

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: P553643

Luminaire Tested: **ARB-B1-LED-D1-T3-7030**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553643
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-T3-7030
Description: ARBOR OUTDOOR ARCHITECTURAL POST TOP
70 CRI, 3000K LEDS AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2151 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

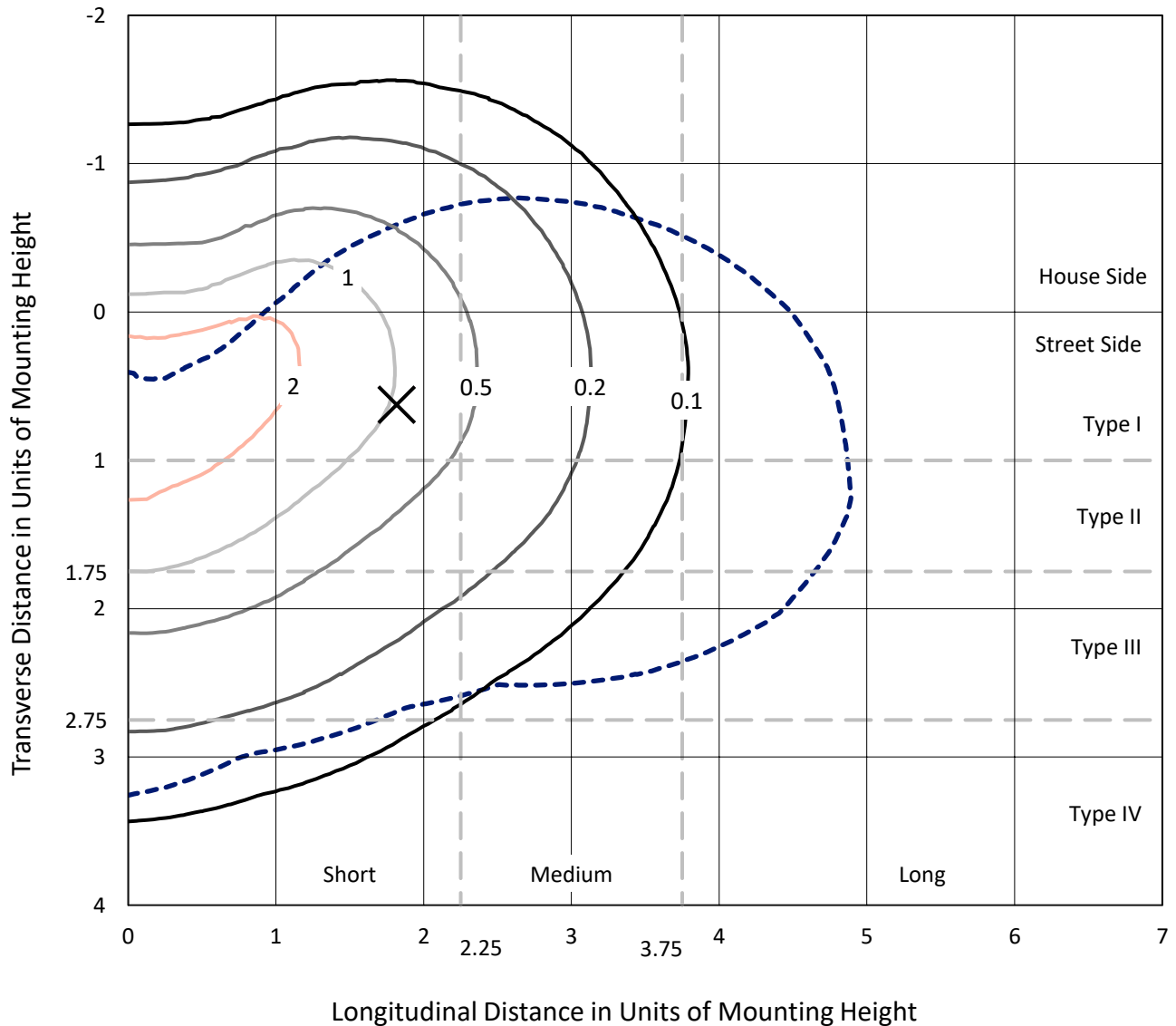
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

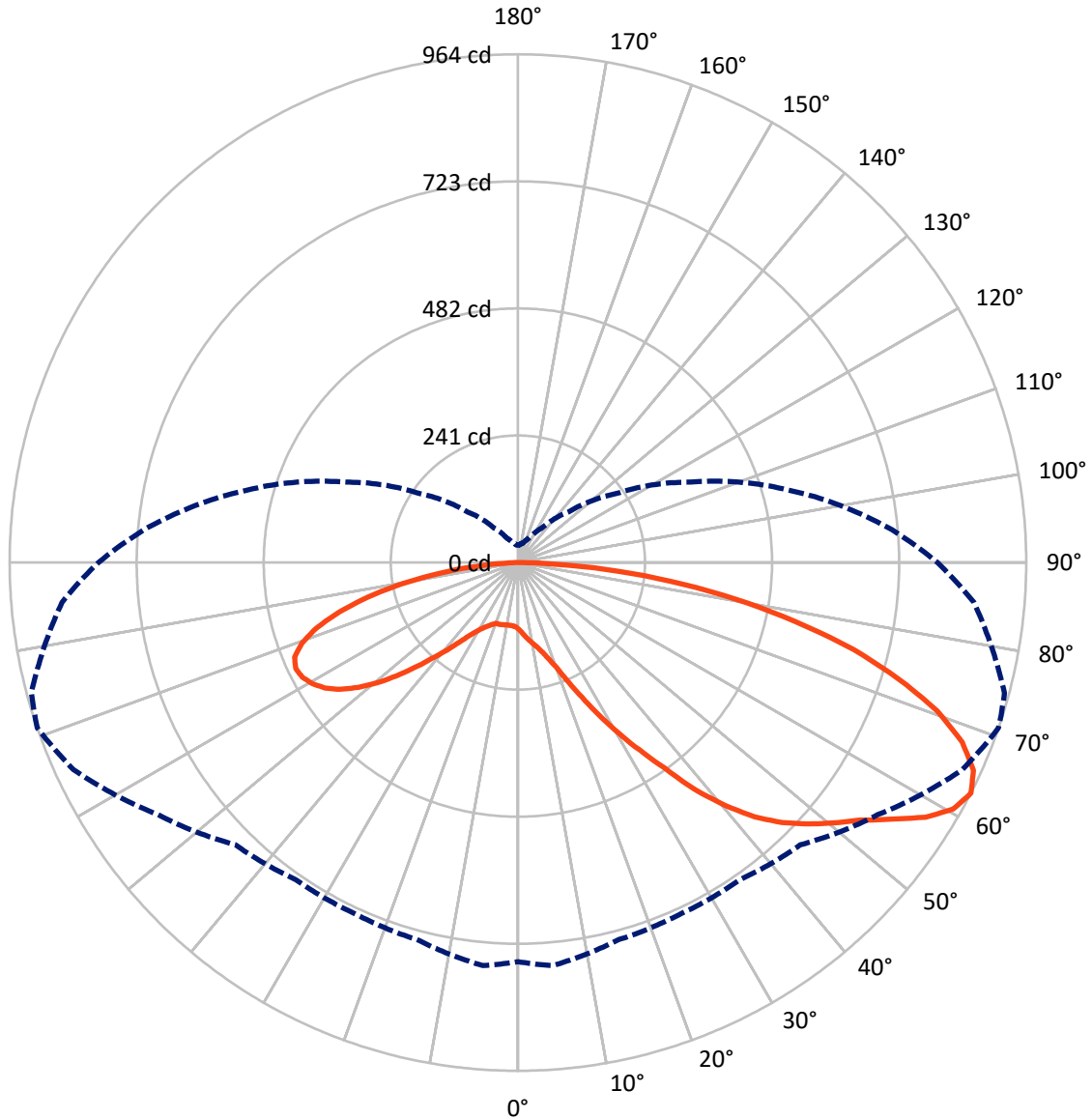
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 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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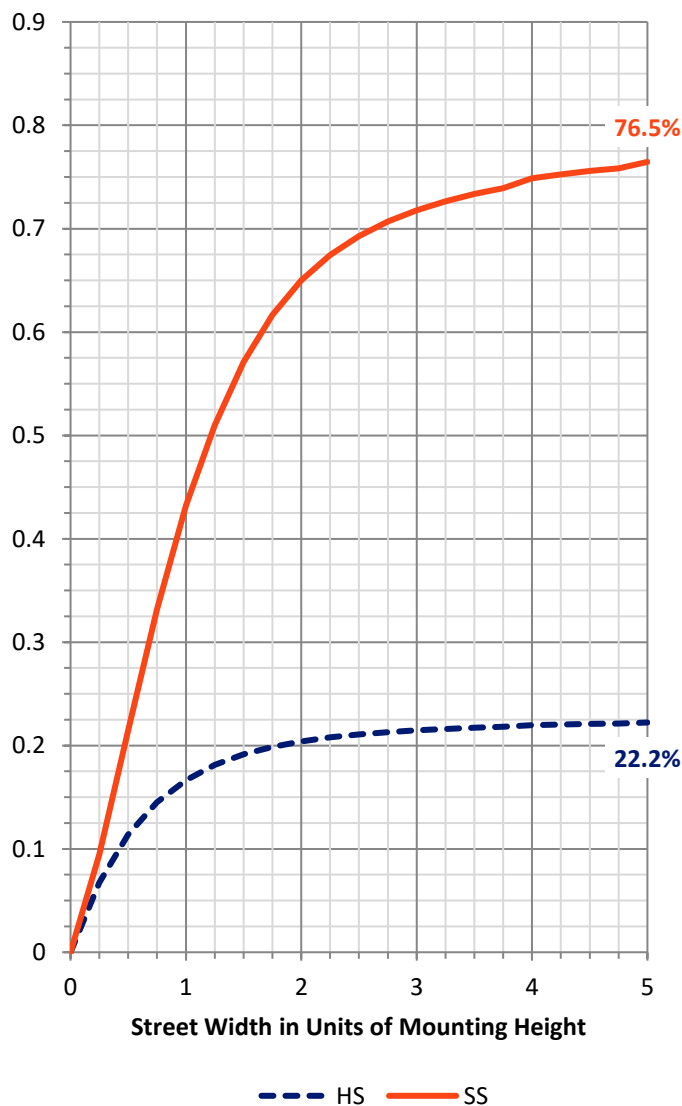
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	483.9	0.0	483.9
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	1667.1	0.0	1667.1
	% Fixture	77.5	0.0	77.5
Total	Lumens	2151.0	0.0	2151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	0.6
10°-20°	48.6	2.3
20°-30°	114.0	5.3
30°-40°	216.5	10.1
40°-50°	338.8	15.7
50°-60°	463.4	21.5
60°-70°	497.3	23.1
70°-80°	357.1	16.6
80°-90°	102.5	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°	2151.0	100.0
0°-180°	2151.0	100.0

Coefficient of Utilization



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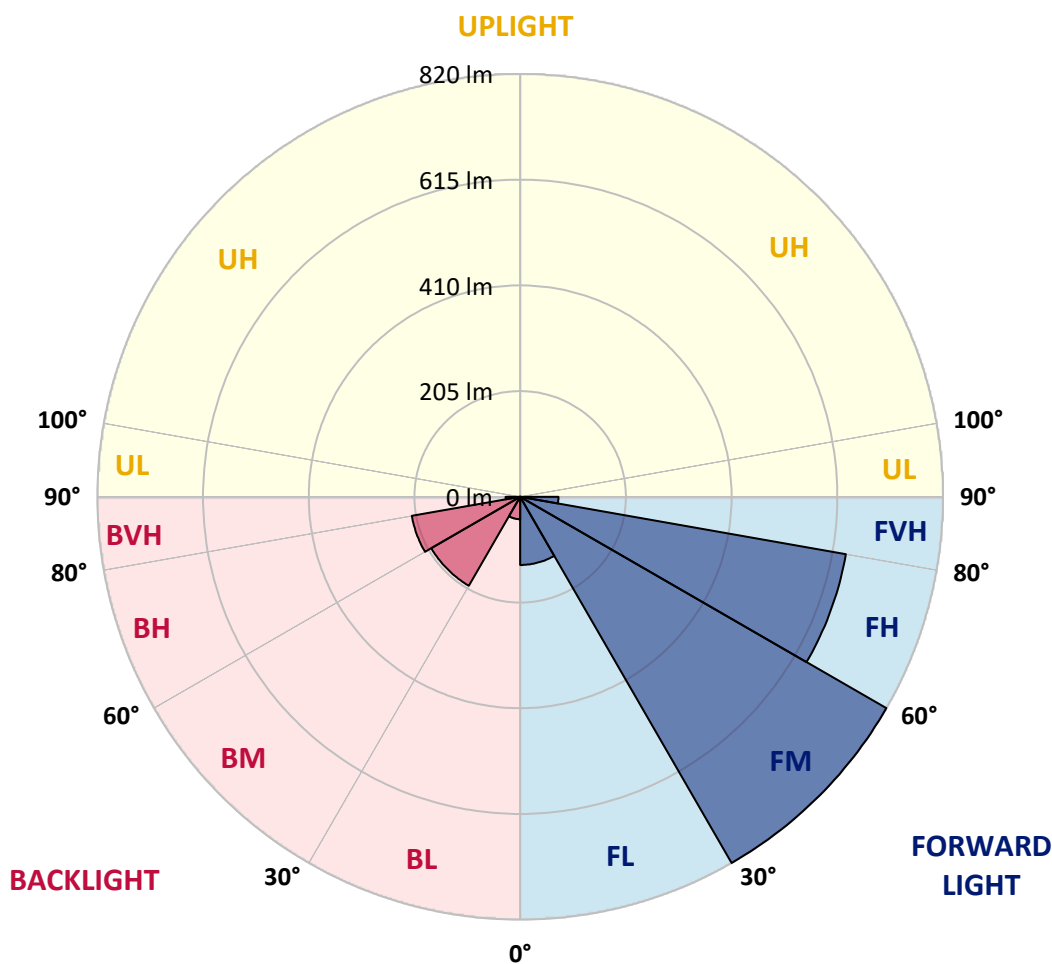
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	132.1	6.1			
FM	(30°-60°)	819.7	38.1			
FH	(60°-80°)	641.1	29.8			G0/660
FVH	(80°-90°)	74.2	3.4			G1/100
BL	(0°-30°)	43.4	2.0	B0/110		
BM	(30°-60°)	198.9	9.2	B0/220		
BH	(60°-80°)	213.2	9.9	B1/500		G1/500
BVH	(80°-90°)	28.3	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°	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0
2.5°	145.9	145.4	145.2	143.9	142.1	139.3	137.2	133.4	132.1	130.3	127.8
5°	164.6	164.1	163.9	161.6	158.2	154.4	149.5	144.2	140.1	138.3	132.1
7.5°	185.9	184.6	182.1	178.0	172.6	166.2	160.0	152.9	148.0	144.7	136.5
10°	212.0	210.7	206.1	199.0	190.2	180.3	170.0	161.3	156.2	152.4	141.3
12.5°	238.4	237.1	230.7	221.7	209.7	195.9	182.1	170.8	165.4	160.5	147.5
15°	300.1	299.6	278.3	256.6	236.1	218.9	202.5	185.6	176.9	171.3	155.4
17.5°	407.4	400.0	366.2	319.6	280.1	251.7	230.7	205.6	193.6	184.9	163.9
20°	460.1	456.3	428.9	391.8	345.4	301.1	270.4	238.9	214.6	201.3	172.1
22.5°	492.6	490.1	462.2	435.5	405.6	363.1	316.7	277.3	247.3	226.3	187.7
25°	511.3	510.3	491.9	469.1	444.8	418.9	375.4	323.6	283.4	258.1	207.1
27.5°	520.8	521.6	506.0	492.4	483.7	466.8	434.3	367.9	327.2	296.8	232.2
30°	560.0	560.0	541.8	520.0	519.8	514.2	487.3	415.6	374.6	342.3	267.1
32.5°	624.8	631.7	601.2	566.4	559.2	560.8	537.2	470.1	424.0	394.8	311.9
35°	705.9	710.3	670.9	624.5	609.1	599.2	582.8	527.5	478.3	448.1	362.3
37.5°	755.6	761.8	729.0	684.7	656.5	638.8	625.8	584.1	547.2	515.9	422.7
40°	796.3	801.7	768.2	720.3	695.9	672.6	664.2	636.8	606.1	578.2	480.4
42.5°	805.0	811.9	773.0	740.0	712.6	696.7	691.1	680.3	659.8	631.4	536.4
45°	738.7	751.3	755.6	734.6	720.3	713.9	713.6	718.5	703.4	679.6	591.7
47.5°	731.8	745.6	736.4	741.3	724.9	723.1	729.5	750.5	741.0	724.9	640.4
50°	810.9	816.0	766.4	767.9	745.4	746.1	753.0	779.4	776.3	765.6	683.9
52.5°	850.6	857.8	790.7	773.0	773.0	777.1	785.8	813.2	811.9	808.6	724.9
55°	911.3	916.7	845.2	794.5	790.9	800.4	824.0	855.0	859.1	853.7	771.0
57.5°	877.2	887.5	842.2	804.0	791.7	803.2	851.1	899.0	911.5	899.3	815.8
60°	823.2	831.9	798.9	778.1	773.0	789.4	853.4	928.2	949.2	937.1	852.1
62.5°	757.4	767.4	740.5	734.4	734.6	757.4	833.7	930.0	964.3	955.6	868.3
65°	678.0	689.8	675.0	681.4	684.7	718.5	795.6	909.8	949.7	947.6	864.7
67.5°	612.5	619.1	605.3	620.2	624.8	663.7	746.9	869.0	909.0	909.2	836.5
70°	550.8	555.4	538.2	552.8	561.0	602.2	690.1	807.1	843.9	846.8	785.6
72.5°	491.9	485.5	466.8	478.8	492.6	534.4	623.7	727.7	755.1	760.7	713.1
75°	422.0	412.8	390.7	404.3	416.9	457.3	543.9	628.4	657.5	656.8	620.7
77.5°	349.8	339.5	319.3	328.0	341.1	377.9	452.2	518.0	538.0	550.5	511.6
80°	264.0	259.4	244.0	248.9	258.4	290.4	354.4	403.5	417.6	418.1	392.8
82.5°	186.9	181.3	172.3	171.3	181.8	206.6	254.0	284.2	291.6	295.2	266.5
85°	100.4	102.2	100.4	91.7	103.4	120.6	147.2	165.4	168.5	173.9	151.1
87.5°	27.7	24.3	27.1	26.1	28.2	32.0	38.7	47.6	48.4	49.4	42.0
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°	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0
2.5°	126.2	125.0	122.4	120.6	119.1	117.8	117.3	116.8	116.2	116.0	116.2
5°	129.3	126.7	122.1	118.3	115.5	112.9	111.4	109.8	108.8	108.6	108.6
7.5°	132.1	128.5	122.1	116.8	112.4	108.6	105.2	102.9	101.1	100.4	99.9
10°	136.0	131.4	122.9	116.0	109.6	104.2	100.1	97.0	95.0	94.5	93.5
12.5°	140.6	134.7	124.2	115.5	107.5	100.9	96.0	92.4	90.1	88.6	88.1
15°	146.7	138.8	126.0	115.0	105.7	98.3	92.7	87.8	84.2	81.9	81.9
17.5°	152.6	143.1	128.0	114.5	104.2	95.5	88.6	83.2	79.4	77.6	77.1
20°	157.7	146.5	128.5	113.2	101.9	92.2	84.2	78.9	75.3	73.2	73.2
22.5°	169.0	155.4	133.4	115.2	101.7	89.9	81.7	75.5	71.2	68.9	68.6
25°	184.6	166.4	139.8	118.0	101.7	88.8	79.4	72.0	67.1	65.0	64.8
27.5°	205.9	182.3	147.7	121.9	102.2	87.8	76.6	68.9	63.8	61.2	61.2
30°	233.0	204.3	158.5	126.5	103.2	86.5	74.0	65.3	59.4	56.3	56.3
32.5°	267.6	228.9	173.1	132.1	104.5	85.5	71.7	61.7	55.6	52.5	52.2
35°	314.9	267.6	192.8	141.3	107.0	84.5	69.1	58.6	52.5	49.7	49.4
37.5°	366.9	309.6	219.7	153.4	112.4	85.0	68.1	57.1	50.7	47.9	47.6
40°	424.0	358.5	250.9	169.0	119.3	87.6	68.4	57.1	50.4	47.6	47.4
42.5°	477.5	411.5	283.7	188.5	128.5	92.4	70.2	56.8	49.9	46.6	46.3
45°	527.0	458.3	322.1	214.1	140.6	96.8	71.2	55.8	48.6	45.6	45.1
47.5°	575.1	504.4	364.6	240.9	154.1	101.4	71.7	55.3	47.6	44.6	44.3
50°	623.0	554.4	406.6	268.1	168.0	107.0	72.5	55.3	46.1	43.3	42.8
52.5°	666.0	597.6	445.3	292.7	182.3	114.2	74.5	54.8	44.8	41.7	41.5
55°	705.7	634.5	479.8	315.7	197.4	121.6	77.3	53.5	43.8	40.2	39.9
57.5°	744.9	665.2	504.2	335.7	210.7	128.3	79.1	52.7	42.5	38.2	37.6
60°	777.4	695.2	520.3	350.5	221.2	133.4	80.1	52.5	40.7	35.8	35.6
62.5°	795.8	712.3	531.6	360.8	227.9	136.5	80.9	51.7	38.7	33.8	32.8
65°	793.8	713.1	535.7	364.1	230.4	137.0	80.1	49.7	37.4	31.0	30.0
67.5°	769.9	695.4	527.2	360.0	227.1	134.2	77.6	46.3	35.1	27.7	27.4
70°	727.2	657.0	499.6	344.1	218.4	127.0	73.0	42.8	32.0	25.1	24.3
72.5°	659.1	597.4	456.3	319.6	201.3	116.5	67.1	39.2	28.7	23.6	22.3
75°	577.4	521.3	397.4	281.9	179.5	103.2	59.4	35.1	24.8	21.8	20.7
77.5°	477.0	433.2	329.8	235.8	151.3	88.8	50.7	30.2	20.7	19.7	19.5
80°	365.9	327.7	253.5	183.6	119.6	70.9	41.5	25.9	17.2	16.9	17.4
82.5°	246.3	223.0	171.8	129.3	86.5	51.2	31.2	20.0	14.1	14.1	14.3
85°	135.5	122.6	100.1	71.4	51.0	32.3	21.0	14.6	11.3	11.0	11.3
87.5°	37.9	34.1	28.9	22.3	18.7	13.1	10.5	9.0	7.9	7.9	7.9
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)