

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: P180118

Luminaire Tested: **ICS-E01-LED-E1-5WQ**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180118  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICS-E01-LED-E1-5WQ  
Description: ICON SITE SMALL LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2865.4 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G1

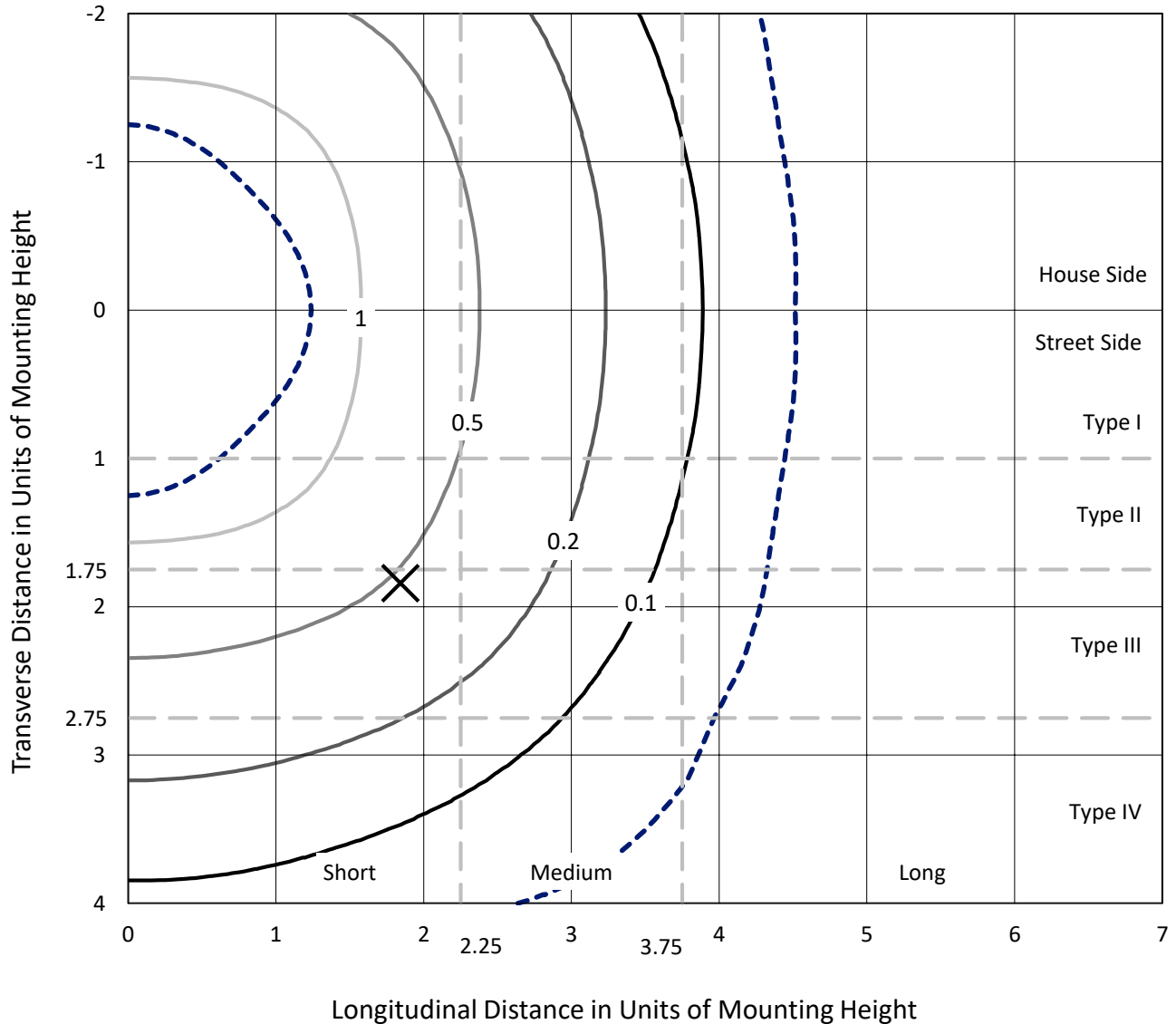
Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

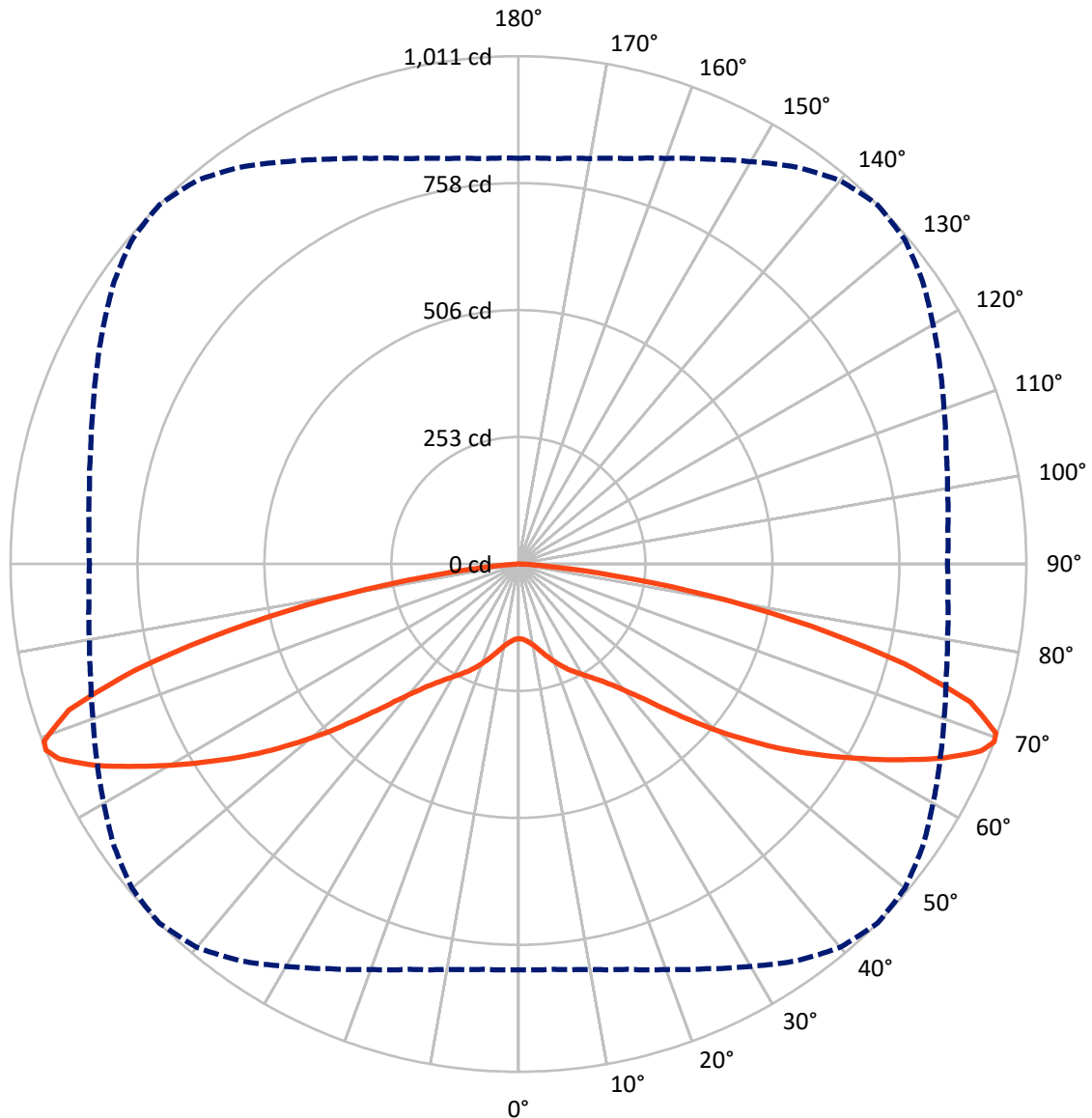
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.7 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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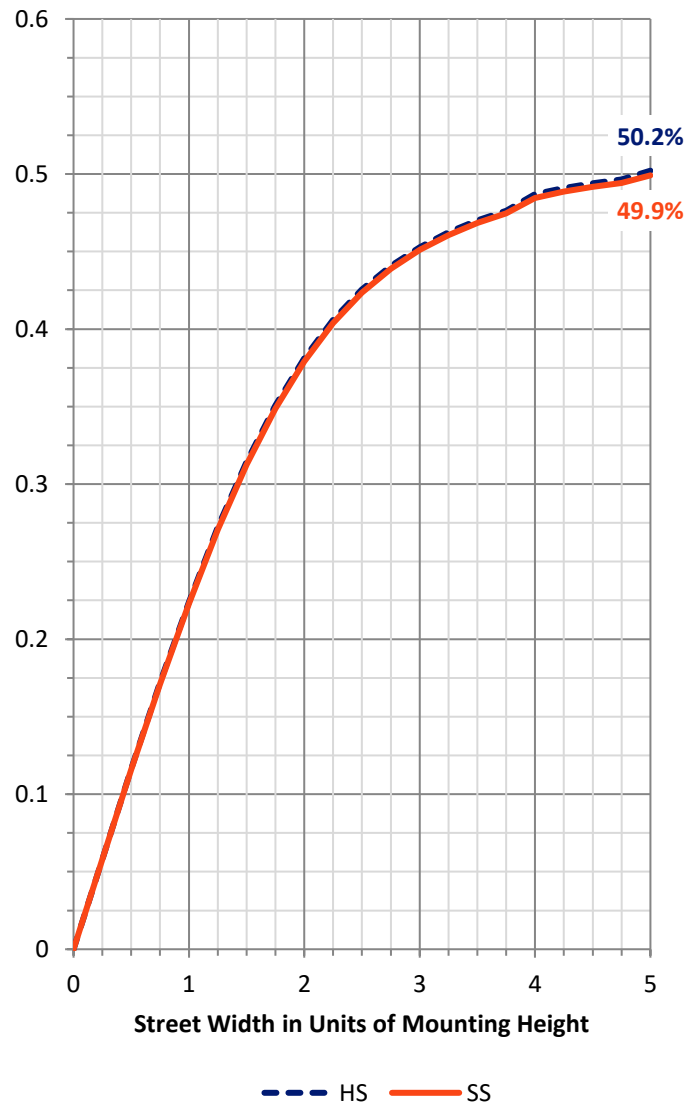
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1432.7	0.0	1432.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1432.7	0.0	1432.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2865.4	0.0	2865.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.9	0.5
10°-20°	52.8	1.8
20°-30°	106.8	3.7
30°-40°	179.1	6.3
40°-50°	315.9	11.0
50°-60°	557.2	19.4
60°-70°	850.6	29.7
70°-80°	710.8	24.8
80°-90°	77.2	2.7
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°	2865.4	100.0
0°-180°	2865.4	100.0



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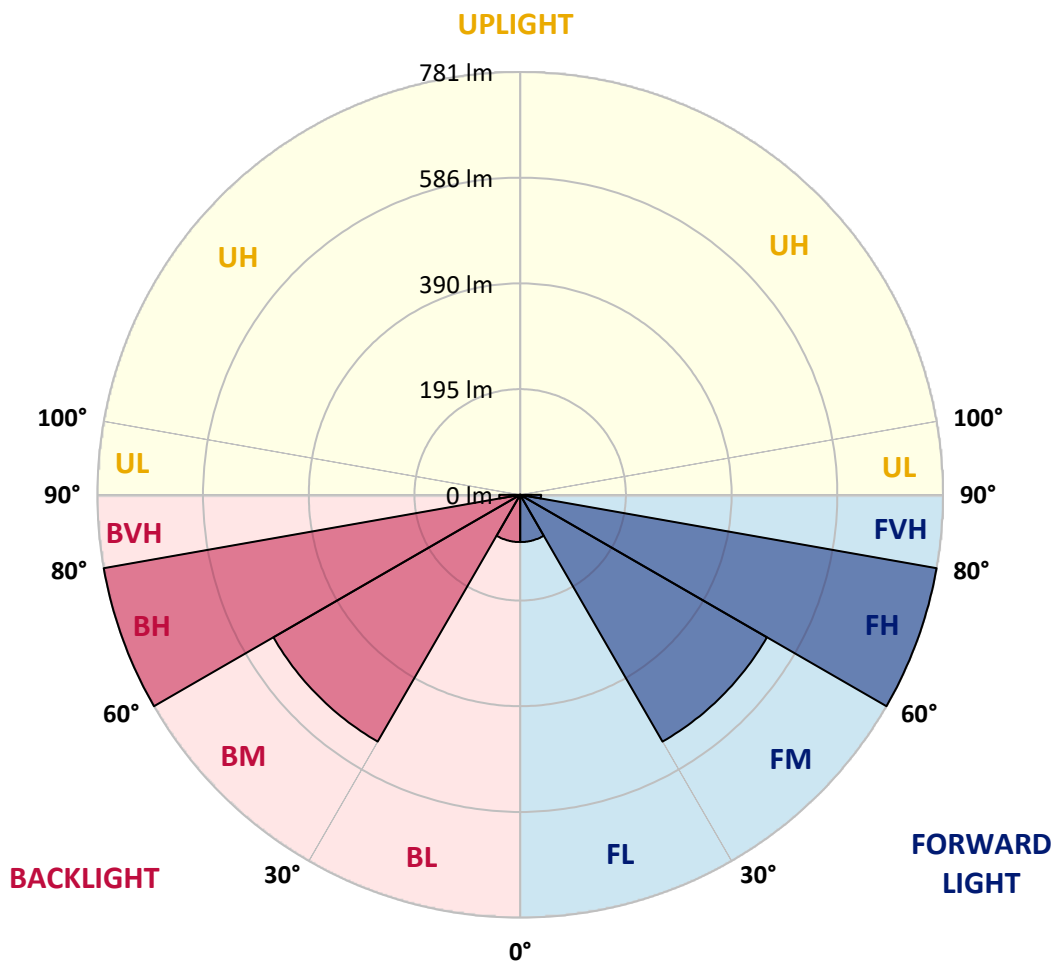
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	87.3	3.0			
FM (30°-60°)	526.1	18.4			
FH (60°-80°)	780.7	27.2			G1/1800
FVH (80°-90°)	38.6	1.3			G1/100
BL (0°-30°)	87.3	3.0	B0/110		
BM (30°-60°)	526.1	18.4	B1/1000		
BH (60°-80°)	780.7	27.2	B2/1000		G1/1800
BVH (80°-90°)	38.6	1.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8
2.5°	150.0	150.3	150.0	150.0	150.0	150.0	150.0	149.7	149.7	149.7	150.0
5°	153.0	153.3	153.0	153.3	153.3	153.3	153.3	153.0	153.0	153.0	153.0
7.5°	157.8	157.8	157.8	158.1	157.8	157.8	158.1	157.8	157.8	157.8	157.8
10°	164.7	164.4	164.4	164.4	164.4	164.4	164.7	164.7	164.7	164.4	164.4
12.5°	173.1	172.8	173.1	173.1	173.4	173.4	173.4	173.4	173.4	173.4	173.1
15°	183.3	183.3	183.3	183.6	184.2	184.2	183.9	184.2	184.2	184.2	184.2
17.5°	194.7	195.3	194.7	195.0	195.3	195.0	195.6	195.9	196.2	195.9	195.0
20°	206.4	206.7	206.7	206.7	206.7	207.3	207.6	207.6	208.5	208.2	207.9
22.5°	217.5	218.1	218.1	218.4	218.4	219.3	219.3	219.3	219.9	220.5	219.9
25°	229.2	228.9	228.9	229.5	229.8	231.0	231.0	231.6	232.5	232.8	232.2
27.5°	239.7	239.4	239.4	240.3	240.6	242.1	242.1	243.3	243.9	244.2	243.6
30°	250.8	250.8	250.5	251.4	252.3	253.5	254.1	255.3	256.2	256.5	255.9
32.5°	264.0	263.4	263.7	264.3	264.9	266.1	267.0	268.5	269.7	270.0	269.4
35°	279.0	278.1	278.4	279.0	279.9	281.7	283.2	284.1	285.9	286.5	285.3
37.5°	295.5	295.8	295.5	297.0	298.5	300.6	302.4	303.6	305.4	306.3	305.4
40°	318.9	318.0	318.9	320.4	322.8	325.5	329.1	330.0	331.8	333.6	331.5
42.5°	349.2	348.6	350.7	351.9	354.6	357.6	362.1	364.5	367.2	368.4	366.6
45°	388.8	388.8	391.2	391.5	395.7	399.6	405.9	408.9	414.0	414.0	414.0
47.5°	432.6	434.4	435.9	438.9	441.9	449.1	455.4	462.0	466.8	467.4	466.5
50°	477.9	479.7	484.2	488.4	495.0	504.0	510.9	519.6	523.8	527.4	526.2
52.5°	528.0	528.3	533.7	539.1	548.7	558.6	569.7	578.7	586.2	589.5	586.8
55°	582.9	583.5	588.3	594.0	604.8	616.2	630.0	639.3	648.9	654.9	650.4
57.5°	642.3	642.6	647.4	654.3	667.2	678.6	691.8	705.0	714.0	719.4	716.4
60°	708.0	709.5	713.1	721.8	734.1	746.1	759.3	771.0	781.5	787.2	784.2
62.5°	778.2	779.7	784.8	791.7	802.5	815.7	828.3	843.3	852.0	858.3	853.8
65°	825.3	828.0	836.1	845.4	861.3	878.4	893.1	913.5	924.1	931.6	927.4
67.5°	828.3	829.8	839.7	853.8	875.1	900.9	931.0	962.8	983.5	993.4	986.2
69°	807.9	810.0	819.6	835.5	859.2	889.2	925.0	964.6	996.4	1011.1	1004.2
70°	784.8	789.3	799.8	817.2	840.3	871.8	908.7	951.1	988.3	1008.4	1003.3
72.5°	736.2	737.4	744.3	758.1	775.8	801.9	836.7	876.6	912.0	940.9	945.1
75°	653.4	657.3	662.4	671.7	680.7	699.6	723.0	750.3	771.0	793.2	794.1
77.5°	493.8	505.5	509.4	511.5	515.4	530.4	550.8	574.5	591.6	595.2	594.6
80°	221.7	237.3	240.9	258.0	268.5	293.4	324.6	360.9	385.2	387.9	381.3
82.5°	43.5	46.5	54.3	67.8	92.4	107.1	127.5	153.0	176.4	189.9	181.8
85°	14.4	15.3	17.7	19.5	22.5	25.5	30.9	38.4	47.7	52.8	47.1
87.5°	5.7	5.7	6.6	7.2	7.8	7.8	7.8	7.2	6.9	5.7	5.1
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8
2.5°	149.7	149.7	149.7	149.7	149.7	149.7	149.7	149.7
5°	153.0	152.7	152.7	152.4	152.4	152.4	152.4	152.4
7.5°	157.5	157.2	156.9	157.2	156.9	156.9	156.9	156.9
10°	164.4	163.8	163.5	163.2	163.2	163.2	162.9	162.9
12.5°	172.5	172.5	172.2	171.9	171.3	171.6	171.3	170.7
15°	183.6	183.0	182.7	182.4	181.8	181.8	181.8	181.5
17.5°	194.7	194.1	194.1	193.2	192.9	192.9	192.9	193.2
20°	207.0	206.1	205.5	204.9	204.3	204.6	204.0	204.6
22.5°	219.3	218.1	217.5	216.6	215.7	215.7	215.4	214.8
25°	231.3	229.8	229.2	228.3	227.1	227.1	226.5	225.9
27.5°	242.7	241.2	240.6	238.8	237.6	237.3	236.7	236.4
30°	255.3	253.5	252.6	250.8	249.0	248.7	247.8	247.8
32.5°	268.5	266.7	266.1	263.4	261.9	261.9	261.3	260.7
35°	285.0	282.3	281.7	279.0	276.9	276.9	276.3	276.6
37.5°	304.5	302.4	300.3	298.2	295.8	295.5	294.9	294.3
40°	330.6	328.2	325.8	322.8	320.7	320.1	319.2	318.9
42.5°	365.4	363.0	358.2	355.8	353.7	351.9	351.6	351.3
45°	409.8	406.8	403.5	399.0	396.3	392.4	391.8	390.3
47.5°	463.2	457.5	451.8	447.9	443.7	439.2	438.3	435.9
50°	519.9	515.4	505.8	499.5	492.9	488.4	485.4	484.5
52.5°	580.8	572.4	562.8	554.4	544.8	538.8	533.4	531.9
55°	644.4	632.4	620.4	610.5	600.9	593.7	588.6	586.2
57.5°	708.0	694.8	681.6	670.8	662.7	653.4	648.3	647.1
60°	774.3	761.7	748.2	737.4	727.5	719.4	716.4	710.7
62.5°	844.5	831.3	818.7	808.2	795.6	789.9	784.8	781.5
65°	913.5	898.2	882.3	871.2	858.6	850.5	844.2	839.7
67.5°	967.0	943.9	922.6	903.9	886.8	874.2	866.1	861.9
69°	982.0	953.2	925.9	901.5	881.4	867.3	858.3	854.1
70°	980.2	948.4	918.3	891.6	869.7	854.7	846.0	838.2
72.5°	924.7	895.5	862.2	833.1	813.3	798.9	790.2	786.0
75°	789.0	769.5	745.5	723.0	708.6	700.2	689.4	689.7
77.5°	574.5	575.1	558.9	535.8	519.6	516.6	511.8	507.0
80°	356.4	327.9	309.3	284.4	266.1	250.2	243.3	228.3
82.5°	164.4	128.4	99.6	75.3	57.9	45.3	39.6	32.4
85°	36.6	27.9	23.1	18.6	15.9	14.7	12.0	11.1
87.5°	5.1	4.5	4.2	3.9	3.3	2.4	1.8	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)