

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: P180156

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180156
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-8030
Description: ICON SITE MEDIUM 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: 2497 lumens
Efficiency: N/A
Efficacy: 101.1 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

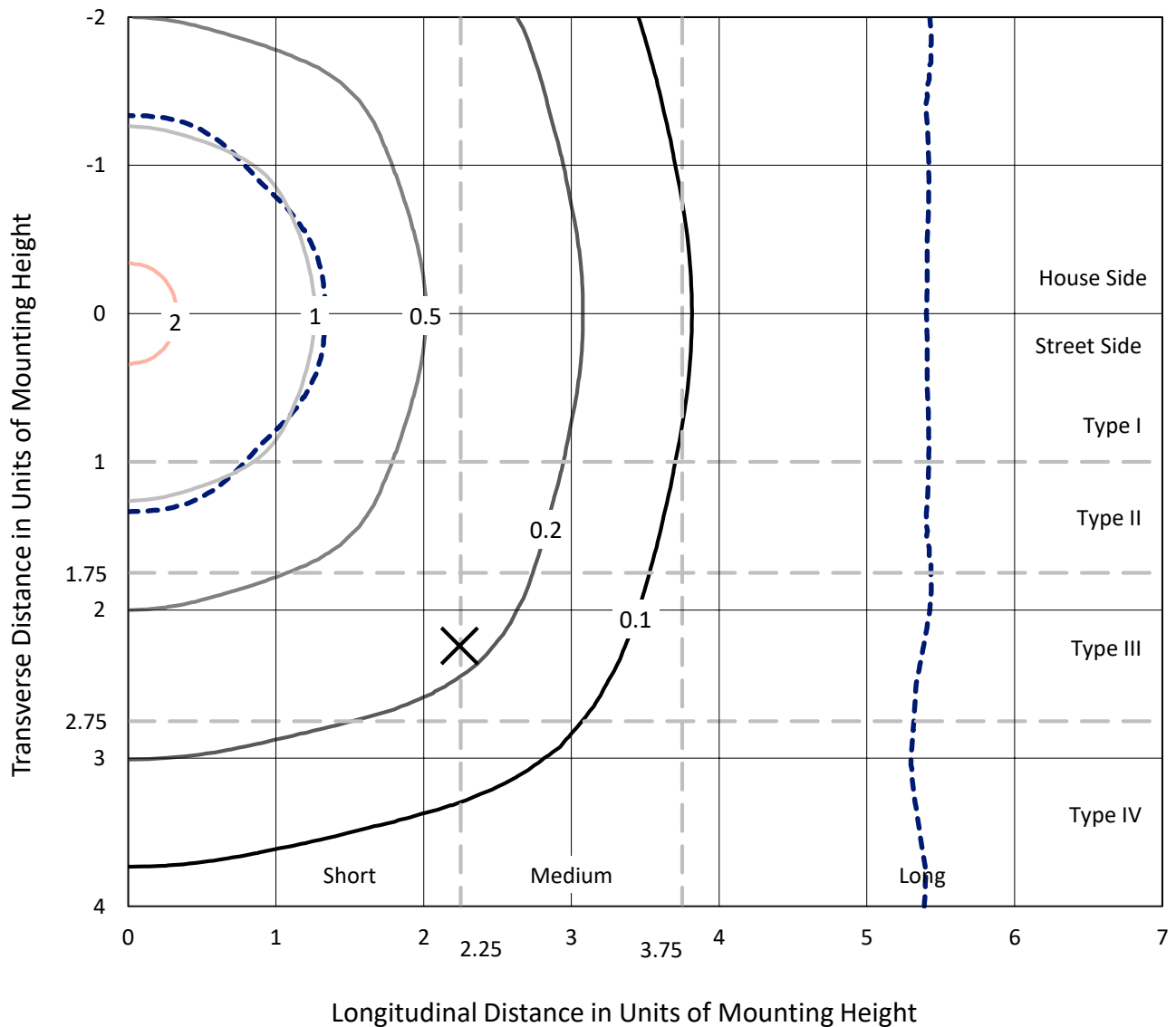
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

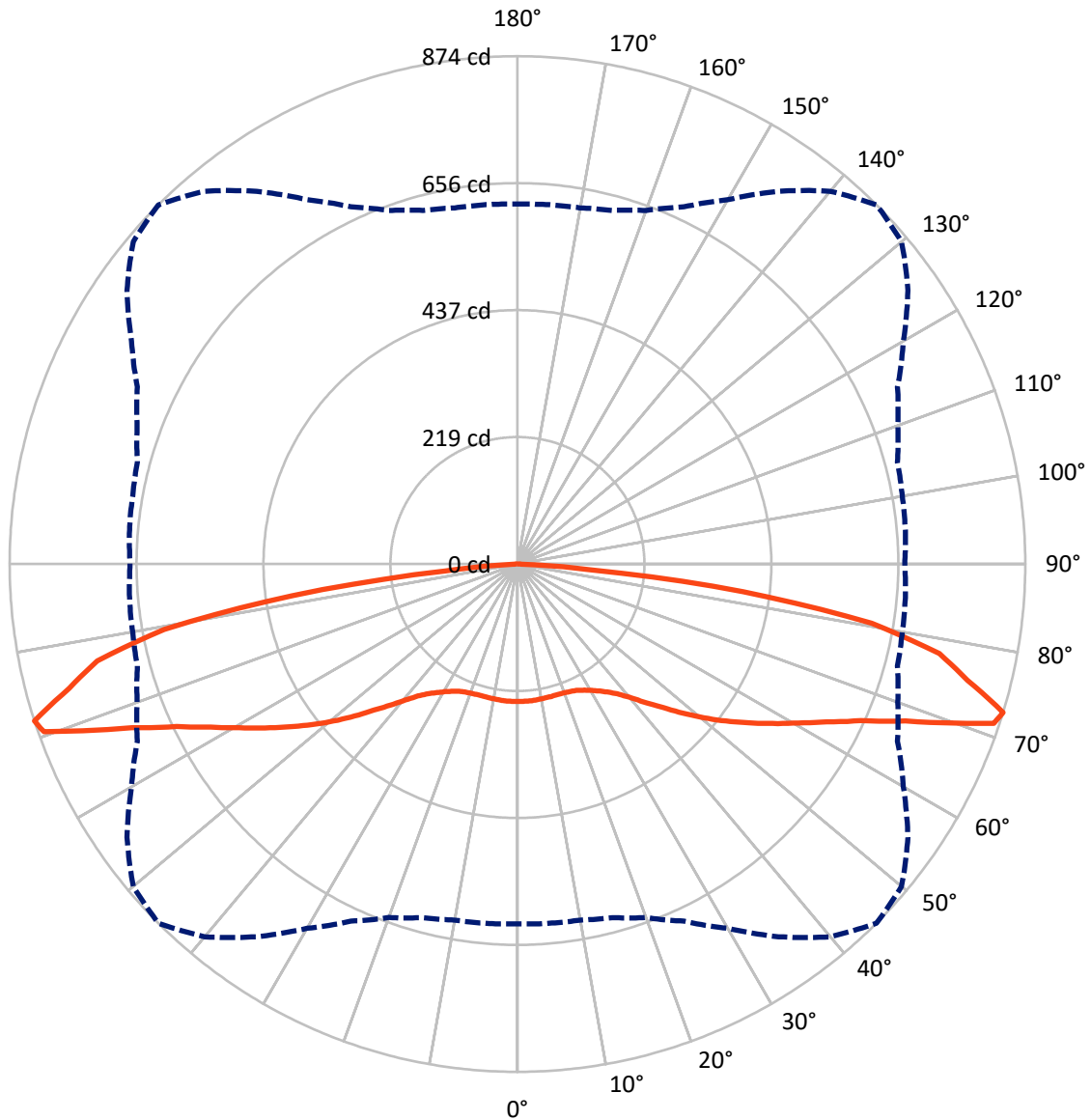
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.4 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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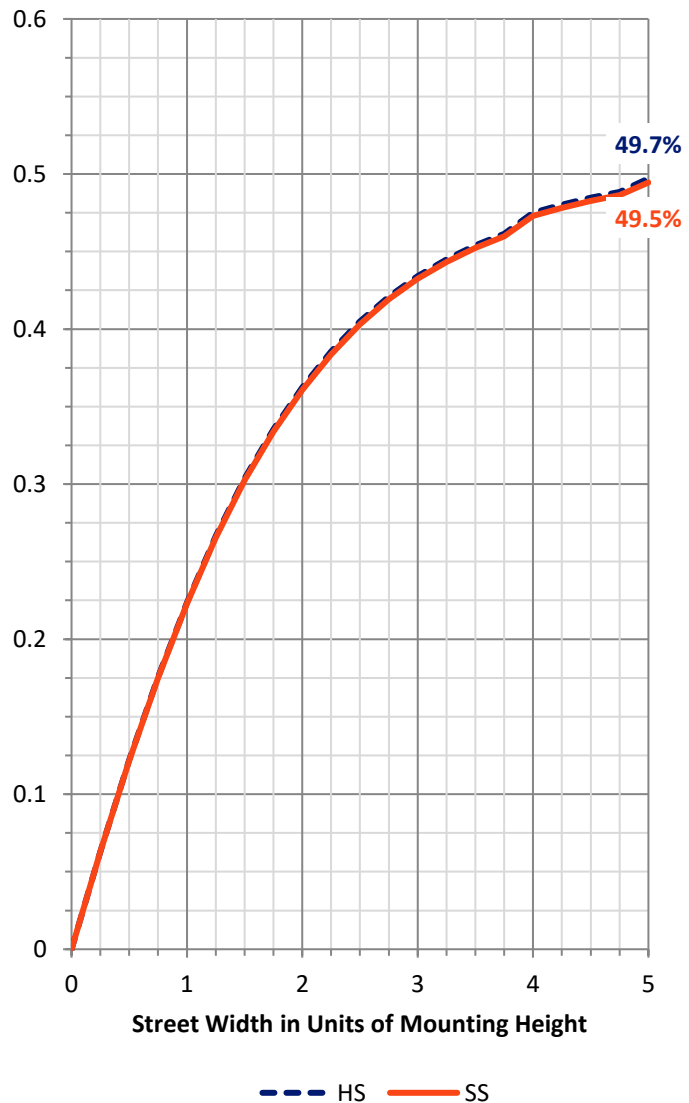
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1248.5	0.0	1248.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1248.5	0.0	1248.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2497.0	0.0	2497.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.5	0.9
10°-20°	66.7	2.7
20°-30°	111.7	4.5
30°-40°	170.3	6.8
40°-50°	271.9	10.9
50°-60°	418.0	16.7
60°-70°	608.7	24.4
70°-80°	685.7	27.5
80°-90°	141.5	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°	2497.0	100.0
0°-180°	2497.0	100.0



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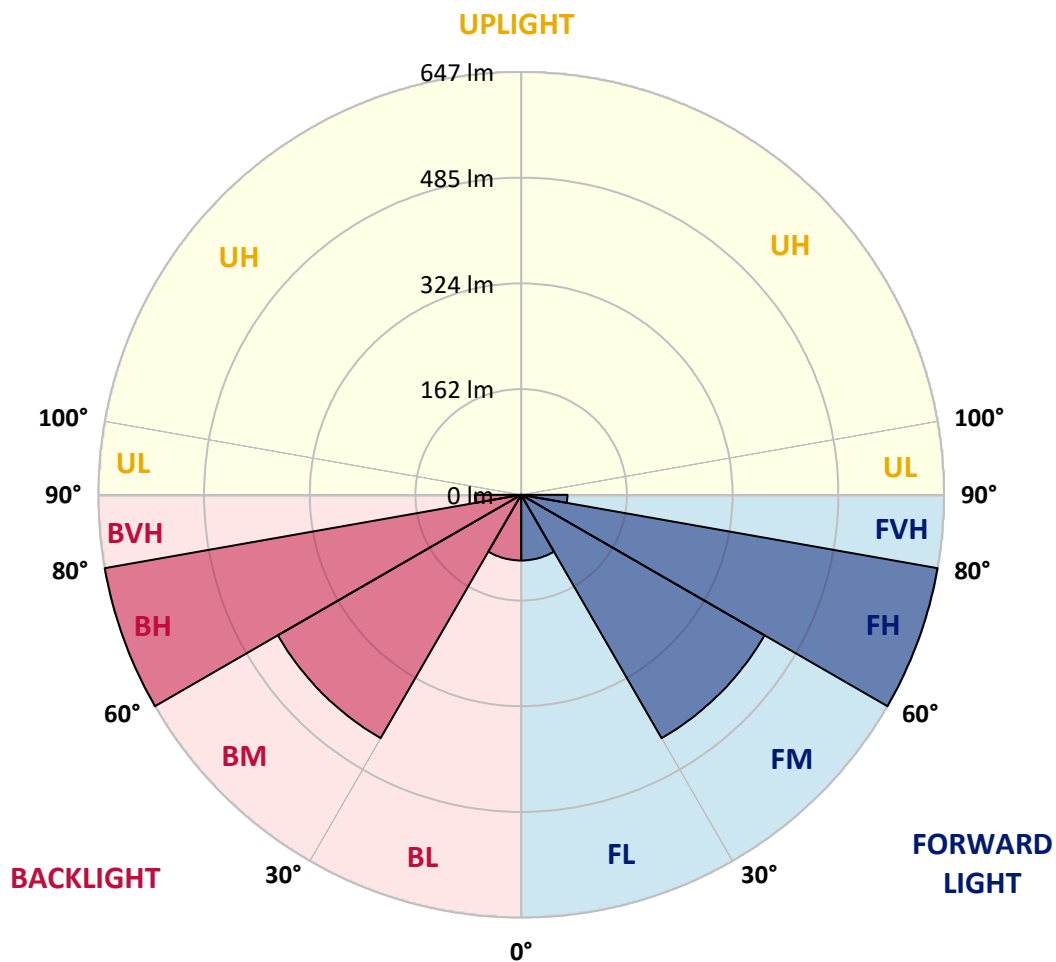
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	100.5	4.0			
FM (30°-60°)	430.1	17.2			
FH (60°-80°)	647.2	25.9			G0/660
FVH (80°-90°)	70.8	2.8			G1/100
BL (0°-30°)	100.5	4.0	B0/110		
BM (30°-60°)	430.1	17.2	B1/1000		
BH (60°-80°)	647.2	25.9	B2/1000		G0/660
BVH (80°-90°)	70.8	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°	236.6	236.6	236.6	236.6	236.6	236.6	236.6	236.6	236.6	236.6	236.6
2.5°	237.0	237.1	237.0	236.9	237.0	236.9	236.7	236.7	236.3	236.5	236.9
5°	237.0	236.8	236.7	236.7	236.7	236.9	236.7	236.6	236.5	236.6	236.4
7.5°	236.8	236.6	236.5	236.4	236.5	236.6	236.3	236.1	236.3	236.1	235.8
10°	236.5	236.3	236.3	236.1	236.1	236.1	235.8	235.5	235.7	235.5	235.3
12.5°	236.7	236.3	236.2	236.1	236.0	235.9	235.6	235.3	235.4	235.3	234.9
15°	236.7	236.4	236.3	236.1	236.0	235.9	235.4	235.4	235.4	235.2	234.8
17.5°	236.7	236.6	236.7	236.3	236.1	236.1	235.6	235.4	235.6	235.2	235.0
20°	237.1	237.0	237.0	236.8	236.7	236.6	236.3	236.1	236.2	236.1	235.4
22.5°	238.0	238.0	238.0	238.0	237.9	238.0	237.7	237.7	237.8	237.8	237.2
25°	240.2	240.0	240.2	240.2	240.3	240.7	240.5	240.5	240.7	240.7	240.2
27.5°	244.3	244.2	244.3	244.5	244.7	245.4	245.2	245.4	246.0	245.8	245.3
30°	249.1	249.0	249.3	249.8	250.0	250.9	250.5	251.4	251.9	252.4	251.9
32.5°	256.2	256.2	256.7	257.1	257.7	258.6	258.7	259.5	260.1	260.7	260.3
35°	265.6	265.5	266.0	266.4	267.2	268.0	268.3	269.4	270.3	270.7	269.9
37.5°	280.0	279.3	280.2	280.5	281.0	281.2	282.1	283.4	284.5	284.3	283.7
40°	299.5	299.4	299.1	298.6	299.5	299.9	299.9	301.7	303.3	303.0	302.9
42.5°	322.2	321.7	321.3	321.3	321.9	322.0	324.0	325.3	326.4	326.7	326.4
45°	346.8	346.1	346.3	346.0	346.2	347.1	348.3	350.7	352.7	352.8	351.7
47.5°	373.0	371.2	372.7	370.6	371.9	372.6	375.4	379.1	382.7	383.4	382.3
50°	399.7	399.5	399.4	399.1	399.6	401.0	404.7	410.2	413.8	416.1	414.5
52.5°	428.9	427.9	427.5	426.8	427.4	430.2	435.3	440.1	446.4	449.1	447.0
55°	457.3	456.9	455.3	455.3	456.5	460.8	466.4	472.3	479.2	482.1	481.4
57.5°	486.5	484.7	484.1	483.4	485.8	489.9	496.7	507.4	514.5	518.0	516.0
60°	515.0	513.6	512.5	512.2	513.9	519.6	529.3	542.2	551.1	555.5	552.4
62.5°	545.7	544.7	543.4	542.0	545.5	552.9	564.9	579.2	592.2	597.8	592.9
65°	583.7	581.8	580.4	578.5	581.5	590.7	605.9	625.9	643.4	649.9	646.4
67.5°	623.9	622.1	622.2	621.1	626.3	639.3	658.7	686.0	709.4	720.4	713.9
70°	659.0	659.9	660.3	665.0	674.1	693.6	726.1	768.8	804.4	821.0	814.1
71°	648.7	650.8	654.1	659.2	674.7	697.9	742.1	794.0	836.3	864.6	855.1
72.5°	619.4	620.7	622.3	630.0	647.5	678.2	723.9	783.1	837.5	874.1	863.1
75°	576.9	578.2	578.8	584.0	600.1	626.9	668.7	721.1	769.2	800.4	797.3
77.5°	512.9	513.1	517.8	525.9	543.9	574.5	618.6	672.9	718.1	742.3	727.0
80°	368.4	365.9	370.5	381.1	403.4	438.5	483.5	545.7	595.9	618.5	594.7
82.5°	140.1	147.7	159.7	177.1	184.7	223.8	265.8	302.2	344.6	391.8	379.9
85°	15.1	16.9	21.2	26.4	33.3	46.0	63.6	86.9	107.2	125.9	111.7
87.5°	5.6	5.8	6.4	7.4	7.5	7.8	8.4	9.8	9.1	7.8	6.3
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°	236.6	236.6	236.6	236.6	236.6	236.6	236.6	236.6
2.5°	236.6	236.7	236.6	236.7	236.7	236.4	236.5	236.3
5°	236.6	236.3	236.4	236.5	236.4	236.5	236.3	236.5
7.5°	236.2	235.8	235.9	236.0	235.8	236.0	235.9	235.8
10°	235.5	235.0	235.3	235.2	235.1	235.2	235.2	235.2
12.5°	235.0	234.6	234.7	234.6	234.6	234.8	234.7	234.8
15°	234.8	234.2	234.2	234.0	234.1	234.2	234.3	234.5
17.5°	234.7	234.0	234.0	233.9	233.9	234.1	234.2	234.0
20°	235.1	234.6	234.4	234.2	234.2	234.6	234.4	234.5
22.5°	236.9	236.3	236.2	235.6	235.4	235.6	235.5	235.5
25°	239.8	239.1	238.8	238.1	237.6	237.6	237.4	237.2
27.5°	245.2	244.0	243.7	243.2	242.4	242.5	242.1	242.0
30°	251.4	250.2	249.3	248.6	247.6	247.3	246.9	246.8
32.5°	259.4	258.1	257.0	256.0	254.9	254.3	253.6	253.2
35°	269.2	267.6	266.3	265.7	264.5	263.8	263.4	263.9
37.5°	283.0	281.1	280.5	279.6	278.9	278.0	278.1	278.0
40°	302.1	300.5	299.7	298.2	298.0	297.0	297.7	297.0
42.5°	325.8	322.6	322.1	320.9	320.6	320.0	320.3	319.8
45°	351.4	348.7	348.1	346.2	346.3	344.9	345.4	345.5
47.5°	380.4	377.5	375.1	373.6	373.1	372.3	372.7	372.7
50°	410.2	406.2	403.5	400.8	399.7	400.0	399.1	400.7
52.5°	442.2	436.3	432.6	430.0	427.7	428.2	428.4	428.8
55°	475.4	467.9	462.3	459.1	457.0	457.1	457.7	458.2
57.5°	508.8	499.4	491.9	486.9	485.6	486.2	486.1	486.1
60°	543.4	532.1	522.4	516.8	515.6	515.4	517.9	517.0
62.5°	580.6	566.9	556.9	549.8	548.1	549.2	551.5	551.1
65°	629.9	611.0	598.1	591.0	588.1	589.3	592.4	592.2
67.5°	693.4	666.9	650.1	640.8	638.8	640.2	642.0	643.5
70°	788.4	750.6	726.4	706.6	698.1	696.5	698.1	698.2
71°	821.8	778.4	739.9	715.7	701.8	695.8	696.3	693.4
72.5°	820.5	767.0	721.9	696.6	677.2	672.6	670.2	666.7
75°	765.1	717.0	677.9	650.2	631.6	626.1	622.1	621.8
77.5°	693.9	658.4	615.3	586.1	563.4	554.0	550.0	549.9
80°	557.9	504.7	473.1	455.4	428.1	420.2	411.8	408.7
82.5°	337.3	263.6	214.3	190.5	177.3	146.0	131.0	123.9
85°	78.5	55.8	38.5	25.3	18.2	14.5	11.2	9.9
87.5°	5.3	4.2	3.7	3.0	2.2	2.2	1.4	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)