

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: P180163

Luminaire Tested: **ICM-F01-LED-E1-5XQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180163
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-F01-LED-E1-5XQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2442.3 lumens
Efficiency: N/A
Efficacy: 94.3 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

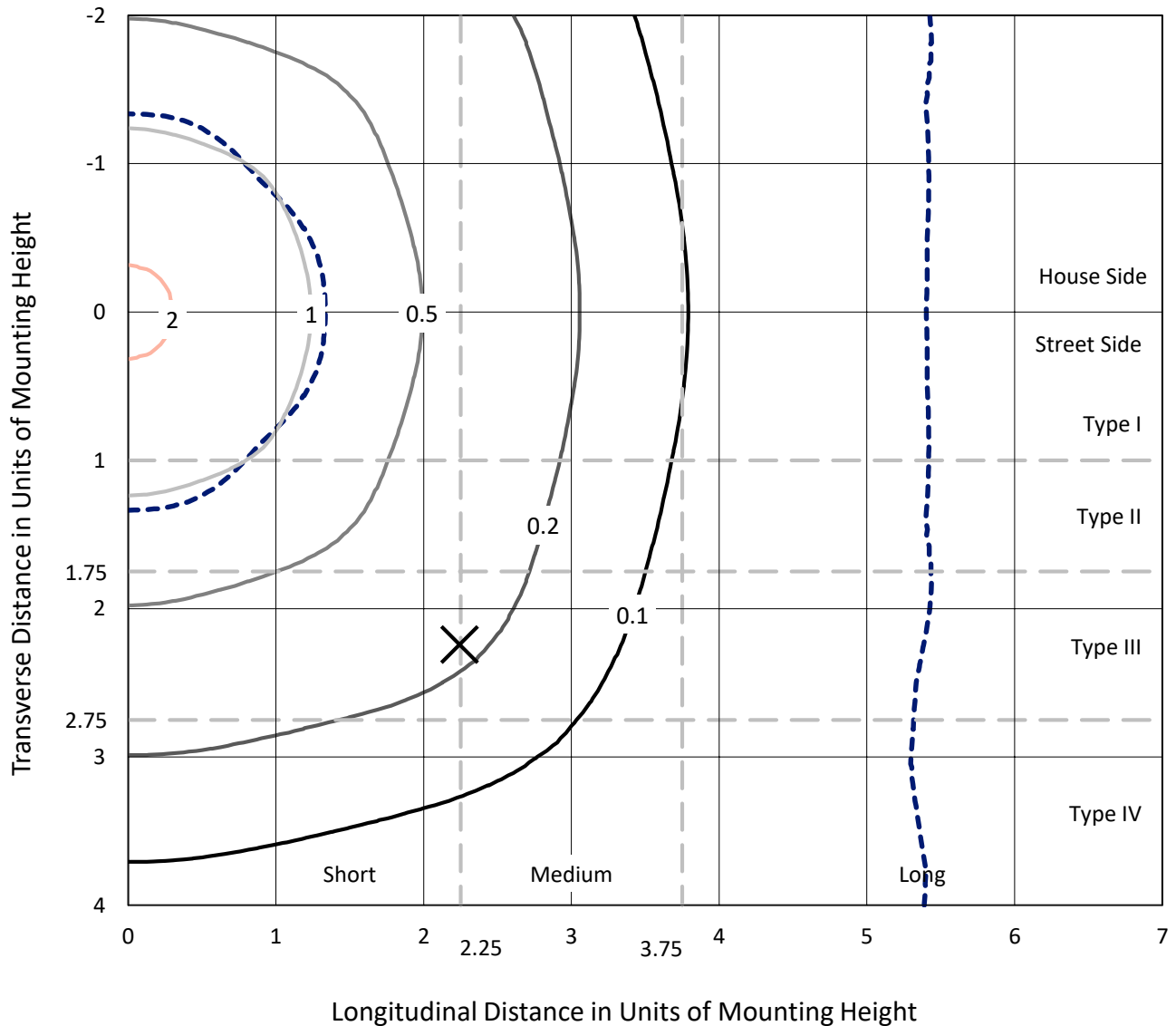
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

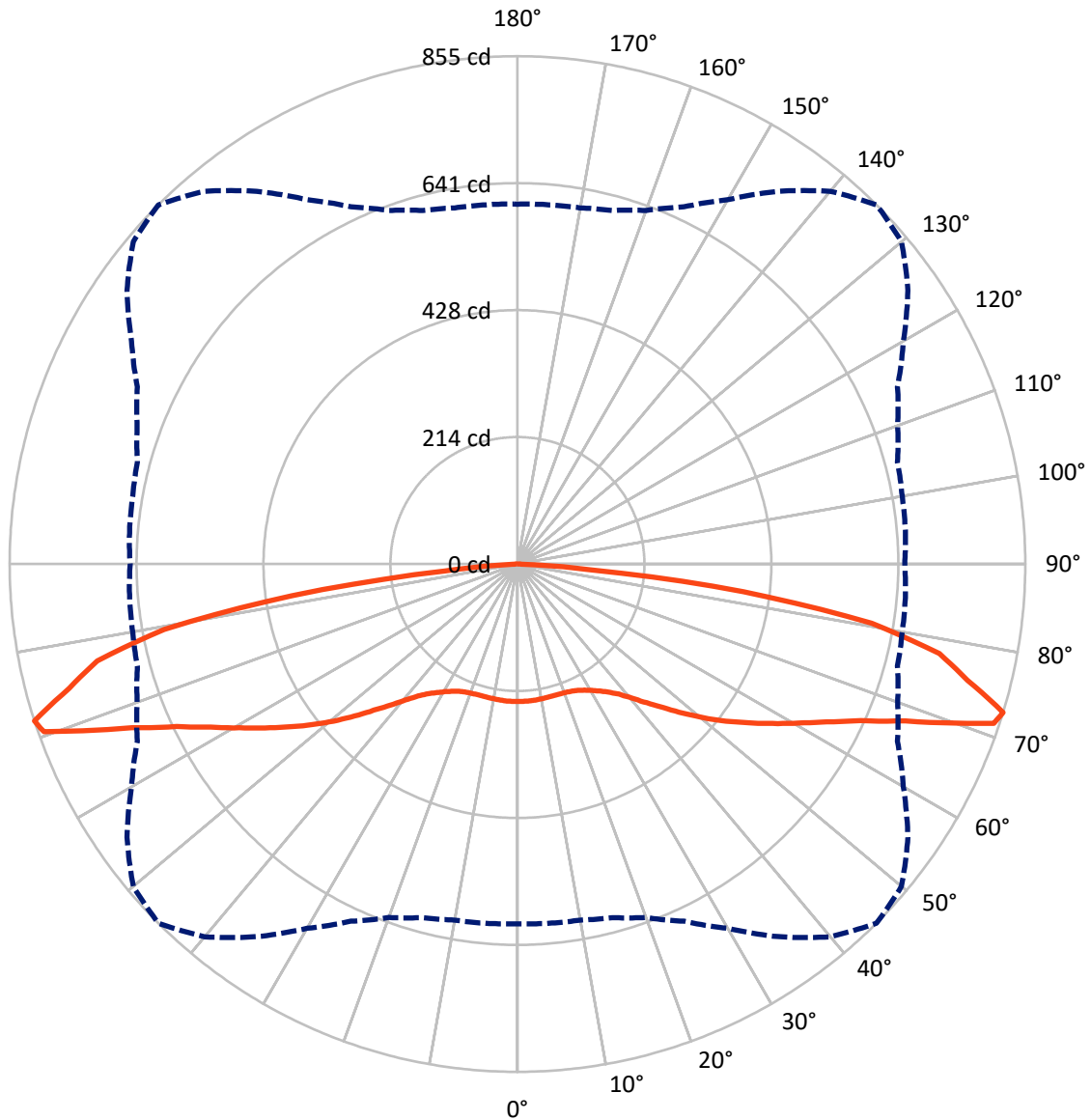
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 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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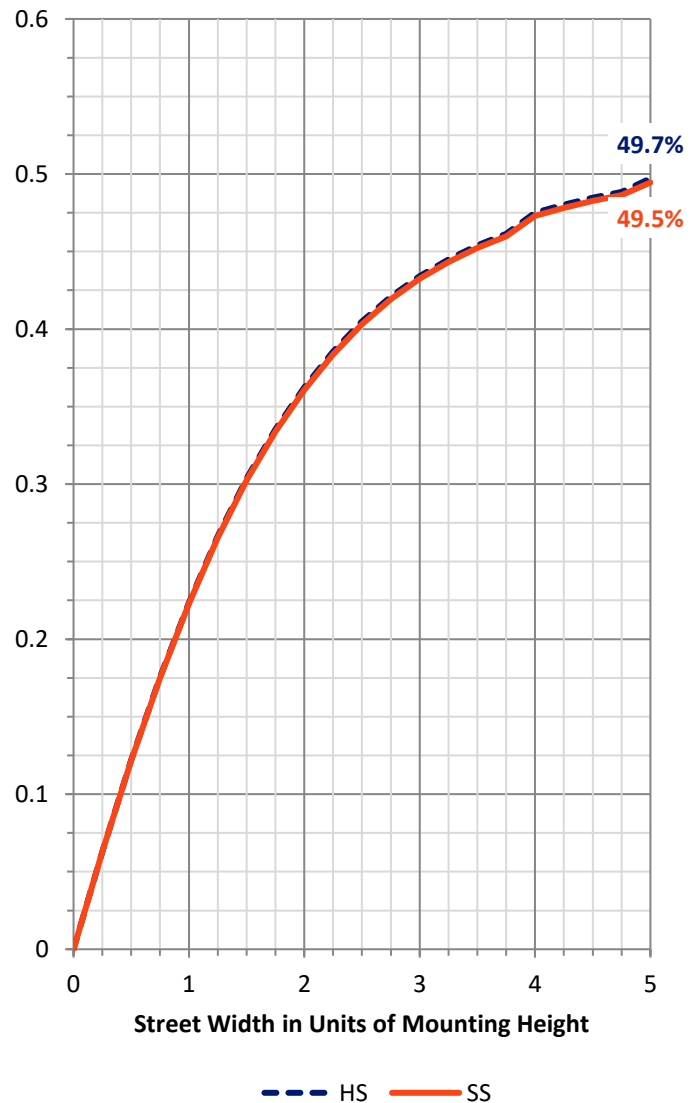
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1221.2	0.0	1221.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1221.2	0.0	1221.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	2442.3	0.0	2442.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.1	0.9
10°-20°	65.2	2.7
20°-30°	109.2	4.5
30°-40°	166.5	6.8
40°-50°	265.9	10.9
50°-60°	408.9	16.7
60°-70°	595.3	24.4
70°-80°	670.7	27.5
80°-90°	138.4	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°	2442.3	100.0
0°-180°	2442.3	100.0



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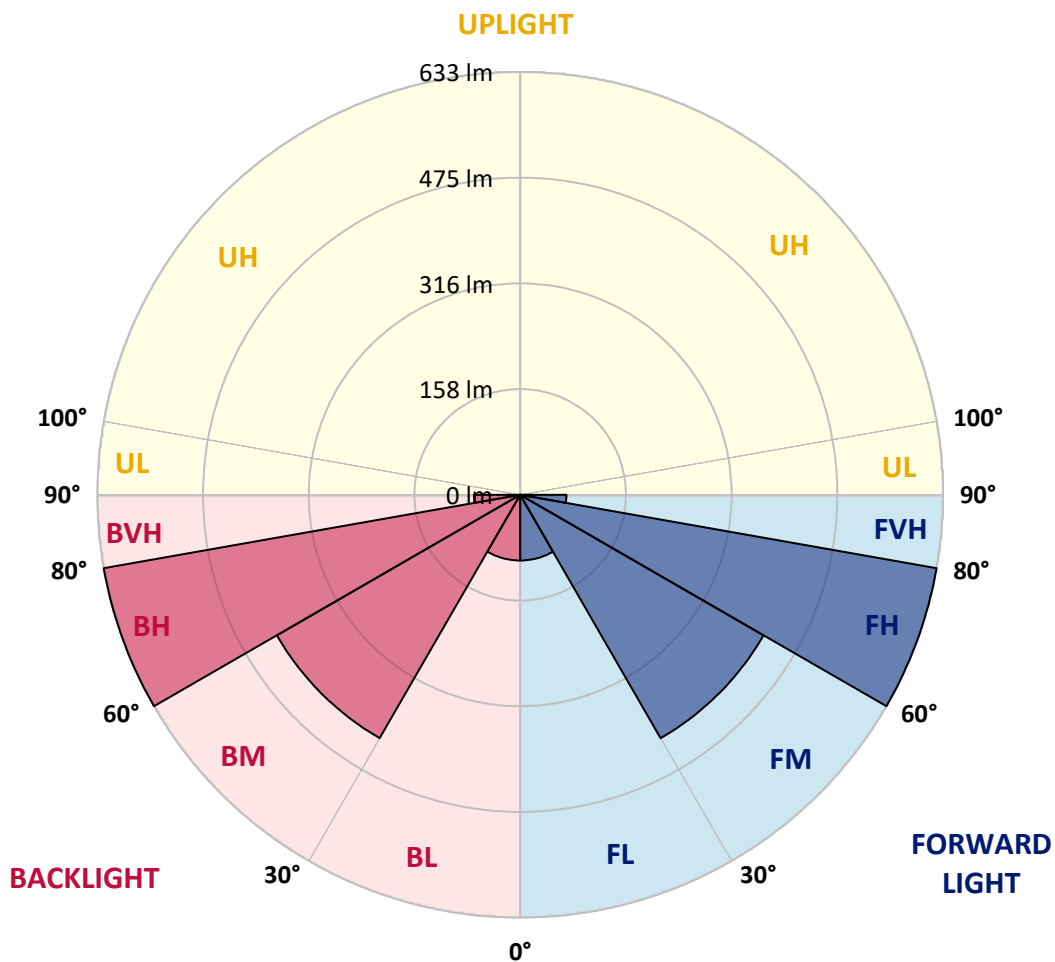
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	98.3	4.0			
FM	(30°-60°)	420.7	17.2			
FH	(60°-80°)	633.0	25.9			G0/660
FVH	(80°-90°)	69.2	2.8			G1/100
BL	(0°-30°)	98.3	4.0	B0/110		
BM	(30°-60°)	420.7	17.2	B1/1000		
BH	(60°-80°)	633.0	25.9	B2/1000		G0/660
BVH	(80°-90°)	69.2	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°	231.4	231.4	231.4	231.4	231.4	231.4	231.4	231.4	231.4	231.4	231.4
2.5°	231.8	231.9	231.8	231.7	231.8	231.7	231.6	231.5	231.1	231.4	231.7
5°	231.8	231.6	231.6	231.5	231.5	231.7	231.5	231.4	231.3	231.4	231.3
7.5°	231.6	231.4	231.3	231.3	231.3	231.4	231.2	230.9	231.1	230.9	230.6
10°	231.3	231.1	231.2	230.9	231.0	230.9	230.6	230.4	230.6	230.4	230.0
12.5°	231.4	231.1	231.1	230.9	230.9	230.8	230.4	230.1	230.1	230.0	229.8
15°	231.4	231.3	231.2	230.9	230.9	230.7	230.3	230.1	230.1	230.0	229.6
17.5°	231.5	231.4	231.4	231.1	231.0	230.9	230.4	230.2	230.4	230.0	229.8
20°	231.9	231.8	231.8	231.6	231.4	231.4	231.1	231.0	231.1	230.9	230.2
22.5°	232.7	232.7	232.8	232.7	232.7	232.7	232.5	232.5	232.6	232.6	232.0
25°	234.9	234.8	235.0	234.9	235.0	235.4	235.3	235.2	235.5	235.5	234.9
27.5°	238.9	238.9	239.0	239.1	239.4	240.0	239.8	240.0	240.6	240.4	239.9
30°	243.7	243.5	243.9	244.3	244.5	245.4	245.0	246.0	246.4	246.9	246.4
32.5°	250.6	250.6	251.2	251.4	252.0	252.9	253.0	253.8	254.3	255.0	254.5
35°	259.8	259.7	260.1	260.6	261.3	262.1	262.4	263.4	264.4	264.7	264.0
37.5°	273.9	273.2	274.0	274.2	274.8	275.1	275.9	277.2	278.1	278.0	277.5
40°	293.0	292.8	292.6	292.1	293.0	293.4	293.4	295.1	296.7	296.4	296.3
42.5°	315.2	314.7	314.2	314.2	314.8	314.9	316.8	318.1	319.3	319.5	319.3
45°	339.2	338.6	338.7	338.4	338.6	339.5	340.7	343.0	345.1	345.1	344.0
47.5°	364.8	363.2	364.5	362.5	363.7	364.4	367.3	370.7	374.3	375.0	374.0
50°	391.0	390.8	390.7	390.3	390.9	392.3	395.8	401.2	404.7	407.1	405.5
52.5°	419.5	418.6	418.1	417.5	418.0	420.8	425.8	430.5	436.7	439.4	437.2
55°	447.4	447.0	445.4	445.3	446.5	450.8	456.2	462.0	468.7	471.6	470.9
57.5°	475.9	474.0	473.5	472.7	475.2	479.3	485.8	496.3	503.3	506.6	504.7
60°	503.8	502.3	501.3	501.0	502.7	508.3	517.8	530.3	539.0	543.4	540.3
62.5°	533.8	532.8	531.5	530.0	533.6	540.8	552.6	566.5	579.3	584.7	580.0
65°	571.0	569.1	567.6	565.9	568.7	577.9	592.6	612.3	629.3	635.5	632.3
67.5°	610.2	608.6	608.7	607.4	612.7	625.2	644.3	671.0	693.9	704.6	698.3
70°	644.6	645.5	645.8	650.4	659.3	678.5	710.2	752.0	786.7	803.1	796.4
71°	634.4	636.6	639.8	644.7	659.9	682.6	726.0	776.6	818.1	845.7	836.4
72.5°	605.8	607.1	608.7	616.2	633.3	663.4	708.1	765.9	819.2	855.0	844.2
75°	564.3	565.5	566.1	571.3	587.0	613.2	654.1	705.3	752.4	782.9	779.8
77.5°	501.8	502.0	506.4	514.4	532.0	562.0	605.0	658.2	702.5	726.1	711.1
80°	360.3	357.9	362.4	372.7	394.5	428.9	472.9	533.8	582.9	605.0	581.8
82.5°	137.1	144.5	156.2	173.2	180.6	218.9	259.9	295.6	336.9	383.3	371.6
85°	14.7	16.6	20.8	25.8	32.6	45.0	62.2	85.0	104.7	123.2	109.3
87.5°	5.5	5.6	6.3	7.3	7.3	7.7	8.2	9.5	8.9	7.7	6.2
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°	231.4	231.4	231.4	231.4	231.4	231.4	231.4	231.4
2.5°	231.4	231.4	231.4	231.4	231.4	231.3	231.3	231.1
5°	231.4	231.1	231.3	231.3	231.3	231.4	231.2	231.3
7.5°	231.1	230.6	230.8	230.8	230.6	230.9	230.7	230.6
10°	230.4	229.9	230.1	230.0	230.0	230.0	230.0	230.0
12.5°	229.8	229.5	229.6	229.5	229.4	229.6	229.6	229.6
15°	229.7	229.2	229.1	229.0	229.0	229.2	229.1	229.4
17.5°	229.6	228.9	228.8	228.7	228.8	229.0	229.1	229.0
20°	230.0	229.4	229.3	229.2	229.1	229.4	229.4	229.4
22.5°	231.7	231.1	231.1	230.5	230.3	230.5	230.4	230.3
25°	234.6	233.9	233.6	232.9	232.4	232.4	232.2	232.0
27.5°	239.8	238.7	238.4	237.8	237.1	237.2	236.8	236.8
30°	245.8	244.7	243.9	243.1	242.2	241.9	241.5	241.4
32.5°	253.7	252.5	251.4	250.4	249.2	248.8	248.1	247.6
35°	263.4	261.8	260.6	259.8	258.6	258.0	257.6	258.1
37.5°	276.8	275.0	274.3	273.5	272.7	271.8	272.0	271.8
40°	295.5	293.9	293.2	291.7	291.5	290.5	291.2	290.5
42.5°	318.7	315.5	315.2	314.0	313.6	312.9	313.3	312.7
45°	343.8	341.0	340.5	338.6	338.7	337.4	337.9	337.9
47.5°	372.1	369.2	366.8	365.5	365.0	364.1	364.6	364.5
50°	401.2	397.3	394.7	392.1	390.9	391.3	390.3	391.9
52.5°	432.6	426.8	423.1	420.6	418.4	418.8	419.0	419.4
55°	465.0	457.7	452.3	448.9	447.0	447.1	447.7	448.2
57.5°	497.7	488.4	481.1	476.3	475.0	475.5	475.5	475.5
60°	531.5	520.4	511.0	505.5	504.4	504.0	506.5	505.7
62.5°	567.9	554.5	544.8	537.8	536.1	537.2	539.4	539.0
65°	616.1	597.6	585.0	578.1	575.3	576.4	579.4	579.4
67.5°	678.2	652.4	635.8	626.8	624.8	626.1	627.8	629.4
70°	771.2	734.1	710.5	691.2	682.8	681.2	682.9	683.0
71°	803.8	761.4	723.7	700.0	686.4	680.7	681.1	678.2
72.5°	802.5	750.2	706.1	681.3	662.4	657.8	655.5	652.1
75°	748.5	701.3	663.1	636.1	617.8	612.4	608.4	608.2
77.5°	678.7	644.0	601.8	573.2	551.0	542.0	538.0	537.8
80°	545.7	493.6	462.7	445.6	418.7	411.0	402.8	399.7
82.5°	330.0	257.9	209.7	186.3	173.4	142.8	128.1	121.2
85°	76.8	54.6	37.6	24.7	17.8	14.1	10.9	9.7
87.5°	5.2	4.1	3.6	3.0	2.2	2.1	1.3	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)