

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: P180157

Luminaire Tested: **ICM-E01-LED-E1-5XQ-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180157  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-E01-LED-E1-5XQ-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (21) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2702.2 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G1

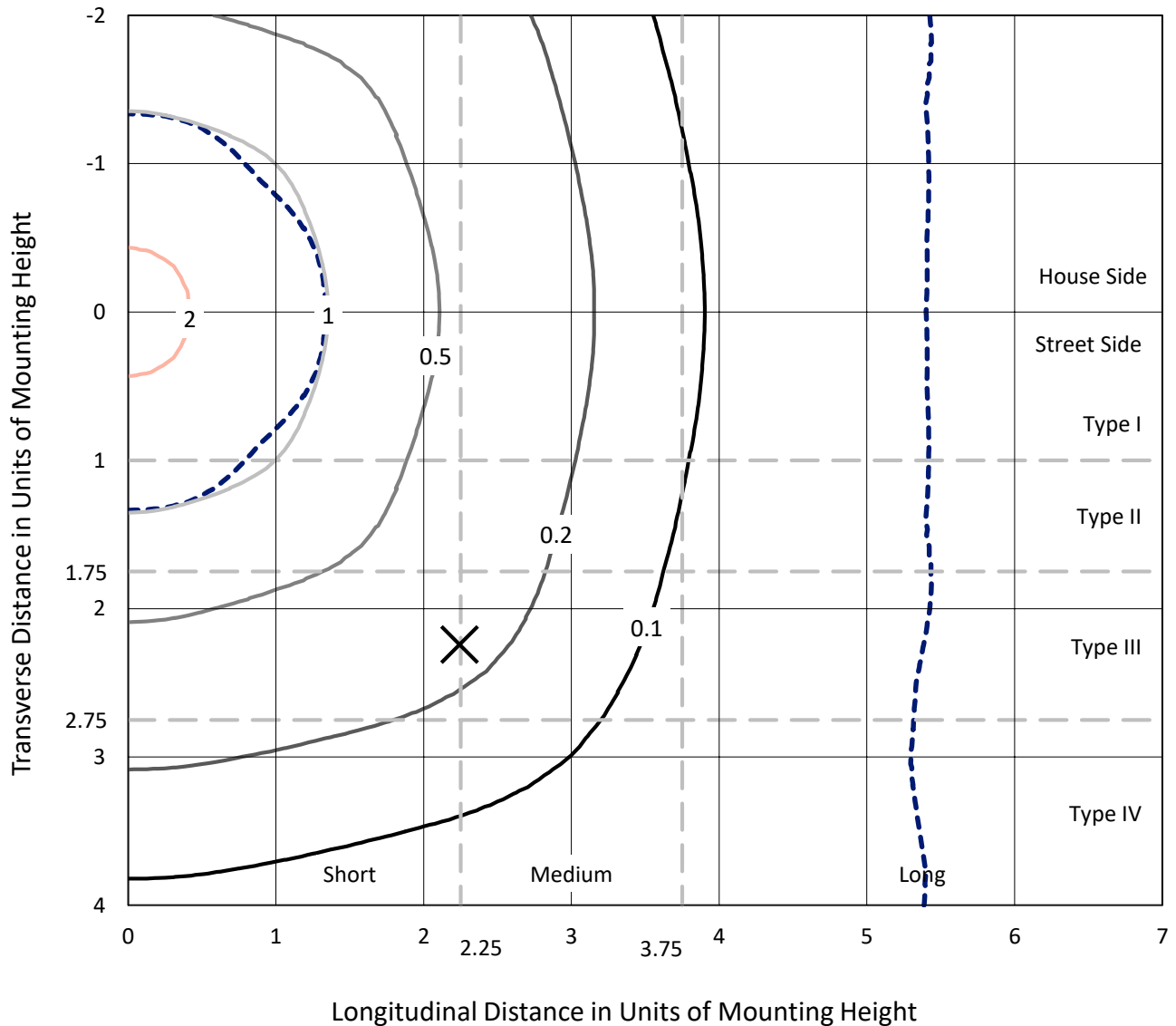
Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

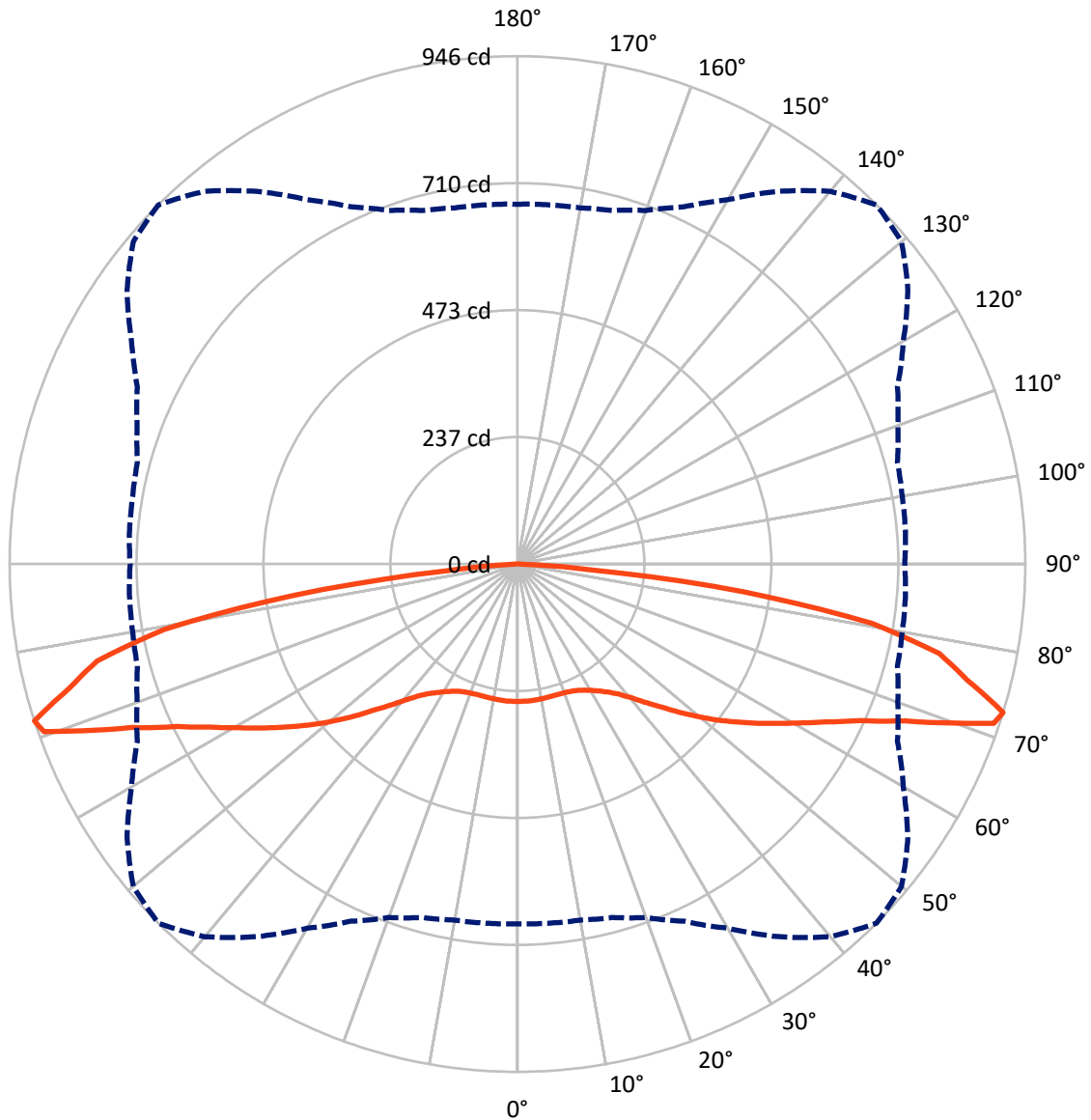
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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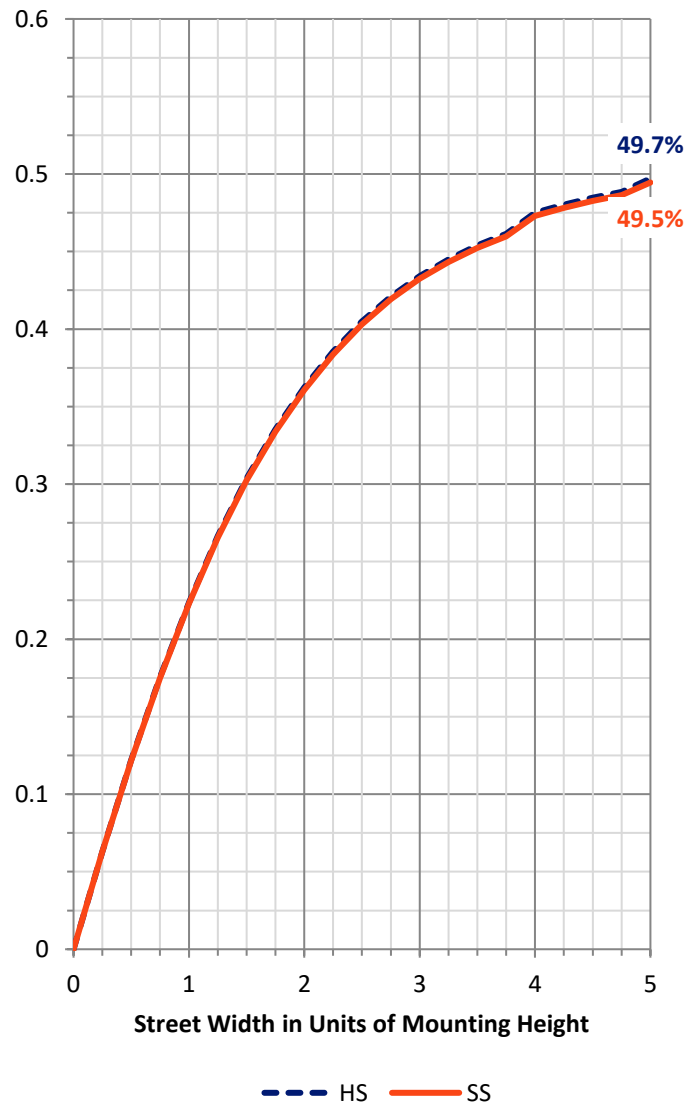
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1351.1	0.0	1351.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1351.1	0.0	1351.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2702.2	0.0	2702.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.4	0.9
10°-20°	72.2	2.7
20°-30°	120.9	4.5
30°-40°	184.3	6.8
40°-50°	294.2	10.9
50°-60°	452.4	16.7
60°-70°	658.7	24.4
70°-80°	742.0	27.5
80°-90°	153.2	5.7
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°	2702.2	100.0
0°-180°	2702.2	100.0



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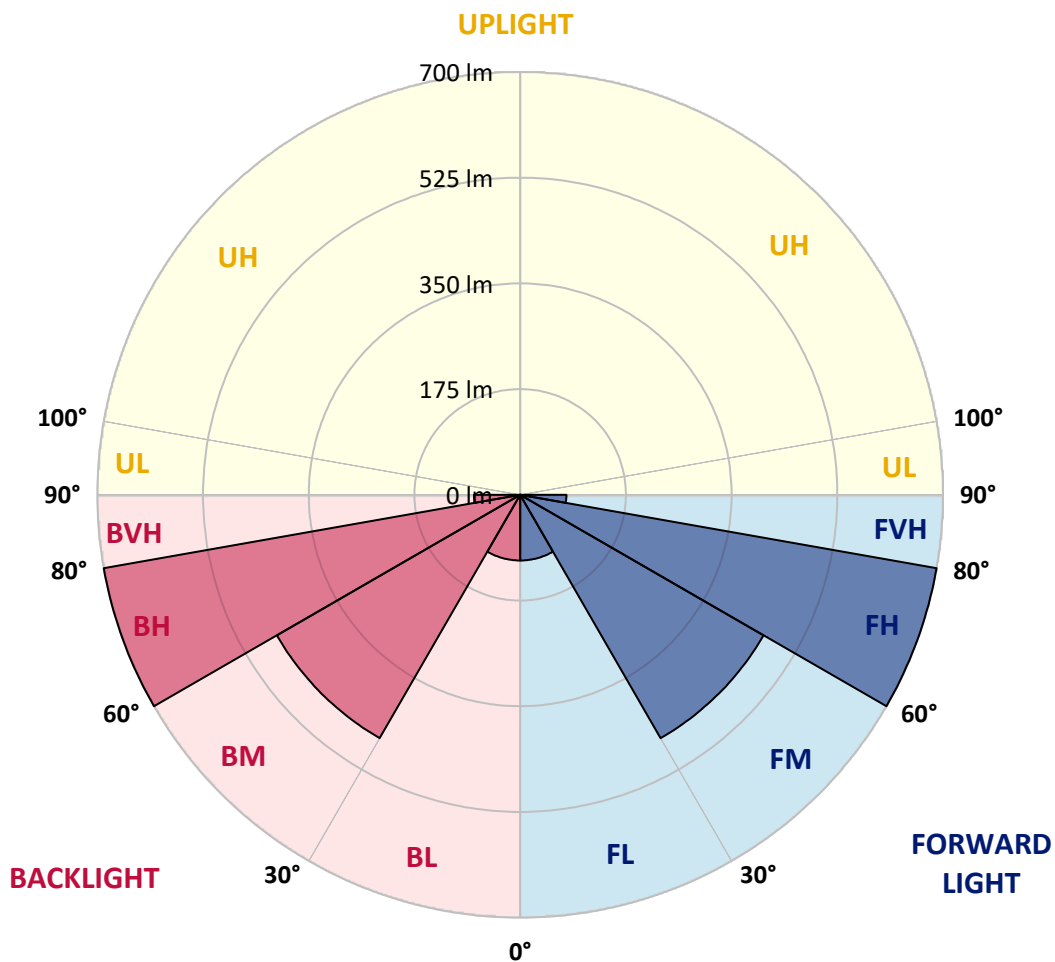
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	108.7	4.0			
FM	(30°-60°)	465.4	17.2			
FH	(60°-80°)	700.3	25.9			G1/1800
FVH	(80°-90°)	76.6	2.8			G1/100
BL	(0°-30°)	108.7	4.0	B0/110		
BM	(30°-60°)	465.4	17.2	B1/1000		
BH	(60°-80°)	700.3	25.9	B2/1000		G1/1800
BVH	(80°-90°)	76.6	2.8			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°	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0
2.5°	256.5	256.6	256.6	256.4	256.5	256.4	256.2	256.2	255.6	255.9	256.4
5°	256.4	256.3	256.2	256.2	256.2	256.4	256.2	256.0	255.8	256.0	255.8
7.5°	256.3	256.0	255.8	255.8	255.9	256.0	255.7	255.4	255.6	255.4	255.2
10°	255.9	255.6	255.7	255.4	255.5	255.4	255.2	255.0	255.1	254.9	254.5
12.5°	256.0	255.6	255.6	255.4	255.4	255.3	255.0	254.6	254.7	254.5	254.1
15°	256.0	255.8	255.7	255.4	255.4	255.3	254.8	254.7	254.7	254.5	254.0
17.5°	256.2	256.0	256.0	255.6	255.5	255.4	255.0	254.7	255.0	254.5	254.2
20°	256.6	256.5	256.6	256.4	256.0	256.0	255.6	255.5	255.6	255.5	254.7
22.5°	257.5	257.5	257.6	257.5	257.5	257.5	257.2	257.2	257.3	257.3	256.7
25°	259.8	259.7	259.9	259.9	259.9	260.5	260.3	260.2	260.6	260.6	259.9
27.5°	264.4	264.2	264.4	264.6	264.8	265.5	265.3	265.6	266.1	266.0	265.4
30°	269.6	269.5	269.8	270.2	270.5	271.5	271.1	272.2	272.7	273.1	272.7
32.5°	277.2	277.3	278.0	278.1	278.8	279.8	279.9	280.8	281.5	282.1	281.7
35°	287.4	287.4	287.8	288.3	289.1	290.0	290.4	291.5	292.5	293.0	292.1
37.5°	303.1	302.3	303.2	303.4	304.1	304.3	305.3	306.7	307.8	307.6	307.0
40°	324.1	324.0	323.6	323.3	324.2	324.6	324.6	326.5	328.2	327.9	327.8
42.5°	348.7	348.1	347.7	347.7	348.3	348.5	350.6	352.0	353.2	353.5	353.2
45°	375.3	374.6	374.8	374.5	374.7	375.6	376.8	379.5	381.8	381.8	380.7
47.5°	403.7	401.8	403.4	401.1	402.4	403.2	406.3	410.1	414.1	414.9	413.8
50°	432.6	432.4	432.3	431.8	432.5	434.0	438.0	443.9	447.7	450.2	448.6
52.5°	464.2	463.2	462.6	462.0	462.5	465.6	471.1	476.3	483.2	486.0	483.7
55°	494.9	494.5	492.7	492.7	494.0	498.8	504.7	511.1	518.6	521.9	520.9
57.5°	526.5	524.5	523.9	523.0	525.7	530.1	537.5	549.0	556.8	560.5	558.3
60°	557.4	555.8	554.6	554.3	556.2	562.4	572.8	586.8	596.4	601.2	597.8
62.5°	590.5	589.5	588.1	586.4	590.3	598.3	611.4	626.8	640.9	646.9	641.7
65°	631.7	629.7	628.1	626.1	629.2	639.3	655.6	677.4	696.3	703.3	699.5
67.5°	675.2	673.3	673.4	672.1	677.8	691.7	712.8	742.3	767.7	779.5	772.7
70°	713.1	714.2	714.5	719.6	729.4	750.7	785.8	832.0	870.5	888.6	881.0
71°	702.0	704.3	707.9	713.3	730.1	755.3	803.2	859.2	905.1	935.6	925.4
72.5°	670.2	671.6	673.5	681.7	700.7	734.0	783.4	847.4	906.3	946.0	934.1
75°	624.4	625.7	626.3	632.0	649.4	678.4	723.6	780.4	832.5	866.1	862.8
77.5°	555.2	555.3	560.3	569.1	588.6	621.8	669.4	728.3	777.2	803.4	786.8
80°	398.6	395.9	401.0	412.5	436.5	474.6	523.4	590.6	644.8	669.4	643.6
82.5°	151.6	159.8	172.8	191.6	199.8	242.1	287.6	327.2	372.8	424.0	411.2
85°	16.3	18.3	23.1	28.5	36.0	49.9	68.9	94.0	115.9	136.2	120.9
87.5°	6.1	6.2	6.9	8.0	8.2	8.5	9.1	10.5	9.9	8.5	6.9
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0
2.5°	256.0	256.1	256.0	256.1	256.1	255.8	255.8	255.7
5°	256.0	255.7	255.8	255.8	255.8	255.9	255.7	255.8
7.5°	255.6	255.2	255.4	255.4	255.2	255.4	255.3	255.2
10°	254.9	254.3	254.6	254.5	254.4	254.5	254.5	254.5
12.5°	254.2	254.0	254.0	254.0	253.9	254.0	254.0	254.0
15°	254.1	253.6	253.5	253.3	253.4	253.6	253.6	253.8
17.5°	254.0	253.2	253.2	253.0	253.1	253.4	253.5	253.4
20°	254.4	253.8	253.7	253.6	253.5	253.9	253.8	253.8
22.5°	256.4	255.6	255.6	255.1	254.8	255.1	254.9	254.9
25°	259.5	258.7	258.4	257.7	257.1	257.0	256.8	256.7
27.5°	265.3	264.0	263.7	263.1	262.3	262.5	262.0	262.0
30°	272.0	270.8	269.8	268.9	268.0	267.6	267.2	267.1
32.5°	280.7	279.4	278.1	277.0	275.8	275.3	274.4	274.0
35°	291.4	289.7	288.2	287.4	286.1	285.6	285.0	285.6
37.5°	306.3	304.2	303.5	302.6	301.8	300.7	301.0	300.7
40°	327.0	325.1	324.4	322.8	322.6	321.4	322.1	321.5
42.5°	352.6	349.1	348.7	347.4	347.0	346.3	346.6	346.0
45°	380.4	377.3	376.7	374.7	374.8	373.3	373.8	373.9
47.5°	411.6	408.5	405.9	404.4	403.8	402.9	403.4	403.4
50°	443.9	439.6	436.7	433.9	432.6	432.9	431.9	433.6
52.5°	478.6	472.2	468.1	465.3	462.9	463.4	463.5	464.0
55°	514.5	506.3	500.4	496.7	494.6	494.7	495.4	495.9
57.5°	550.6	540.4	532.3	526.9	525.5	526.1	526.1	526.0
60°	588.1	575.7	565.4	559.3	558.0	557.7	560.4	559.4
62.5°	628.3	613.5	602.8	595.0	593.1	594.4	596.8	596.3
65°	681.7	661.2	647.3	639.5	636.5	637.7	641.0	640.9
67.5°	750.3	721.8	703.4	693.5	691.3	692.8	694.7	696.4
70°	853.2	812.3	786.1	764.7	755.5	753.7	755.5	755.5
71°	889.3	842.4	800.7	774.5	759.4	753.0	753.5	750.3
72.5°	887.8	830.0	781.2	753.9	732.8	727.8	725.3	721.5
75°	828.0	775.9	733.6	703.7	683.5	677.5	673.1	672.9
77.5°	750.9	712.5	665.9	634.2	609.6	599.6	595.2	595.0
80°	603.6	546.1	512.0	492.9	463.3	454.7	445.6	442.2
82.5°	365.0	285.2	232.0	206.1	191.8	158.0	141.8	134.1
85°	85.0	60.4	41.6	27.3	19.7	15.6	12.0	10.6
87.5°	5.8	4.6	4.1	3.3	2.5	2.4	1.5	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)