

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: P553645

Luminaire Tested: **ARB-B1-LED-D1-T3**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34666)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ARB-B1-LED-D1-T3
Description: ARBOR OUTDOOR ARCHITECTURAL POST TOP
70 CRI, 4000K LEDS AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2324 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

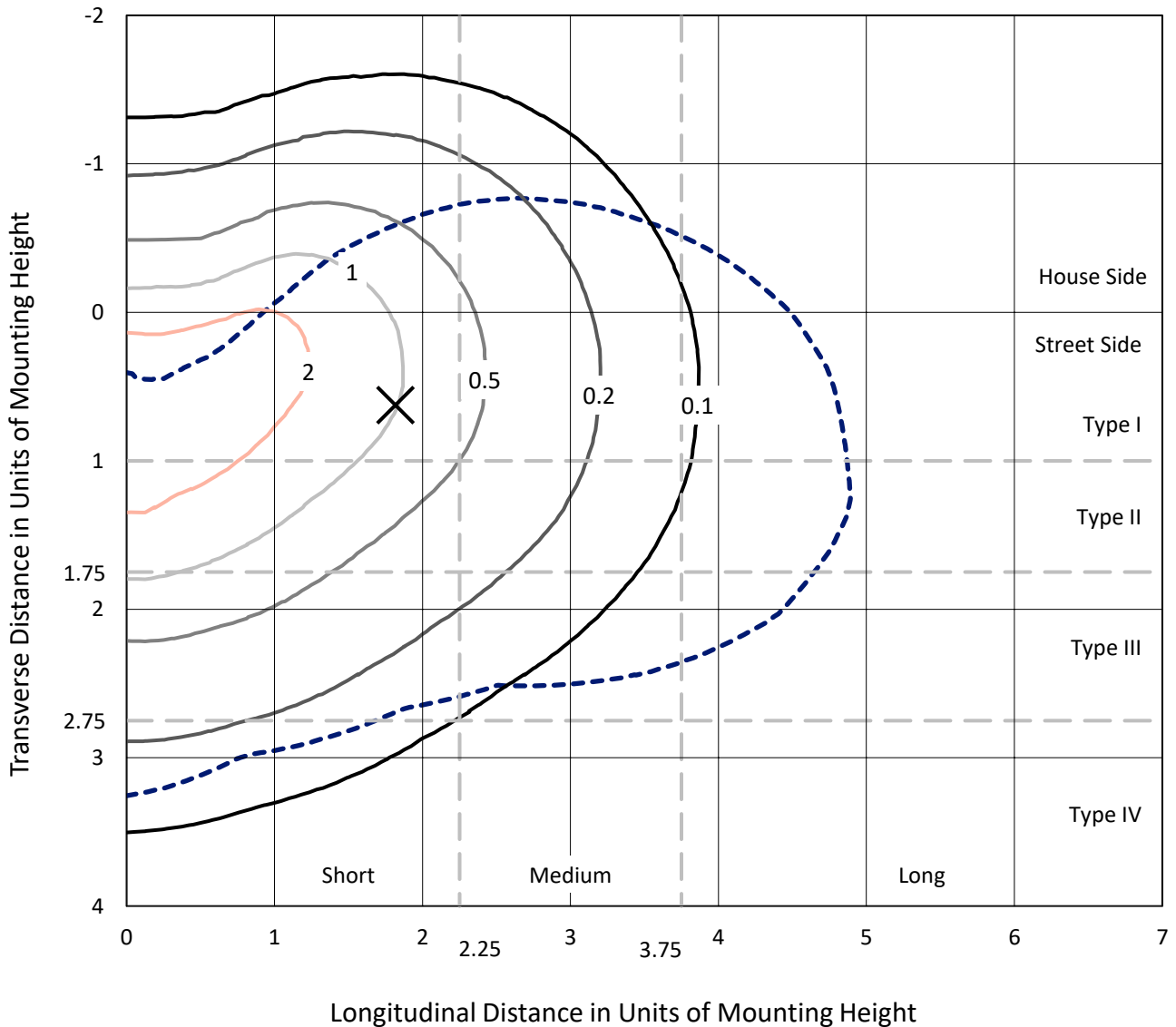
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P553645
 CATALOG NUMBER: ARB-B1-LED-D1-T3

Iso-Footcandle Lines of Horizontal Illumination

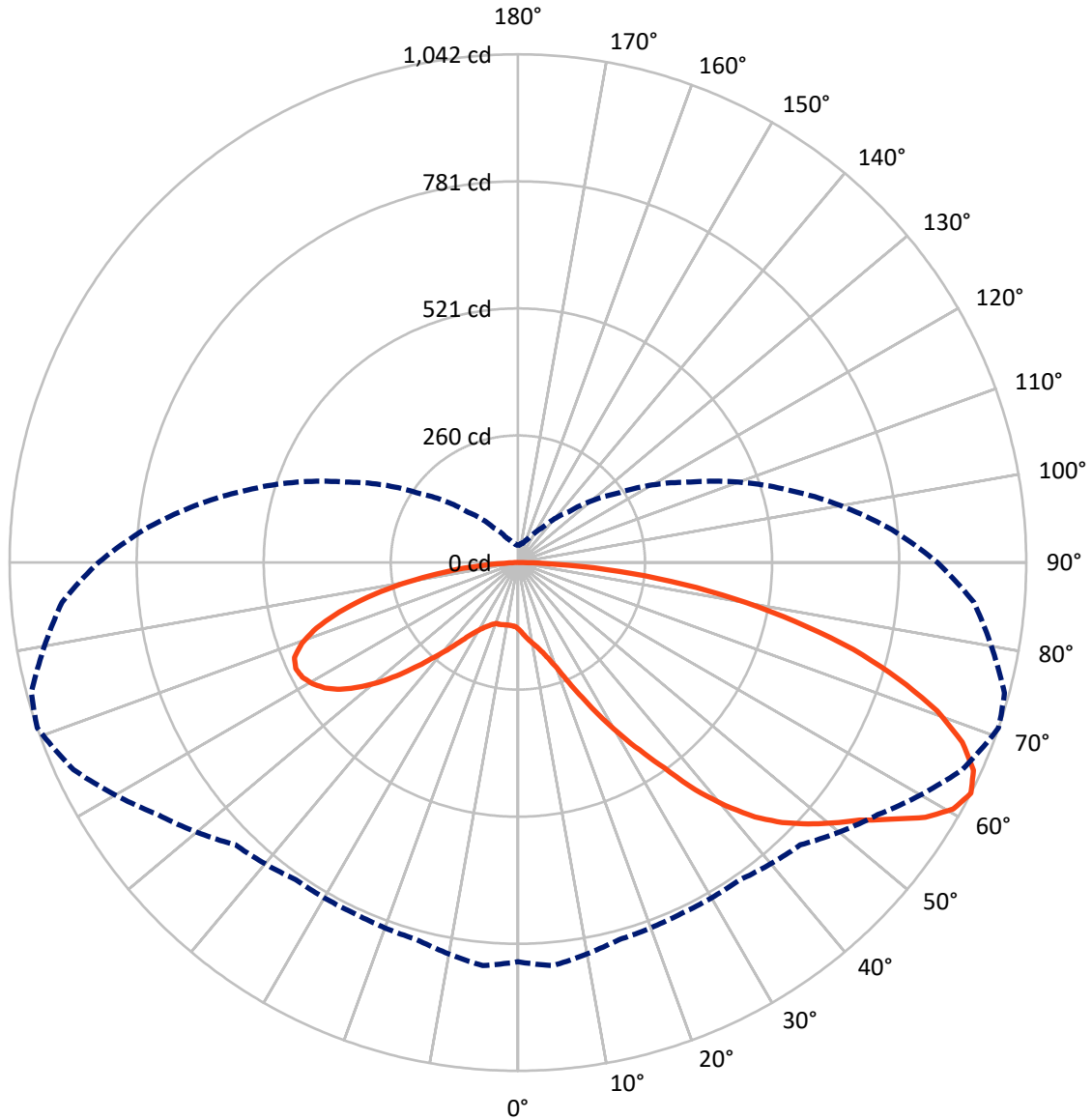
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P553645
CATALOG NUMBER: ARB-B1-LED-D1-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P553645

CATALOG NUMBER: ARB-B1-LED-D1-T3

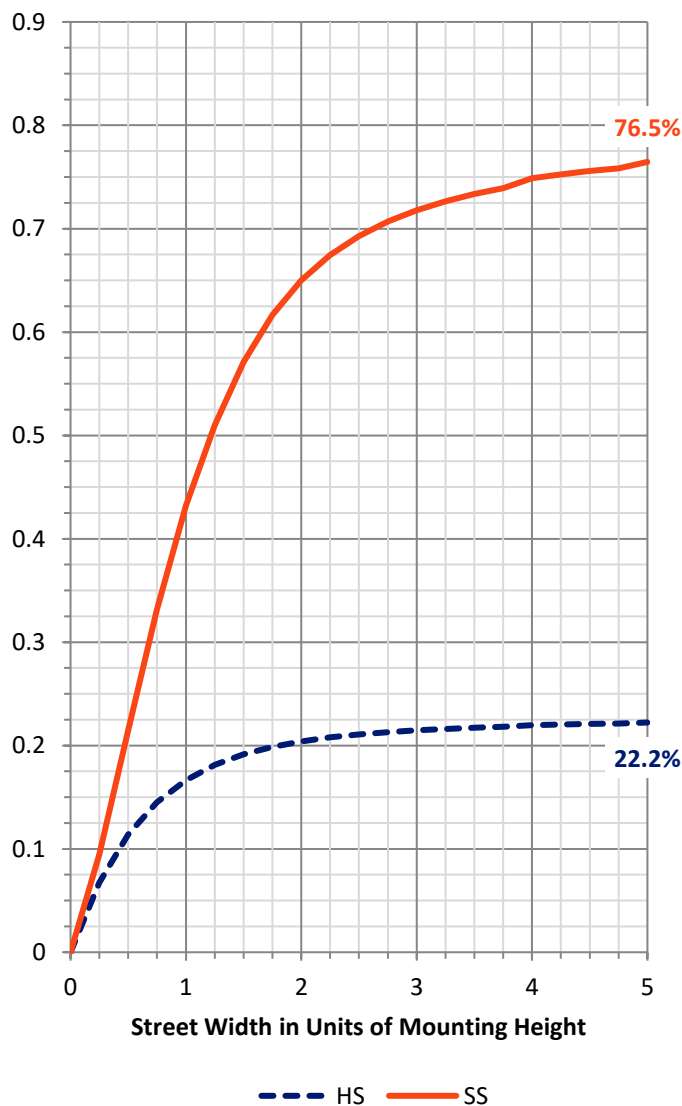
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	522.8	0.0	522.8
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	1801.2	0.0	1801.2
	% Fixture	77.5	0.0	77.5
Total	Lumens	2324.0	0.0	2324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	0.6
10°-20°	52.5	2.3
20°-30°	123.1	5.3
30°-40°	233.9	10.1
40°-50°	366.0	15.7
50°-60°	500.7	21.5
60°-70°	537.3	23.1
70°-80°	385.8	16.6
80°-90°	110.7	4.8
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°	2324.0	100.0
0°-180°	2324.0	100.0

Coefficient of Utilization



REPORT NUMBER: P553645

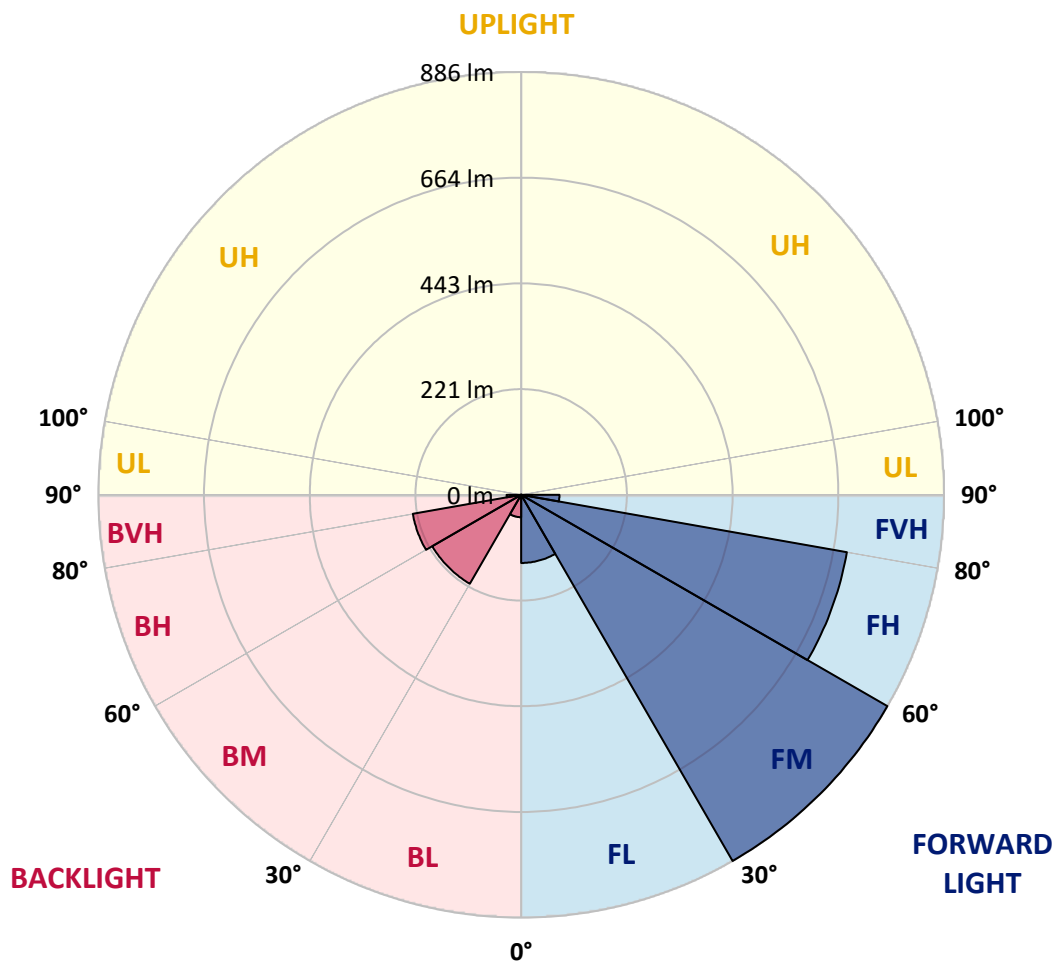
CATALOG NUMBER: ARB-B1-LED-D1-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	142.7	6.1			
FM	(30°-60°)	885.7	38.1			
FH	(60°-80°)	692.7	29.8			G1/1800
FVH	(80°-90°)	80.1	3.4			G1/100
BL	(0°-30°)	46.9	2.0	B0/110		
BM	(30°-60°)	214.9	9.2	B0/220		
BH	(60°-80°)	230.4	9.9	B1/500		G1/500
BVH	(80°-90°)	30.6	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: P553645

CATALOG NUMBER: ARB-B1-LED-D1-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1
2.5°	157.7	157.1	156.9	155.5	153.5	150.5	148.3	144.1	142.7	140.8	138.0
5°	177.9	177.3	177.1	174.6	171.0	166.8	161.6	155.8	151.3	149.4	142.7
7.5°	200.8	199.5	196.7	192.3	186.5	179.5	172.9	165.2	159.9	156.3	147.5
10°	229.1	227.7	222.7	215.0	205.5	194.8	183.7	174.3	168.8	164.6	152.7
12.5°	257.6	256.2	249.3	239.6	226.6	211.6	196.7	184.5	178.7	173.5	159.3
15°	324.2	323.7	300.7	277.2	255.1	236.5	218.8	200.6	191.2	185.1	167.9
17.5°	440.1	432.1	395.6	345.3	302.6	271.9	249.3	222.1	209.1	199.7	177.1
20°	497.1	493.0	463.4	423.3	373.2	325.3	292.1	258.1	231.8	217.4	185.9
22.5°	532.3	529.5	499.3	470.6	438.2	392.3	342.2	299.6	267.2	244.6	202.8
25°	552.5	551.4	531.4	506.8	480.5	452.6	405.6	349.7	306.2	278.9	223.8
27.5°	562.7	563.5	546.7	532.0	522.6	504.3	469.2	397.5	353.6	320.6	250.9
30°	605.0	605.0	585.4	561.9	561.6	555.5	526.5	449.0	404.7	369.9	288.5
32.5°	675.0	682.5	649.6	611.9	604.2	605.9	580.4	507.9	458.1	426.6	337.0
35°	762.7	767.4	724.8	674.7	658.1	647.3	629.6	569.9	516.8	484.1	391.5
37.5°	816.4	823.0	787.6	739.7	709.3	690.2	676.1	631.0	591.2	557.4	456.7
40°	860.4	866.2	829.9	778.2	751.9	726.7	717.6	688.0	654.8	624.7	519.0
42.5°	869.8	877.2	835.2	799.5	769.9	752.8	746.7	735.0	712.9	682.2	579.6
45°	798.1	811.7	816.4	793.7	778.2	771.3	771.0	776.3	759.9	734.2	639.3
47.5°	790.7	805.6	795.6	800.9	783.2	781.2	788.2	810.8	800.6	783.2	691.9
50°	876.1	881.7	828.0	829.7	805.3	806.1	813.6	842.1	838.8	827.2	738.9
52.5°	919.0	926.8	854.3	835.2	835.2	839.6	849.0	878.6	877.2	873.6	783.2
55°	984.6	990.4	913.2	858.4	854.6	864.8	890.2	923.7	928.1	922.3	833.0
57.5°	947.8	958.9	909.9	868.7	855.4	867.8	919.6	971.3	984.9	971.6	881.4
60°	889.4	898.8	863.1	840.7	835.2	852.9	922.1	1002.8	1025.5	1012.5	920.7
62.5°	818.3	829.1	800.1	793.4	793.7	818.3	900.8	1004.8	1041.8	1032.4	938.1
65°	732.6	745.3	729.2	736.2	739.7	776.3	859.5	982.9	1026.1	1023.9	934.2
67.5°	661.7	668.9	654.0	670.0	675.0	717.1	807.0	938.9	982.1	982.4	903.8
70°	595.1	600.0	581.5	597.3	606.1	650.7	745.6	872.0	911.8	914.9	848.7
72.5°	531.4	524.5	504.3	517.3	532.3	577.4	673.9	786.2	815.8	821.9	770.5
75°	455.9	446.0	422.2	436.8	450.4	494.1	587.6	678.9	710.4	709.6	670.6
77.5°	377.9	366.8	345.0	354.4	368.5	408.3	488.6	559.7	581.2	594.8	552.7
80°	285.2	280.2	263.6	268.9	279.1	313.7	382.9	436.0	451.2	451.8	424.4
82.5°	202.0	195.9	186.2	185.1	196.4	223.3	274.4	307.1	315.1	319.0	288.0
85°	108.4	110.4	108.4	99.0	111.8	130.3	159.1	178.7	182.0	187.8	163.2
87.5°	29.9	26.3	29.3	28.2	30.4	34.6	41.8	51.5	52.3	53.4	45.4
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: P553645
 CATALOG NUMBER: ARB-B1-LED-D1-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1
2.5°	136.4	135.0	132.2	130.3	128.6	127.3	126.7	126.2	125.6	125.3	125.6
5°	139.7	136.9	132.0	127.8	124.8	122.0	120.3	118.7	117.6	117.3	117.3
7.5°	142.7	138.9	132.0	126.2	121.4	117.3	113.7	111.2	109.3	108.4	107.9
10°	146.9	141.9	132.8	125.3	118.4	112.6	108.2	104.8	102.6	102.1	101.0
12.5°	151.9	145.5	134.2	124.8	116.2	109.0	103.7	99.9	97.4	95.7	95.2
15°	158.5	149.9	136.1	124.2	114.3	106.2	100.1	94.9	91.0	88.5	88.5
17.5°	164.9	154.6	138.3	123.7	112.6	103.2	95.7	89.9	85.8	83.8	83.3
20°	170.4	158.2	138.9	122.3	110.1	99.6	91.0	85.2	81.3	79.1	79.1
22.5°	182.6	167.9	144.1	124.5	109.8	97.1	88.2	81.6	76.9	74.4	74.1
25°	199.5	179.8	151.0	127.5	109.8	96.0	85.8	77.7	72.5	70.3	70.0
27.5°	222.4	197.0	159.6	131.7	110.4	94.9	82.7	74.4	68.9	66.1	66.1
30°	251.7	220.8	171.2	136.7	111.5	93.5	80.0	70.5	64.2	60.9	60.9
32.5°	289.1	247.3	187.0	142.7	112.9	92.4	77.5	66.7	60.0	56.7	56.4
35°	340.3	289.1	208.3	152.7	115.6	91.3	74.7	63.4	56.7	53.7	53.4
37.5°	396.4	334.5	237.4	165.7	121.4	91.8	73.6	61.7	54.8	51.7	51.5
40°	458.1	387.3	271.1	182.6	128.9	94.6	73.9	61.7	54.5	51.5	51.2
42.5°	515.9	444.6	306.5	203.6	138.9	99.9	75.8	61.4	53.9	50.3	50.1
45°	569.3	495.2	348.0	231.3	151.9	104.6	76.9	60.3	52.6	49.2	48.7
47.5°	621.3	545.0	393.9	260.3	166.5	109.6	77.5	59.8	51.5	48.1	47.9
50°	673.1	598.9	439.3	289.6	181.5	115.6	78.3	59.8	49.8	46.8	46.2
52.5°	719.6	645.7	481.1	316.2	197.0	123.4	80.5	59.2	48.4	45.1	44.8
55°	762.4	685.5	518.4	341.1	213.3	131.4	83.5	57.8	47.3	43.4	43.2
57.5°	804.8	718.7	544.7	362.7	227.7	138.6	85.5	57.0	45.9	41.2	40.7
60°	839.9	751.1	562.1	378.7	239.0	144.1	86.6	56.7	44.0	38.7	38.5
62.5°	859.8	769.6	574.3	389.8	246.2	147.5	87.4	55.9	41.8	36.5	35.4
65°	857.6	770.5	578.7	393.4	249.0	148.0	86.6	53.7	40.4	33.5	32.4
67.5°	831.9	751.4	569.6	389.0	245.4	145.0	83.8	50.1	37.9	29.9	29.6
70°	785.7	709.9	539.7	371.8	236.0	137.2	78.8	46.2	34.6	27.1	26.3
72.5°	712.1	645.4	493.0	345.3	217.4	125.9	72.5	42.3	31.0	25.5	24.1
75°	623.8	563.2	429.4	304.6	193.9	111.5	64.2	37.9	26.8	23.5	22.4
77.5°	515.4	468.1	356.3	254.8	163.5	96.0	54.8	32.6	22.4	21.3	21.0
80°	395.3	354.1	273.9	198.4	129.2	76.6	44.8	27.9	18.5	18.3	18.8
82.5°	266.1	241.0	185.6	139.7	93.5	55.3	33.8	21.6	15.2	15.2	15.5
85°	146.3	132.5	108.2	77.2	55.1	34.9	22.7	15.8	12.2	11.9	12.2
87.5°	40.9	36.8	31.3	24.1	20.2	14.1	11.3	9.7	8.6	8.6	8.6
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)