

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: P140578

Luminaire Tested: **ECM-E01-LED-E1-5XQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140578  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33688)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ECM-E01-LED-E1-5XQ-8030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2516.4 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G1

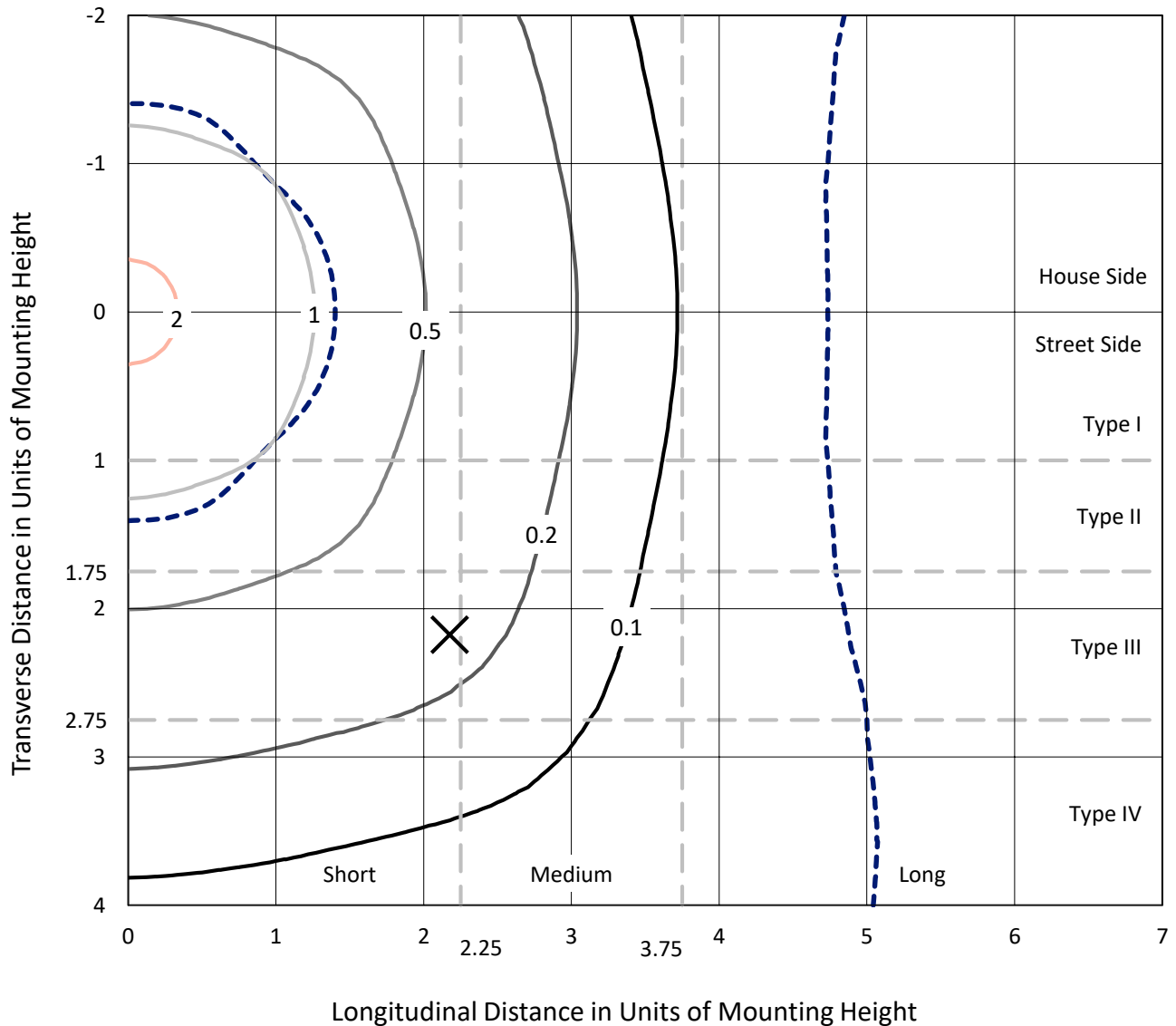
Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P140578  
 CATALOG NUMBER: ECM-E01-LED-E1-5XQ-8030

### Iso-Footcandle Lines of Horizontal Illumination

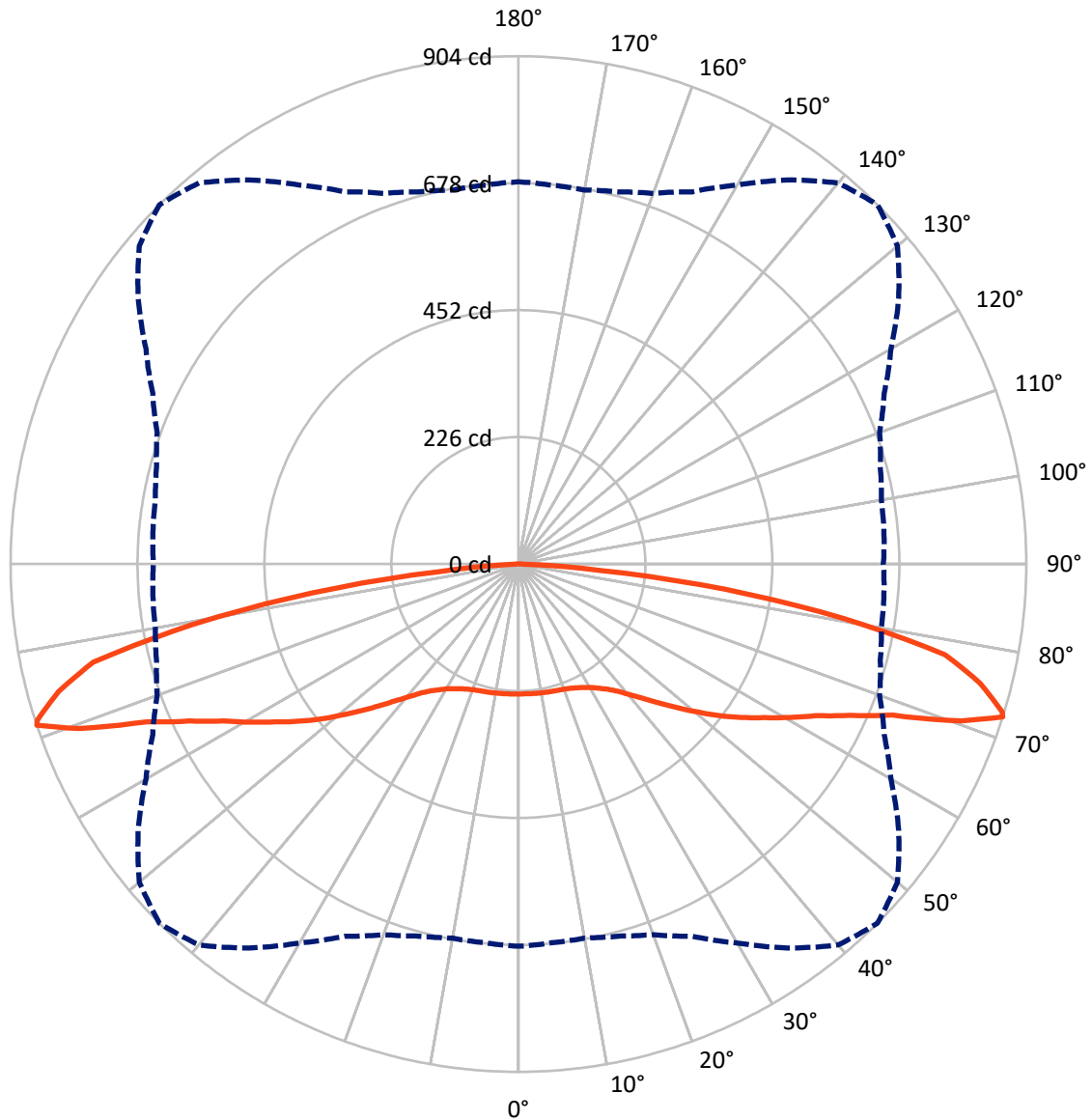
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P140578  
CATALOG NUMBER: ECM-E01-LED-E1-5XQ-8030

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P140578

CATALOG NUMBER: ECM-E01-LED-E1-5XQ-8030

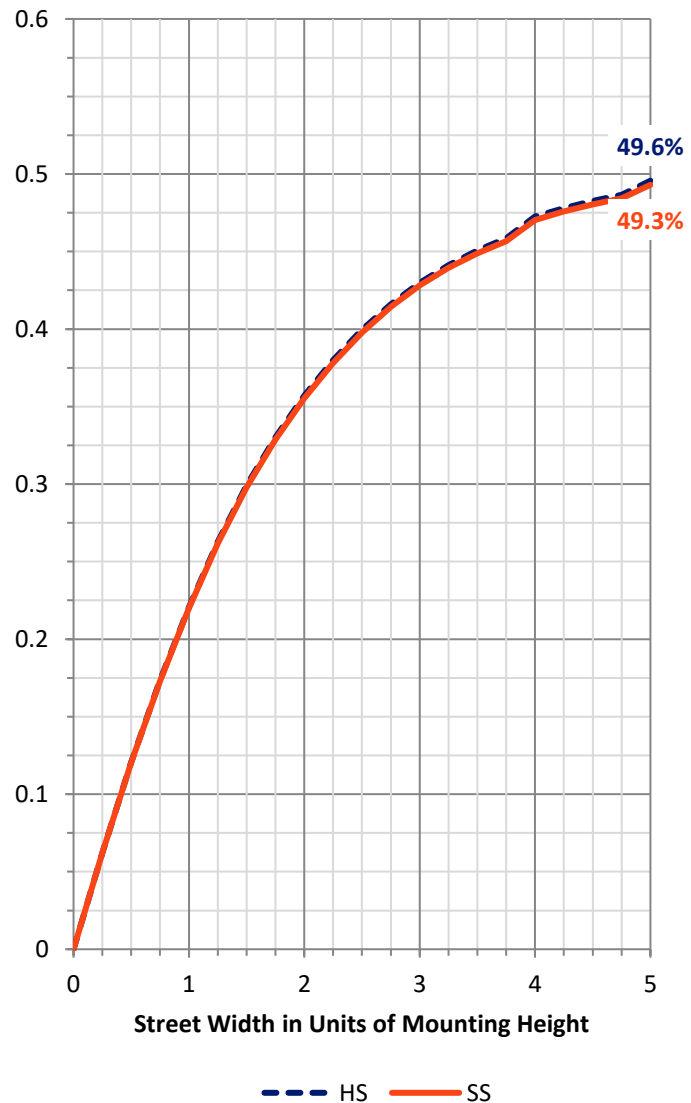
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1258.2	0.0	1258.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1258.2	0.0	1258.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2516.4	0.0	2516.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.2	0.9
10°-20°	66.8	2.7
20°-30°	113.0	4.5
30°-40°	171.9	6.8
40°-50°	272.1	10.8
50°-60°	417.0	16.6
60°-70°	612.1	24.3
70°-80°	694.4	27.6
80°-90°	147.1	5.8
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°	2516.4	100.0
0°-180°	2516.4	100.0



REPORT NUMBER: P140578

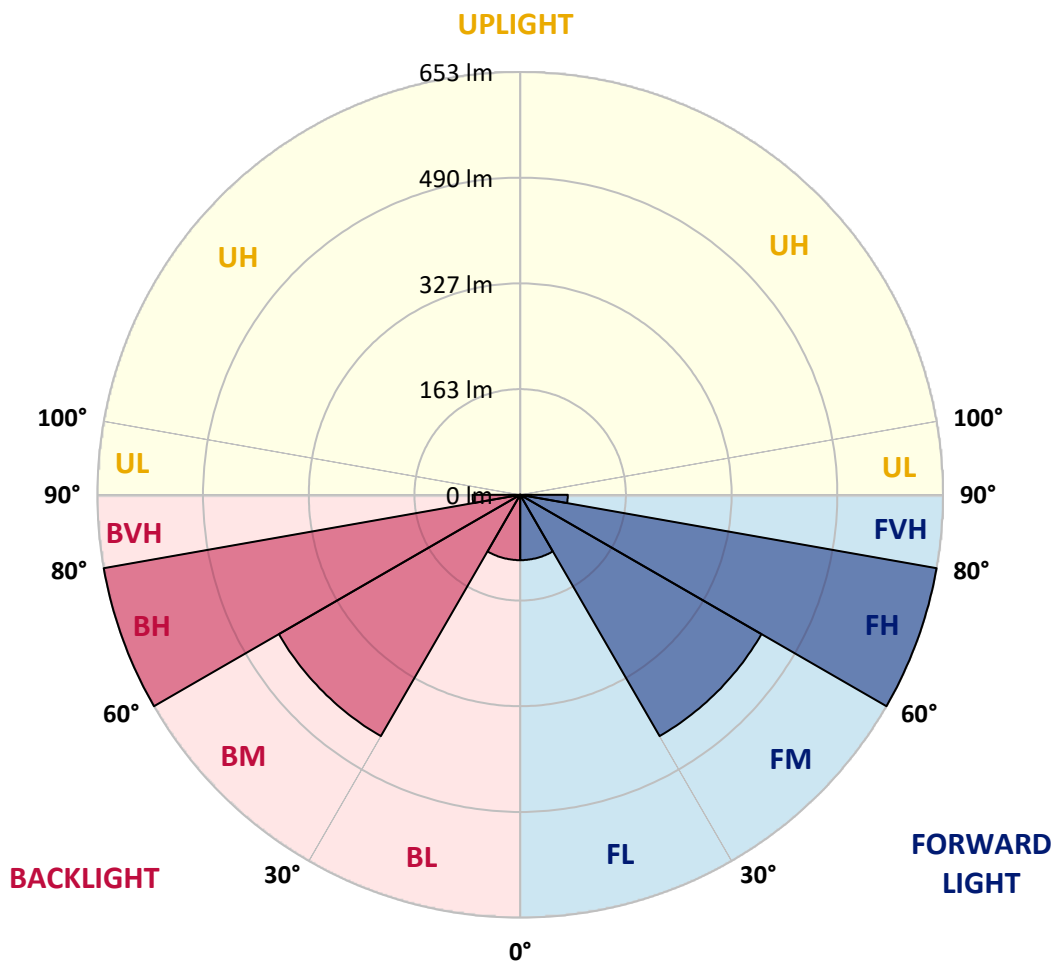
CATALOG NUMBER: ECM-E01-LED-E1-5XQ-8030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	100.9	4.0			
FM (30°-60°)	430.4	17.1			
FH (60°-80°)	653.3	26.0			G0/660
FVH (80°-90°)	73.6	2.9			G1/100
BL (0°-30°)	100.9	4.0	B0/110		
BM (30°-60°)	430.4	17.1	B1/1000		
BH (60°-80°)	653.3	26.0	B2/1000		G0/660
BVH (80°-90°)	73.6	2.9			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





REPORT NUMBER: P140578

CATALOG NUMBER: ECM-E01-LED-E1-5XQ-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3
2.5°	232.1	232.4	232.1	231.8	231.8	231.5	231.5	231.5	231.8	231.3	231.3
5°	232.7	232.9	232.7	232.1	232.1	232.1	231.8	231.8	232.1	231.8	231.8
7.5°	233.5	233.8	233.5	232.9	232.9	232.7	232.4	232.4	232.9	232.4	232.4
10°	234.3	234.9	234.3	233.8	233.8	233.5	233.2	233.2	233.5	232.9	232.9
12.5°	235.8	235.8	235.5	235.2	235.2	234.9	234.6	234.3	234.1	233.8	233.5
15°	236.9	237.2	236.6	236.3	236.0	235.8	235.5	235.5	234.9	234.6	234.6
17.5°	238.3	238.6	238.0	237.4	237.4	236.9	236.6	236.6	236.0	235.8	235.5
20°	239.7	240.0	239.4	239.1	238.8	238.6	238.0	238.3	238.0	237.4	237.4
22.5°	241.4	241.4	241.1	240.8	240.8	240.5	240.3	240.8	240.3	240.3	240.0
25°	243.1	243.4	243.1	243.1	243.4	243.4	243.6	244.2	244.2	243.9	243.6
27.5°	246.7	246.7	246.7	246.7	247.6	247.6	247.9	248.7	249.0	249.0	249.0
30°	251.5	251.8	251.5	251.5	252.4	252.6	253.5	254.3	254.9	254.9	255.2
32.5°	258.5	258.3	258.5	259.1	259.7	260.2	261.1	262.5	263.3	263.6	263.6
35°	267.5	267.8	267.5	267.8	269.0	269.8	270.6	272.3	272.9	273.5	273.7
37.5°	280.8	281.6	281.0	281.0	282.5	283.0	284.1	285.6	286.7	287.2	287.0
40°	299.9	299.6	299.1	299.3	299.6	300.2	301.3	304.1	305.5	305.5	305.5
42.5°	321.8	322.1	321.3	321.0	321.3	321.8	323.5	325.8	328.0	327.5	327.7
45°	346.9	344.9	345.5	344.9	345.2	347.2	350.0	351.1	353.4	353.4	353.9
47.5°	371.4	370.5	370.2	369.9	370.8	372.8	376.1	379.8	381.8	382.9	383.7
50°	398.9	397.5	397.2	397.5	397.8	398.4	404.8	408.5	413.3	414.1	413.8
52.5°	425.7	424.5	424.0	424.0	425.1	427.1	433.8	439.7	445.1	448.4	447.0
55°	454.6	454.6	452.9	452.4	454.1	456.0	465.3	472.1	479.7	482.2	478.3
57.5°	484.5	484.2	481.6	480.8	482.2	487.3	495.1	505.6	513.7	516.0	513.7
60°	513.7	513.7	512.3	511.7	513.1	519.3	528.9	540.4	550.3	554.5	550.8
62.5°	547.2	547.2	543.5	545.2	547.2	552.0	564.1	579.0	592.2	594.5	591.1
65°	585.2	586.9	584.0	583.5	586.0	595.0	608.8	627.6	643.1	649.0	644.0
67.5°	643.1	640.6	637.2	635.8	639.7	648.2	665.1	689.8	712.6	718.2	712.3
70°	703.3	700.8	699.7	704.2	712.6	730.3	756.2	790.8	822.6	836.1	823.7
72°	680.3	676.9	676.0	685.6	701.9	730.9	778.7	834.4	885.1	903.9	880.6
72.5°	668.4	665.6	665.3	674.3	692.1	721.3	768.3	825.7	880.0	900.5	875.5
75°	620.6	617.8	620.6	630.7	648.5	680.0	727.8	781.5	830.5	849.3	824.9
77.5°	554.5	549.4	552.0	566.0	585.7	620.1	670.7	734.3	781.5	776.5	740.2
80°	442.5	431.3	443.4	447.6	470.1	493.2	542.1	570.5	586.9	587.7	561.8
82.5°	193.3	197.8	213.0	225.6	241.7	268.4	288.1	318.7	354.5	371.1	351.1
85°	12.7	15.8	25.0	29.8	41.4	50.4	72.3	105.2	126.9	145.2	122.4
87.5°	2.3	3.1	5.6	6.8	7.3	8.2	8.2	11.3	11.8	9.6	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P140578

CATALOG NUMBER: ECM-E01-LED-E1-5XQ-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	231.3	231.3	231.3	231.3	231.3	231.3	231.3	231.3
2.5°	231.3	231.3	231.5	231.3	231.3	231.3	231.0	231.0
5°	231.5	231.5	231.8	231.8	231.5	231.5	231.5	231.5
7.5°	232.4	232.1	232.4	232.4	232.1	232.1	231.8	232.1
10°	232.7	232.7	232.9	232.9	232.7	232.7	232.7	232.7
12.5°	233.5	233.5	233.5	233.8	233.5	233.5	233.8	233.5
15°	234.3	234.1	234.1	234.1	234.1	234.3	234.3	234.6
17.5°	235.2	235.2	234.9	235.2	235.2	235.5	235.5	235.5
20°	236.9	236.6	236.0	236.6	236.6	236.6	236.6	236.9
22.5°	239.4	238.8	238.3	238.3	238.0	238.3	238.0	238.0
25°	243.1	242.2	241.4	241.1	240.8	240.5	240.3	240.5
27.5°	248.4	247.3	246.2	245.6	245.3	244.8	244.5	244.5
30°	254.3	253.5	251.8	251.2	250.4	249.5	249.5	249.3
32.5°	263.3	262.2	260.2	259.4	258.0	257.1	256.9	256.9
35°	272.6	271.2	270.4	269.2	267.5	266.7	266.4	266.4
37.5°	286.7	285.0	283.9	282.5	282.2	281.0	281.0	281.0
40°	305.0	303.6	302.1	301.0	300.2	299.3	298.2	298.2
42.5°	327.5	325.2	324.4	323.0	321.8	321.0	320.4	320.4
45°	352.2	350.3	349.1	347.2	346.9	346.3	345.2	345.2
47.5°	380.1	377.3	375.0	374.5	373.0	371.6	371.1	371.4
50°	410.5	405.7	402.6	402.6	400.9	398.9	399.2	398.9
52.5°	441.7	436.3	432.4	429.6	427.6	427.3	427.6	427.3
55°	473.2	467.6	462.8	459.7	457.7	455.8	455.5	455.5
57.5°	505.8	498.8	491.2	488.4	486.4	485.3	485.3	485.6
60°	542.7	531.2	521.6	517.9	516.5	517.1	516.8	517.1
62.5°	580.1	566.9	555.6	551.4	549.4	549.2	551.4	552.3
65°	627.4	611.0	598.4	590.5	590.5	589.7	592.2	591.1
67.5°	689.0	665.9	650.4	637.8	638.1	638.9	642.6	642.3
70°	793.9	753.1	724.4	702.8	694.3	688.7	687.6	687.6
72°	826.3	765.5	718.2	684.2	666.8	656.1	653.0	649.6
72.5°	817.8	755.4	707.5	672.1	654.1	643.4	638.6	634.4
75°	764.7	694.9	642.8	605.7	585.7	572.8	570.3	568.3
77.5°	674.6	612.7	559.0	520.5	500.5	483.9	477.1	476.6
80°	520.2	464.5	423.1	393.0	375.0	362.6	363.2	359.3
82.5°	306.9	259.9	224.5	184.3	157.8	142.6	133.1	131.9
85°	90.3	61.3	39.1	28.1	20.3	15.2	11.3	10.1
87.5°	8.2	6.5	5.3	4.5	4.2	3.7	2.3	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)