

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: P553644

Luminaire Tested: **ARB-B1-LED-D1-T3-8030**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553644
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-T3-8030
Description: ARBOR OUTDOOR ARCHITECTURAL POST TOP
80 CRI, 3000K LEDS AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1941 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

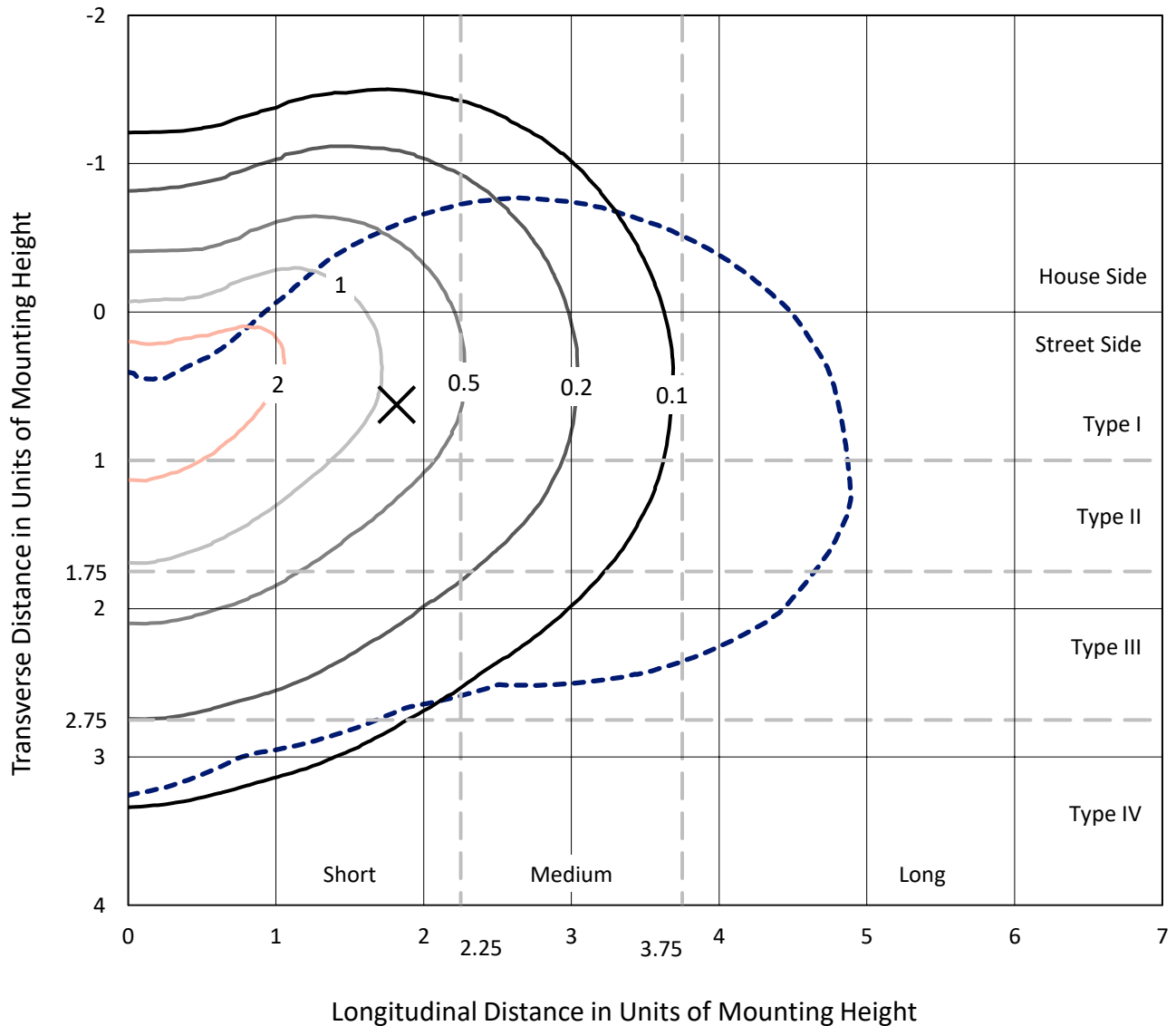
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

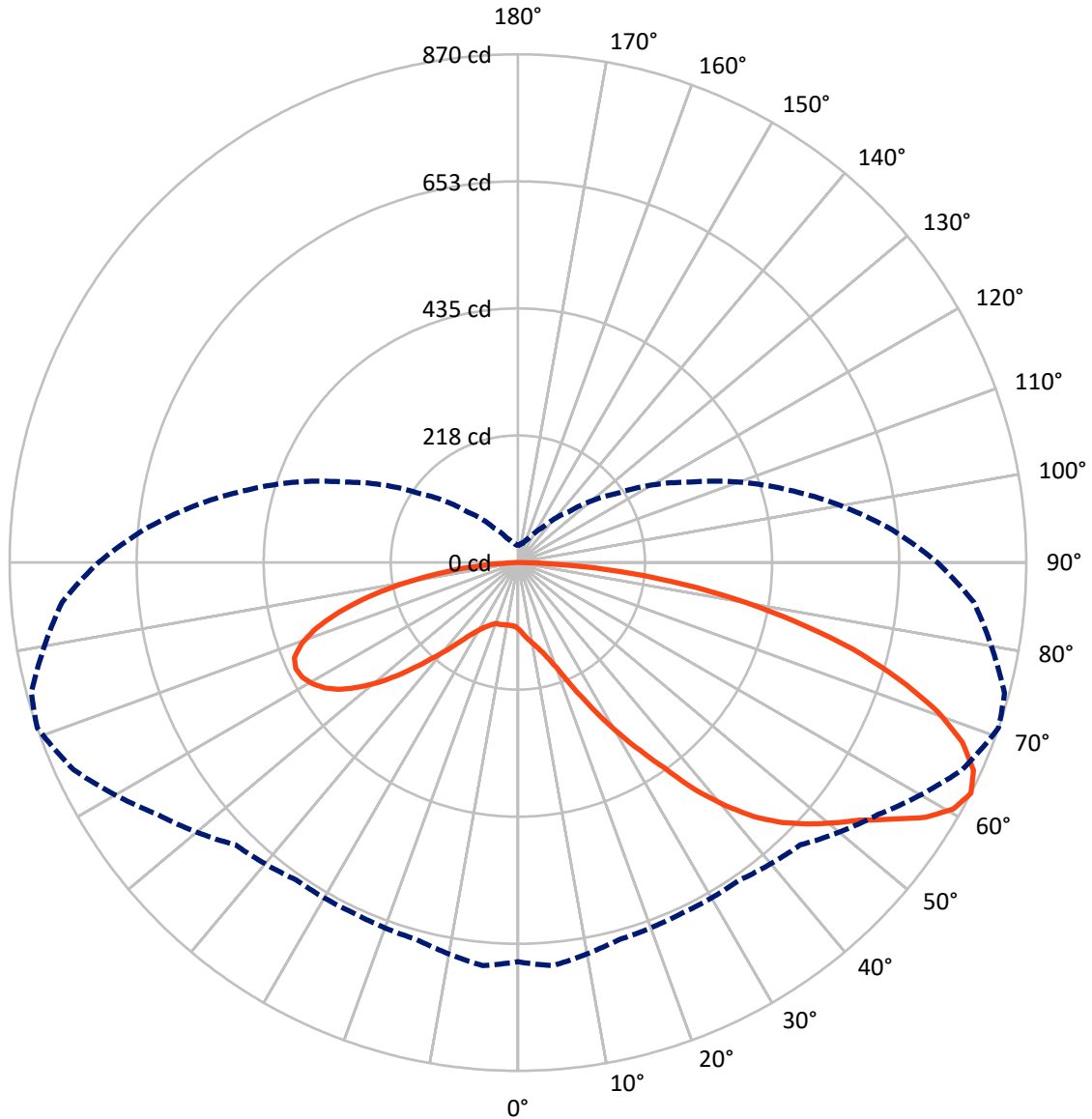
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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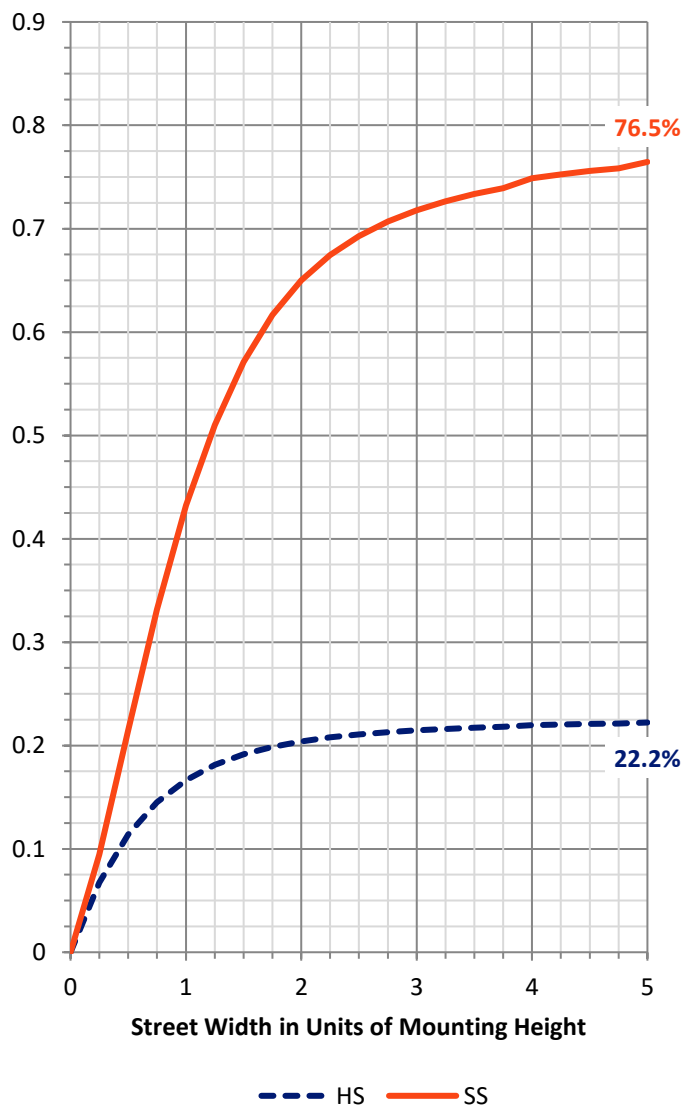
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	436.6	0.0	436.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	1504.4	0.0	1504.4
	% Fixture	77.5	0.0	77.5
Total	Lumens	1941.0	0.0	1941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	0.6
10°-20°	43.8	2.3
20°-30°	102.8	5.3
30°-40°	195.3	10.1
40°-50°	305.7	15.7
50°-60°	418.1	21.5
60°-70°	448.7	23.1
70°-80°	322.2	16.6
80°-90°	92.5	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°	1941.0	100.0
0°-180°	1941.0	100.0

Coefficient of Utilization



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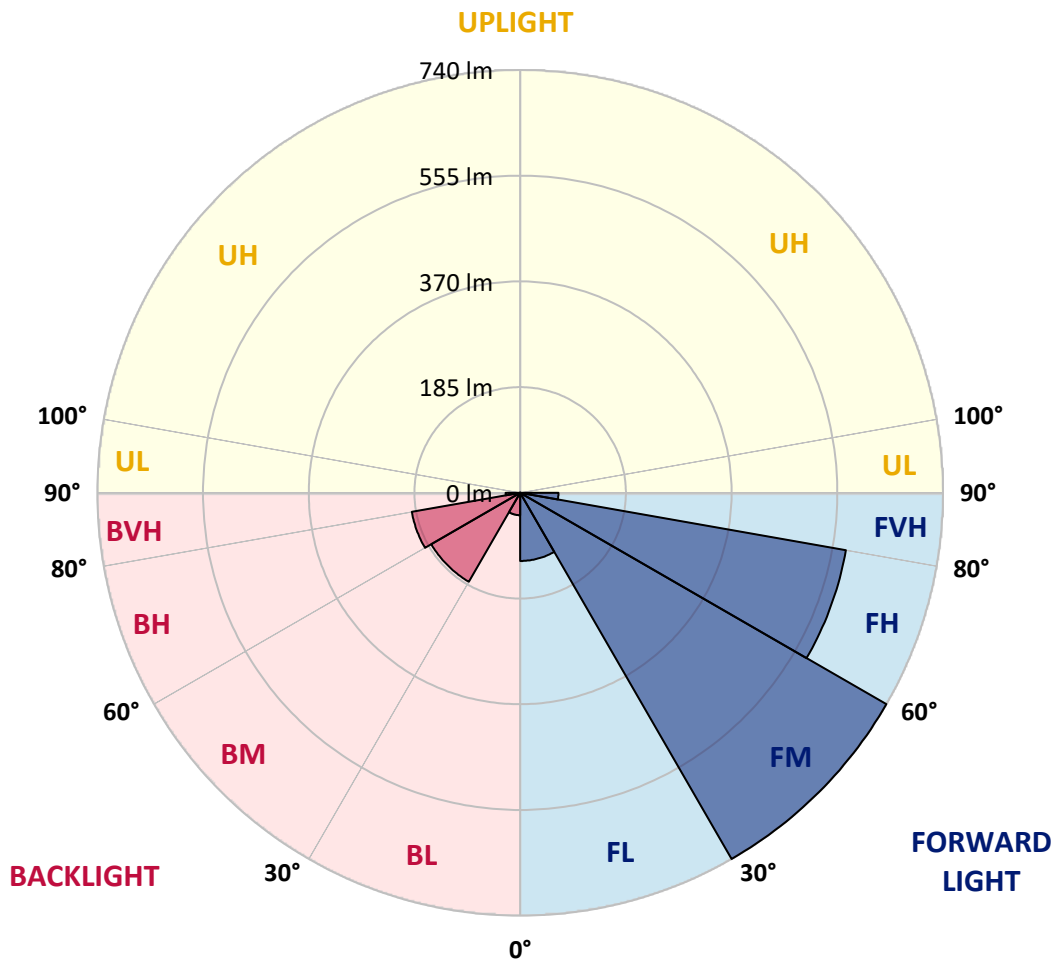
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	119.2	6.1			
FM (30°-60°)	739.7	38.1			
FH (60°-80°)	578.6	29.8			G0/660
FVH (80°-90°)	66.9	3.4			G1/100
BL (0°-30°)	39.2	2.0	B0/110		
BM (30°-60°)	179.5	9.2	B0/220		
BH (60°-80°)	192.4	9.9	B1/500		G1/500
BVH (80°-90°)	25.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7
2.5°	131.7	131.2	131.0	129.9	128.2	125.7	123.8	120.4	119.2	117.6	115.3
5°	148.6	148.1	147.9	145.8	142.8	139.3	134.9	130.1	126.4	124.8	119.2
7.5°	167.7	166.6	164.3	160.6	155.7	150.0	144.4	137.9	133.5	130.5	123.2
10°	191.3	190.2	186.0	179.5	171.7	162.7	153.4	145.6	140.9	137.5	127.5
12.5°	215.1	214.0	208.2	200.1	189.2	176.8	164.3	154.1	149.3	144.9	133.1
15°	270.8	270.3	251.2	231.5	213.0	197.6	182.8	167.5	159.7	154.6	140.2
17.5°	367.6	360.9	330.4	288.4	252.8	227.1	208.2	185.5	174.7	166.8	147.9
20°	415.2	411.7	387.0	353.5	311.7	271.7	244.0	215.6	193.6	181.6	155.3
22.5°	444.5	442.2	417.1	393.0	366.0	327.6	285.8	250.2	223.2	204.3	169.4
25°	461.4	460.5	443.9	423.3	401.3	378.0	338.7	292.1	255.8	232.9	186.9
27.5°	470.0	470.7	456.6	444.3	436.5	421.2	391.9	332.0	295.3	267.8	209.6
30°	505.3	505.3	488.9	469.3	469.0	464.0	439.7	375.0	338.0	308.9	241.0
32.5°	563.8	570.0	542.5	511.1	504.6	506.0	484.8	424.2	382.6	356.3	281.4
35°	637.0	640.9	605.4	563.5	549.7	540.7	525.9	476.0	431.6	404.3	326.9
37.5°	681.8	687.4	657.8	617.8	592.4	576.5	564.7	527.0	493.8	465.6	381.5
40°	718.6	723.4	693.2	650.0	628.0	607.0	599.4	574.6	546.9	521.7	433.5
42.5°	726.4	732.7	697.6	667.7	643.0	628.7	623.6	613.9	595.4	569.8	484.1
45°	666.6	677.9	681.8	662.9	650.0	644.2	643.9	648.3	634.7	613.2	534.0
47.5°	660.4	672.8	664.5	668.9	654.1	652.5	658.3	677.2	668.7	654.1	577.9
50°	731.7	736.4	691.5	692.9	672.6	673.3	679.5	703.3	700.6	690.8	617.1
52.5°	767.6	774.0	713.5	697.6	697.6	701.2	709.1	733.8	732.7	729.7	654.1
55°	822.3	827.2	762.7	717.0	713.7	722.3	743.5	771.5	775.2	770.3	695.7
57.5°	791.6	800.8	759.9	725.5	714.4	724.8	768.0	811.2	822.6	811.5	736.1
60°	742.8	750.7	720.9	702.2	697.6	712.3	770.1	837.6	856.5	845.7	768.9
62.5°	683.5	692.5	668.2	662.7	662.9	683.5	752.3	839.2	870.1	862.3	783.5
65°	611.8	622.5	609.1	614.8	617.8	648.3	717.9	820.9	857.0	855.1	780.3
67.5°	552.7	558.7	546.2	559.6	563.8	598.9	674.0	784.2	820.2	820.5	754.9
70°	497.0	501.2	485.7	498.8	506.2	543.4	622.7	728.3	761.6	764.1	708.9
72.5°	443.9	438.1	421.2	432.1	444.5	482.2	562.8	656.7	681.4	686.5	643.5
75°	380.8	372.5	352.6	364.8	376.2	412.7	490.8	567.0	593.3	592.7	560.1
77.5°	315.6	306.4	288.1	296.0	307.8	341.0	408.0	467.4	485.4	496.8	461.6
80°	238.2	234.1	220.2	224.6	233.1	262.0	319.8	364.1	376.8	377.3	354.4
82.5°	168.7	163.6	155.5	154.6	164.0	186.5	229.2	256.5	263.2	266.4	240.5
85°	90.6	92.2	90.6	82.7	93.3	108.8	132.9	149.3	152.0	156.9	136.3
87.5°	25.0	22.0	24.5	23.6	25.4	28.9	34.9	43.0	43.7	44.6	37.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7
2.5°	113.9	112.8	110.4	108.8	107.4	106.3	105.8	105.4	104.9	104.7	104.9
5°	116.7	114.4	110.2	106.7	104.2	101.9	100.5	99.1	98.2	98.0	98.0
7.5°	119.2	116.0	110.2	105.4	101.4	98.0	95.0	92.9	91.3	90.6	90.1
10°	122.7	118.5	110.9	104.7	98.9	94.0	90.3	87.6	85.7	85.3	84.3
12.5°	126.8	121.5	112.1	104.2	97.0	91.0	86.6	83.4	81.3	79.9	79.5
15°	132.4	125.2	113.7	103.7	95.4	88.7	83.6	79.3	76.0	73.9	73.9
17.5°	137.7	129.2	115.5	103.3	94.0	86.2	79.9	75.1	71.6	70.0	69.5
20°	142.3	132.2	116.0	102.1	92.0	83.2	76.0	71.2	67.9	66.1	66.1
22.5°	152.5	140.2	120.4	104.0	91.7	81.1	73.7	68.2	64.2	62.2	61.9
25°	166.6	150.2	126.2	106.5	91.7	80.2	71.6	64.9	60.5	58.7	58.5
27.5°	185.8	164.5	133.3	110.0	92.2	79.3	69.1	62.2	57.5	55.2	55.2
30°	210.3	184.4	143.0	114.1	93.1	78.1	66.8	58.9	53.6	50.8	50.8
32.5°	241.5	206.6	156.2	119.2	94.3	77.2	64.7	55.7	50.1	47.4	47.1
35°	284.2	241.5	174.0	127.5	96.6	76.2	62.4	52.9	47.4	44.8	44.6
37.5°	331.1	279.3	198.2	138.4	101.4	76.7	61.5	51.5	45.7	43.2	43.0
40°	382.6	323.5	226.4	152.5	107.7	79.0	61.7	51.5	45.5	43.0	42.7
42.5°	430.9	371.3	256.0	170.1	116.0	83.4	63.3	51.3	45.1	42.1	41.8
45°	475.5	413.6	290.7	193.2	126.8	87.3	64.2	50.4	43.9	41.1	40.7
47.5°	518.9	455.2	329.0	217.4	139.1	91.5	64.7	49.9	43.0	40.2	40.0
50°	562.2	500.2	366.9	241.9	151.6	96.6	65.4	49.9	41.6	39.0	38.6
52.5°	601.0	539.3	401.8	264.1	164.5	103.0	67.2	49.4	40.4	37.7	37.4
55°	636.8	572.6	433.0	284.9	178.1	109.8	69.8	48.3	39.5	36.3	36.0
57.5°	672.1	600.3	454.9	302.9	190.2	115.8	71.4	47.6	38.4	34.4	34.0
60°	701.5	627.3	469.5	316.3	199.6	120.4	72.3	47.4	36.7	32.3	32.1
62.5°	718.1	642.8	479.7	325.6	205.6	123.2	73.0	46.7	34.9	30.5	29.6
65°	716.3	643.5	483.4	328.6	207.9	123.6	72.3	44.8	33.7	28.0	27.0
67.5°	694.8	627.5	475.7	324.9	204.9	121.1	70.0	41.8	31.7	25.0	24.7
70°	656.2	592.9	450.8	310.5	197.1	114.6	65.9	38.6	28.9	22.6	22.0
72.5°	594.7	539.0	411.7	288.4	181.6	105.1	60.5	35.4	25.9	21.3	20.1
75°	521.0	470.4	358.6	254.4	162.0	93.1	53.6	31.7	22.4	19.6	18.7
77.5°	430.5	390.9	297.6	212.8	136.6	80.2	45.7	27.3	18.7	17.8	17.6
80°	330.2	295.7	228.7	165.7	107.9	64.0	37.4	23.3	15.5	15.2	15.7
82.5°	222.3	201.2	155.0	116.7	78.1	46.2	28.2	18.0	12.7	12.7	12.9
85°	122.2	110.7	90.3	64.5	46.0	29.1	18.9	13.2	10.2	9.9	10.2
87.5°	34.2	30.7	26.1	20.1	16.9	11.8	9.5	8.1	7.2	7.2	7.2
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)