

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: P553647

Luminaire Tested: **ARB-B1-LED-D1-T4-8030**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553647
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-T4-8030
Description: ARBOR OUTDOOR ARCHITECTURAL POST TOP
80 CRI, 3000K LEDS AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2011 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

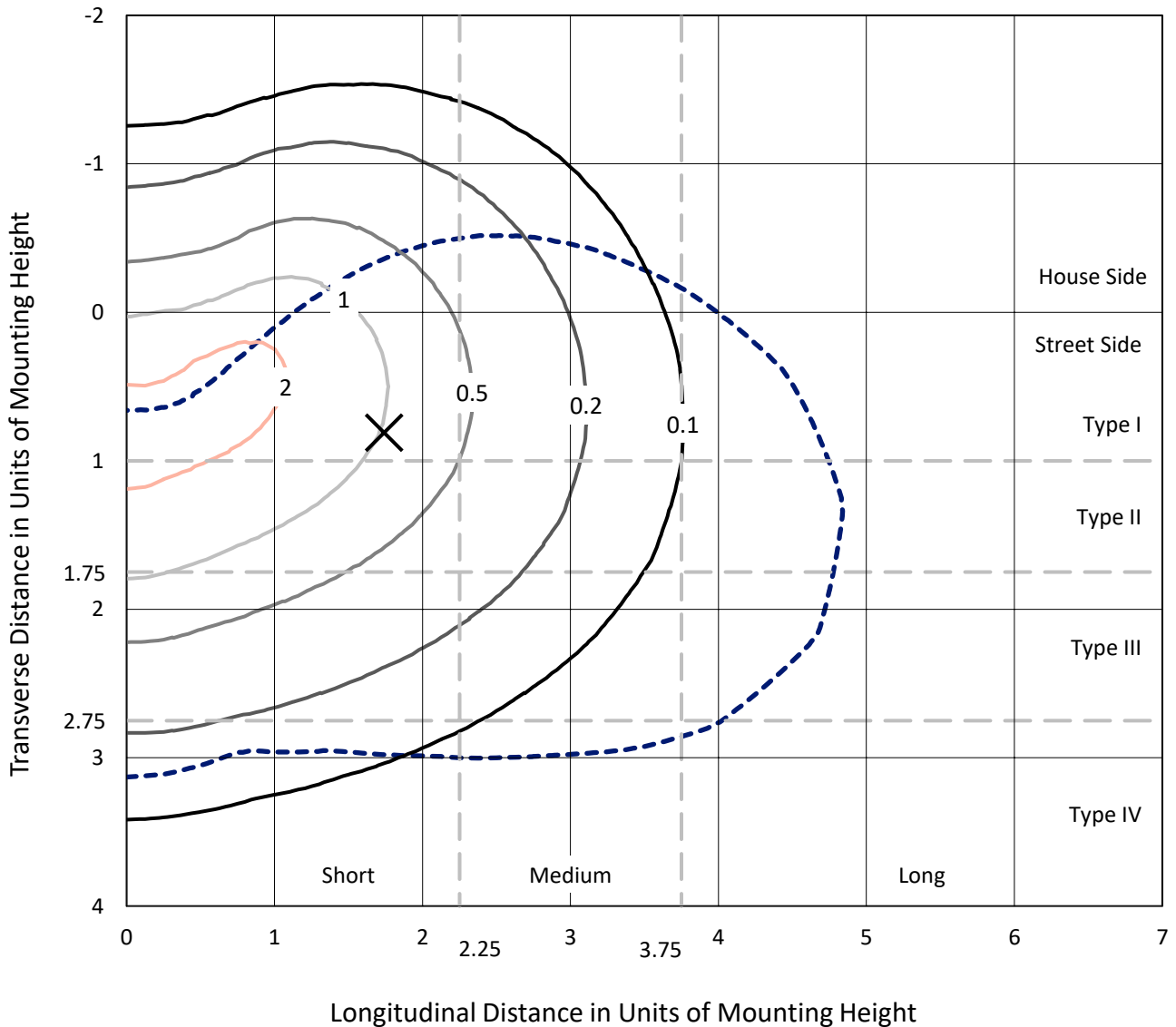
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

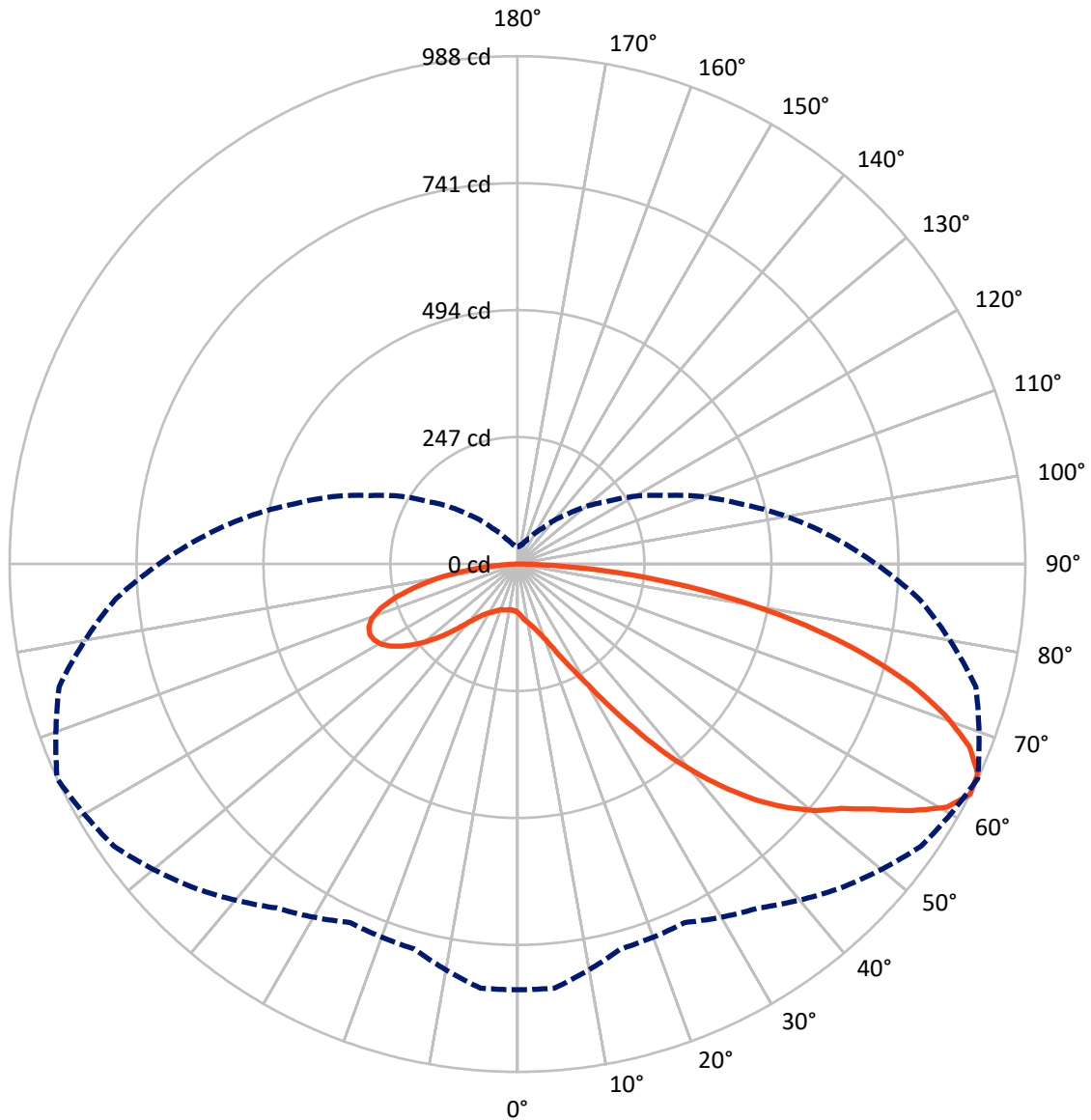
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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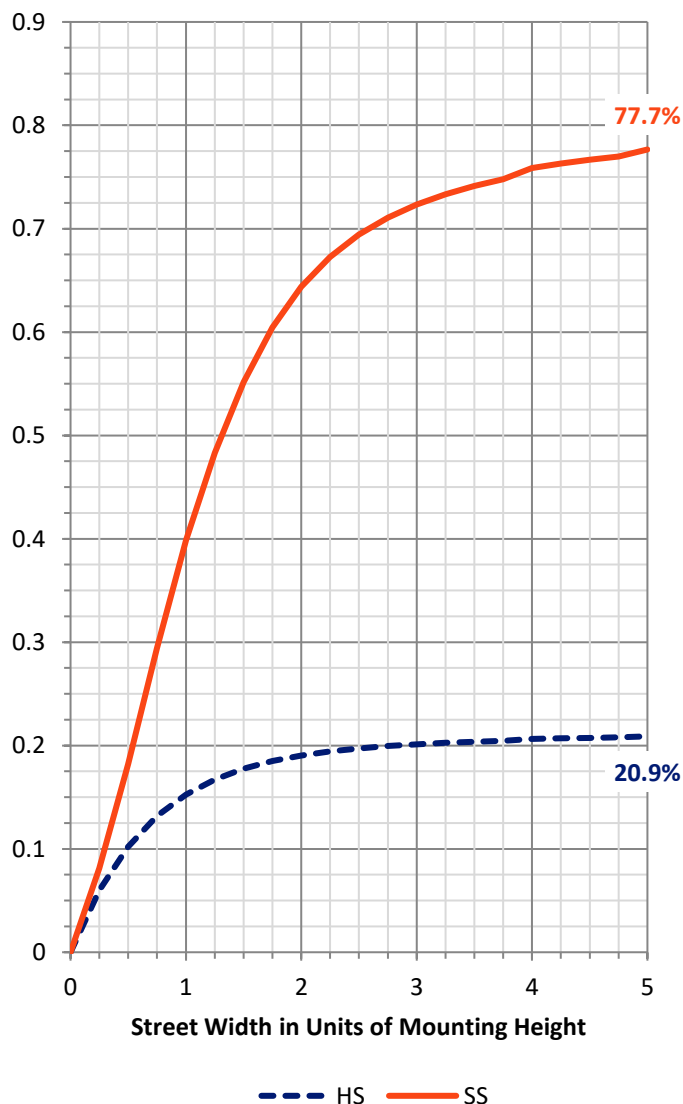
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	425.1	0.0	425.1
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	1585.9	0.0	1585.9
	% Fixture	78.9	0.0	78.9
Total	Lumens	2011.0	0.0	2011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	0.5
10°-20°	31.9	1.6
20°-30°	72.0	3.6
30°-40°	170.7	8.5
40°-50°	305.5	15.2
50°-60°	445.2	22.1
60°-70°	507.3	25.2
70°-80°	365.6	18.2
80°-90°	103.2	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°	2011.0	100.0
0°-180°	2011.0	100.0

Coefficient of Utilization



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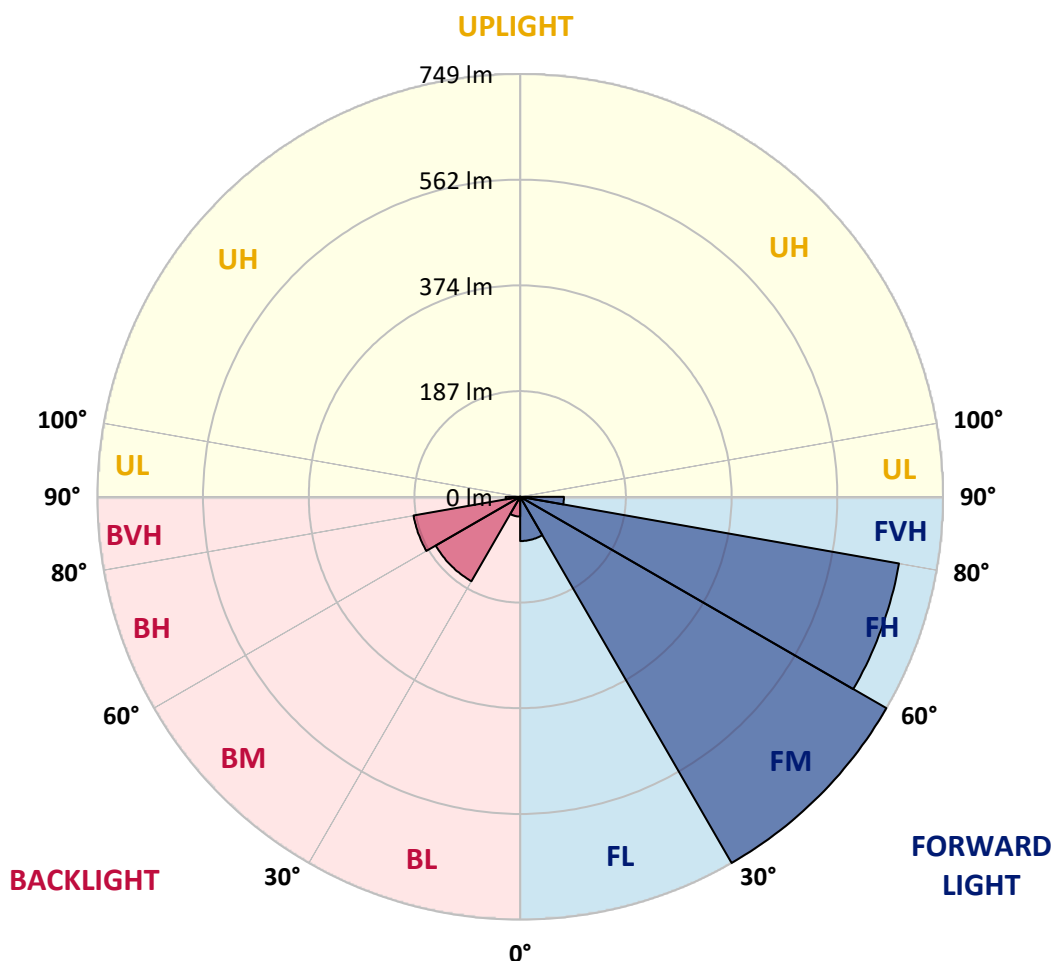
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	78.3	3.9			
FM (30°-60°)	748.9	37.2			
FH (60°-80°)	681.2	33.9			G1/1800
FVH (80°-90°)	77.5	3.9			G1/100
BL (0°-30°)	35.0	1.7	B0/110		
BM (30°-60°)	172.7	8.6	B0/220		
BH (60°-80°)	191.7	9.5	B1/500		G1/500
BVH (80°-90°)	25.7	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°	75°	85°	90°
0°	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
2.5°	105.3	104.4	104.4	104.1	103.2	102.1	100.7	98.8	97.7	95.8	94.9
5°	114.5	114.5	114.1	113.4	112.0	110.2	107.6	105.1	102.3	99.0	97.7
7.5°	123.3	123.3	122.9	121.3	119.6	117.6	114.3	110.8	106.9	102.5	100.4
10°	133.1	132.6	131.4	129.6	127.3	124.3	120.8	116.6	112.0	106.7	103.9
12.5°	141.2	141.2	140.7	138.8	135.8	131.9	128.0	123.1	118.0	111.3	108.1
15°	150.2	150.0	150.0	148.6	146.0	141.9	136.8	131.9	125.4	116.6	112.9
17.5°	167.3	166.6	164.8	160.8	158.1	154.8	150.0	143.0	134.7	123.6	118.5
20°	190.2	191.4	185.6	178.9	173.3	170.5	166.2	157.1	145.1	129.6	123.1
22.5°	226.1	224.5	214.5	207.1	197.9	192.5	189.1	176.8	160.4	141.2	132.6
25°	262.7	261.5	251.1	240.9	230.7	225.6	218.5	203.9	179.6	156.0	144.2
27.5°	298.1	298.3	290.4	280.9	274.0	268.7	255.5	236.0	203.4	173.3	159.4
30°	355.9	361.2	346.0	339.9	336.7	331.4	313.1	274.5	235.3	195.8	177.7
32.5°	465.1	462.4	440.8	416.3	409.1	400.8	377.2	330.9	279.1	225.6	202.0
35°	582.5	575.1	536.4	501.5	481.3	467.4	446.2	394.3	331.1	267.3	236.3
37.5°	630.6	628.3	603.3	576.0	553.8	536.4	516.3	467.2	395.2	315.2	274.2
40°	669.5	668.8	648.9	626.7	615.6	596.1	575.1	533.4	462.1	368.4	323.0
42.5°	695.4	695.6	677.8	660.7	658.1	646.1	631.5	596.8	522.8	421.9	370.0
45°	716.4	716.7	689.4	682.2	689.1	689.8	681.7	656.5	582.9	482.5	421.9
47.5°	734.0	733.1	698.2	689.4	707.7	726.6	723.6	708.3	642.6	536.4	472.5
50°	742.4	739.8	702.3	694.7	716.7	746.3	754.2	753.7	696.5	584.3	520.7
52.5°	777.1	769.4	727.1	719.9	739.4	775.2	788.9	789.3	746.5	630.6	563.9
55°	898.8	896.3	823.6	786.1	796.1	835.4	845.8	841.2	797.2	673.6	604.4
57.5°	910.1	906.2	852.1	823.1	841.6	884.9	909.7	904.6	851.8	718.1	636.4
60°	881.2	873.8	824.1	810.6	845.1	903.2	950.6	959.9	893.0	760.2	675.3
62.5°	828.0	827.8	775.2	769.4	816.6	890.2	957.6	987.7	922.9	784.9	697.2
65°	756.9	754.9	710.2	715.8	769.4	852.1	933.5	983.5	929.6	789.1	703.0
67.5°	641.2	647.0	625.3	654.0	708.6	797.7	887.5	947.9	905.3	770.1	689.4
70°	555.8	561.6	547.7	579.5	639.2	728.5	826.6	883.3	850.0	729.6	654.9
72.5°	486.4	484.1	473.0	505.9	562.6	646.3	742.8	800.7	771.5	666.0	599.6
75°	411.2	406.8	395.9	423.9	481.6	555.2	639.4	694.5	670.2	586.2	525.8
77.5°	332.8	329.8	318.9	340.4	385.3	459.6	535.7	573.4	558.2	486.2	436.2
80°	259.2	252.9	241.1	257.6	295.3	351.7	409.4	440.1	424.2	370.3	333.0
82.5°	171.2	176.8	171.7	172.4	206.2	247.6	292.7	304.1	296.2	254.1	230.5
85°	101.6	99.0	95.3	96.3	113.9	142.8	165.5	172.9	165.7	139.5	128.4
87.5°	21.8	22.9	23.8	21.3	29.4	38.9	43.7	44.7	45.4	39.1	34.5
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°	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
2.5°	94.2	92.8	91.6	90.5	89.6	89.1	88.6	88.4	88.2	88.4
5°	96.3	93.5	90.9	88.6	86.8	85.4	84.0	83.3	82.6	82.6
7.5°	98.3	94.2	90.2	86.8	83.8	81.0	79.1	78.0	77.1	77.1
10°	100.9	95.6	90.2	85.4	81.2	78.0	75.0	73.4	72.2	72.0
12.5°	104.6	97.7	91.2	85.2	79.8	75.4	72.0	69.4	68.0	67.8
15°	108.8	100.2	92.1	85.2	78.7	72.7	68.5	65.5	63.9	63.4
17.5°	112.9	102.7	93.5	84.9	77.1	70.3	65.5	62.0	60.4	59.9
20°	117.1	105.1	94.0	84.0	75.2	68.0	62.5	59.0	56.9	56.9
22.5°	124.7	109.9	97.0	84.7	74.7	66.6	60.2	56.5	54.6	54.1
25°	134.9	116.2	100.4	86.1	74.5	65.3	58.3	54.1	52.3	51.8
27.5°	146.9	123.6	104.4	87.7	74.5	64.1	56.7	52.3	50.0	50.0
30°	161.8	132.4	108.5	89.6	74.3	62.9	55.1	50.4	48.4	48.1
32.5°	180.7	144.2	113.6	91.2	74.3	62.0	53.7	48.8	46.5	46.3
35°	206.9	158.1	121.0	94.2	74.7	61.8	53.0	47.7	45.1	44.9
37.5°	238.8	177.7	131.2	100.0	77.1	62.5	53.0	47.2	44.7	44.4
40°	276.8	202.0	144.6	107.1	81.5	64.6	54.1	47.9	44.9	44.7
42.5°	320.5	228.9	163.4	118.3	87.9	67.3	54.8	47.9	44.9	44.4
45°	364.7	262.2	185.4	129.6	93.0	69.7	54.6	47.4	44.4	44.0
47.5°	409.4	297.4	208.5	142.8	98.6	71.7	55.1	47.0	43.5	43.0
50°	454.0	330.9	231.6	157.4	105.8	73.1	55.8	45.8	42.6	41.9
52.5°	495.0	366.8	253.9	171.7	113.6	76.6	56.0	44.7	41.4	41.0
55°	529.5	396.2	274.9	187.4	122.4	80.3	55.8	44.2	40.0	39.6
57.5°	562.3	419.8	293.2	198.5	128.7	82.4	56.2	43.3	38.4	38.0
60°	593.1	437.8	307.1	207.1	133.3	84.2	56.0	41.9	36.3	36.3
62.5°	613.2	450.1	315.2	211.3	136.1	84.7	55.3	40.3	34.2	33.6
65°	618.3	456.3	318.2	212.2	135.6	83.3	52.8	38.6	31.5	30.5
67.5°	605.1	450.8	314.0	208.0	131.7	79.6	49.1	35.9	27.8	27.5
70°	575.5	431.3	302.0	198.5	124.5	74.7	44.7	32.4	25.0	24.1
72.5°	528.8	397.1	279.8	184.0	113.9	68.5	40.7	28.7	22.9	22.0
75°	464.4	351.5	247.4	163.4	100.7	60.4	36.6	24.8	21.1	20.4
77.5°	386.9	292.3	207.1	138.4	85.4	51.8	31.7	20.6	19.0	19.0
80°	294.1	230.3	162.4	108.3	67.3	41.2	26.1	17.1	16.4	16.7
82.5°	201.1	157.4	112.9	75.9	48.6	31.0	19.9	13.9	13.7	13.7
85°	109.2	89.1	64.1	45.1	28.9	20.1	13.7	10.6	10.6	10.6
87.5°	33.8	27.3	19.0	14.3	11.8	9.5	8.1	7.2	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)