5°	137.2	137.2	136.6	135.8	134.1	131.9	128.8	125.8	122.5	118.6	116.9
7.5°	147.7	147.7	147.1	145.2	143.3	140.8	136.9	132.7	128.0	122.8	120.3
10°	159.3	158.8	157.4	155.2	152.4	148.8	144.6	139.7	134.1	127.7	124.4
12.5°	169.0	169.0	168.5	166.3	162.7	157.9	153.2	147.4	141.3	133.3	129.4
15°	179.8	179.6	179.6	177.9	174.8	169.9	163.8	157.9	150.2	139.7	135.2
17.5°	200.3	199.5	197.3	192.6	189.3	185.4	179.6	171.2	161.3	148.0	141.9
20°	227.8	229.2	222.2	214.2	207.5	204.2	199.0	188.1	173.7	155.2	147.4
22.5°	270.7	268.8	256.9	248.0	236.9	230.5	226.4	211.7	192.0	169.0	158.8
25°	314.5	313.1	300.6	288.5	276.3	270.2	261.6	244.1	215.0	186.8	172.6
27.5°	356.9	357.2	347.8	336.4	328.1	321.7	305.9	282.6	243.6	207.5	190.9
30°	426.2	432.5	414.3	407.1	403.2	396.8	374.9	328.6	281.8	234.4	212.8
32.5°	557.0	553.6	527.9	498.5	489.9	479.9	451.7	396.2	334.2	270.2	241.9
35°	697.4	688.6	642.3	600.5	576.4	559.7	534.2	472.2	396.5	320.0	282.9
37.5°	755.1	752.3	722.4	689.7	663.1	642.3	618.2	559.5	473.3	377.4	328.4
40°	801.6	800.8	777.0	750.4	737.1	713.8	688.6	638.7	553.4	441.1	386.8
42.5°	832.7	832.9	811.6	791.1	788.1	773.6	756.2	714.6	626.0	505.1	443.1
45°	857.9	858.2	825.5	816.9	825.2	826.0	816.3	786.1	698.0	577.7	505.1
47.5°	878.9	877.8	836.0	825.5	847.4	870.1	866.5	848.2	769.5	642.3	565.8
50°	888.9	885.9	841.0	831.8	858.2	893.6	903.0	902.5	834.1	699.7	623.5
52.5°	930.5	921.3	870.6	862.0	885.3	928.3	944.6	945.2	893.9	755.1	675.3
55°	1076.2	1073.2	986.2	941.3	953.2	1000.3	1012.8	1007.2	954.6	806.6	723.8
57.5°	1089.8	1085.1	1020.3	985.6	1007.8	1059.6	1089.3	1083.2	1020.0	859.8	762.0
60°	1055.2	1046.3	986.7	970.7	1011.9	1081.5	1138.3	1149.4	1069.3	910.3	808.6
62.5°	991.4	991.2	928.3	921.3	977.9	1066.0	1146.6	1182.6	1105.0	939.9	834.9
65°	906.4	903.9	850.4	857.1	921.3	1020.3	1117.8	1177.6	1113.1	944.9	841.8
67.5°	767.8	774.8	748.7	783.1	848.5	955.1	1062.7	1135.0	1084.0	922.2	825.5
70°	665.6	672.5	655.9	693.8	765.3	872.3	989.8	1057.7	1017.8	873.7	784.2
72.5°	582.5	579.7	566.4	605.7	673.6	773.9	889.5	958.7	923.8	797.5	717.9
75°	492.4	487.1	474.1	507.6	576.6	664.7	765.6	831.6	802.5	701.9	629.6
77.5°	398.5	394.9	381.8	407.6	461.4	550.3	641.5	686.6	668.3	582.2	522.3
80°	310.3	302.9	288.7	308.4	353.6	421.2	490.2	527.0	507.9	443.3	398.7
82.5°	205.0	211.7	205.6	206.4	246.9	296.5	350.5	364.1	354.7	304.2	276.0
85°	121.6	118.6	114.2	115.3	136.3	171.0	198.1	207.0	198.4	167.1	153.8
87.5°	26.0	27.4	28.5	25.5	35.2	46.6	52.4	53.5	54.3	46.8	41.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P553648

CATALOG NUMBER: ARB-B1-LED-D1-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8
2.5°	112.8	111.1	109.7	108.3	107.2	106.7	106.1	105.8	105.6	105.8
5°	115.3	111.9	108.9	106.1	103.9	102.2	100.6	99.8	98.9	98.9
7.5°	117.8	112.8	108.1	103.9	100.3	97.0	94.8	93.4	92.3	92.3
10°	120.8	114.4	108.1	102.2	97.3	93.4	89.8	87.8	86.5	86.2
12.5°	125.2	116.9	109.2	102.0	95.6	90.3	86.2	83.1	81.5	81.2
15°	130.2	120.0	110.3	102.0	94.2	87.0	82.0	78.4	76.5	75.9
17.5°	135.2	123.0	111.9	101.7	92.3	84.2	78.4	74.3	72.3	71.8
20°	140.2	125.8	112.5	100.6	90.1	81.5	74.8	70.7	68.2	68.2
22.5°	149.4	131.6	116.1	101.4	89.5	79.8	72.0	67.6	65.4	64.8
25°	161.5	139.1	120.3	103.1	89.2	78.1	69.8	64.8	62.6	62.1
27.5°	176.0	148.0	125.0	105.0	89.2	76.8	67.9	62.6	59.9	59.9
30°	193.7	158.5	130.0	107.2	88.9	75.4	65.9	60.4	57.9	57.6
32.5°	216.4	172.6	136.1	109.2	88.9	74.3	64.3	58.5	55.7	55.4
35°	247.7	189.3	144.9	112.8	89.5	74.0	63.5	57.1	54.0	53.8
37.5°	286.0	212.8	157.1	119.7	92.3	74.8	63.5	56.5	53.5	53.2
40°	331.4	241.9	173.2	128.3	97.5	77.3	64.8	57.4	53.8	53.5
42.5°	383.8	274.0	195.6	141.6	105.3	80.6	65.7	57.4	53.8	53.2
45°	436.7	313.9	222.0	155.2	111.4	83.4	65.4	56.8	53.2	52.6
47.5°	490.2	356.1	249.7	171.0	118.0	85.9	65.9	56.3	52.1	51.5
50°	543.7	396.2	277.4	188.4	126.6	87.6	66.8	54.9	51.0	50.2
52.5°	592.7	439.2	304.0	205.6	136.1	91.7	67.1	53.5	49.6	49.0
55°	634.0	474.4	329.2	224.4	146.6	96.2	66.8	52.9	47.9	47.4
57.5°	673.3	502.6	351.1	237.7	154.1	98.6	67.3	51.8	46.0	45.4
60°	710.2	524.3	367.7	248.0	159.6	100.9	67.1	50.2	43.5	43.5
62.5°	734.3	538.9	377.4	253.0	162.9	101.4	66.2	48.2	41.0	40.2
65°	740.4	546.4	381.0	254.1	162.4	99.8	63.2	46.3	37.7	36.6
67.5°	724.6	539.8	376.0	249.1	157.7	95.3	58.7	42.9	33.3	33.0
70°	689.1	516.5	361.6	237.7	149.1	89.5	53.5	38.8	29.9	28.8
72.5°	633.2	475.5	335.0	220.3	136.3	82.0	48.8	34.4	27.4	26.3
75°	556.1	420.9	296.2	195.6	120.5	72.3	43.8	29.6	25.2	24.4
77.5°	463.3	350.0	248.0	165.7	102.2	62.1	38.0	24.7	22.7	22.7
80°	352.2	275.7	194.5	129.7	80.6	49.3	31.3	20.5	19.7	20.0
82.5°	240.8	188.4	135.2	90.9	58.2	37.1	23.8	16.6	16.3	16.3
85°	130.8	106.7	76.8	54.0	34.6	24.1	16.3	12.7	12.7	12.7
87.5°	40.5	32.7	22.7	17.2	14.1	11.4	9.7	8.6	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)