

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: P180116

Luminaire Tested: **ICS-E01-LED-E1-5WQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180116
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-8030
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2418.5 lumens
Efficiency: N/A
Efficacy: 97.9 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

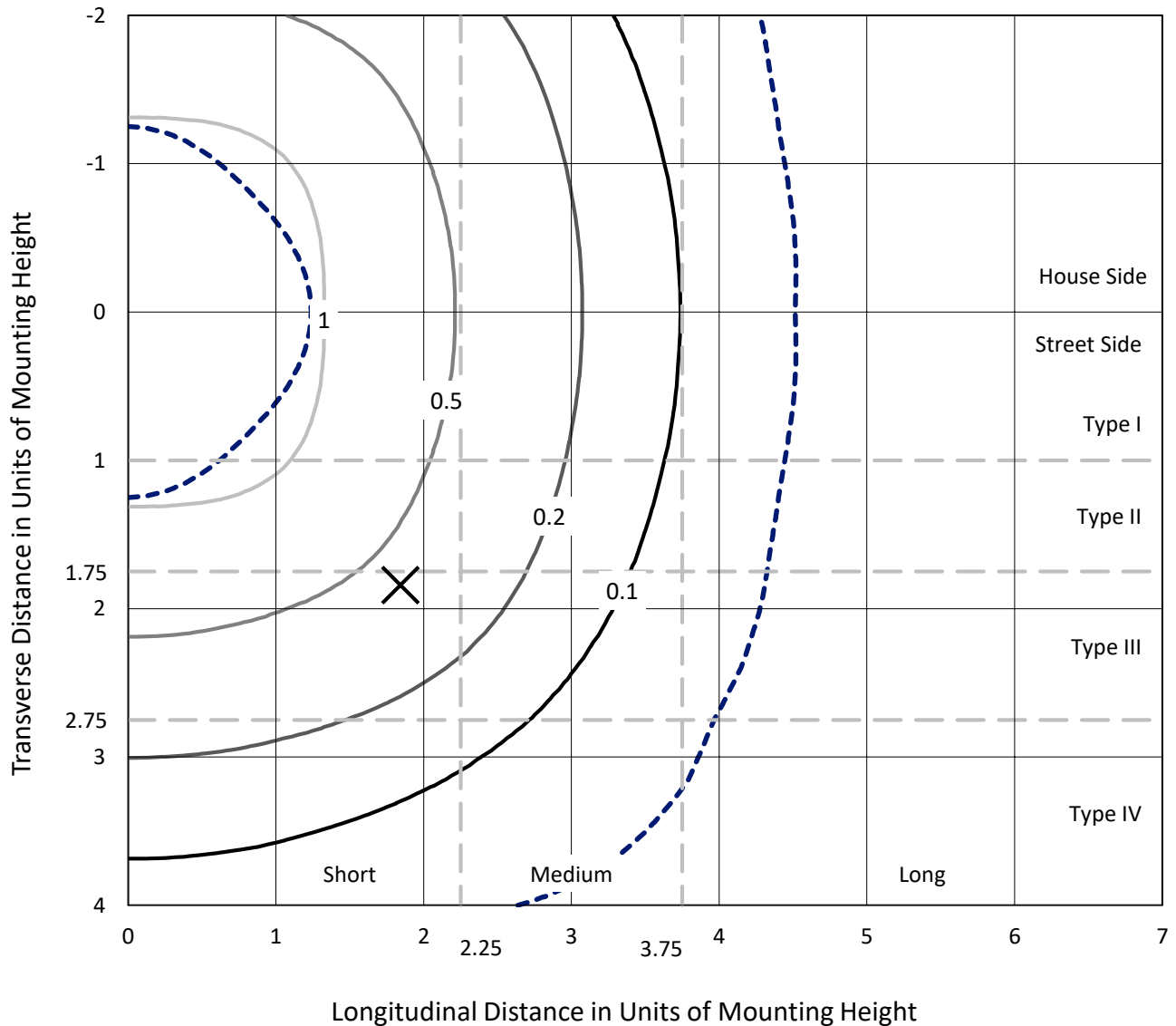
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

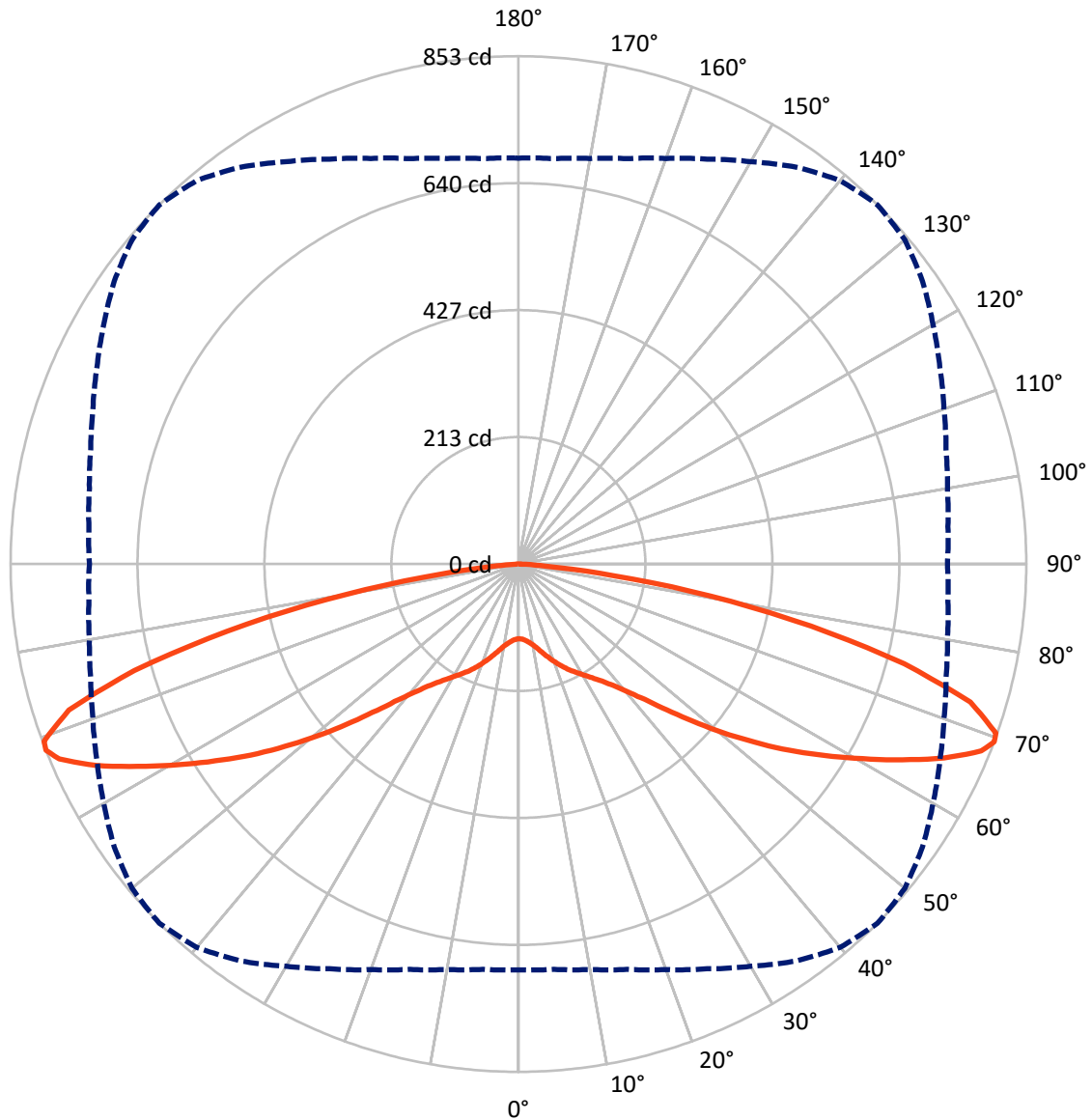
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.5 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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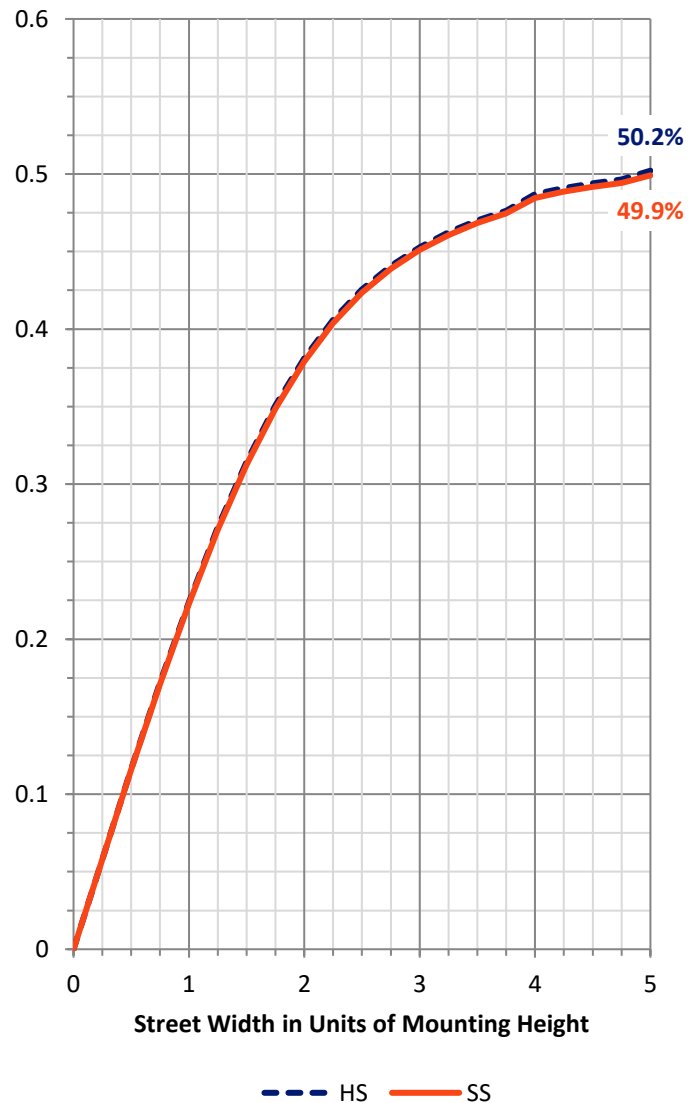
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1209.3	0.0	1209.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1209.3	0.0	1209.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	2418.5	0.0	2418.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.6	0.5
10°-20°	44.5	1.8
20°-30°	90.2	3.7
30°-40°	151.2	6.3
40°-50°	266.7	11.0
50°-60°	470.3	19.4
60°-70°	718.0	29.7
70°-80°	599.9	24.8
80°-90°	65.2	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°	2418.5	100.0
0°-180°	2418.5	100.0



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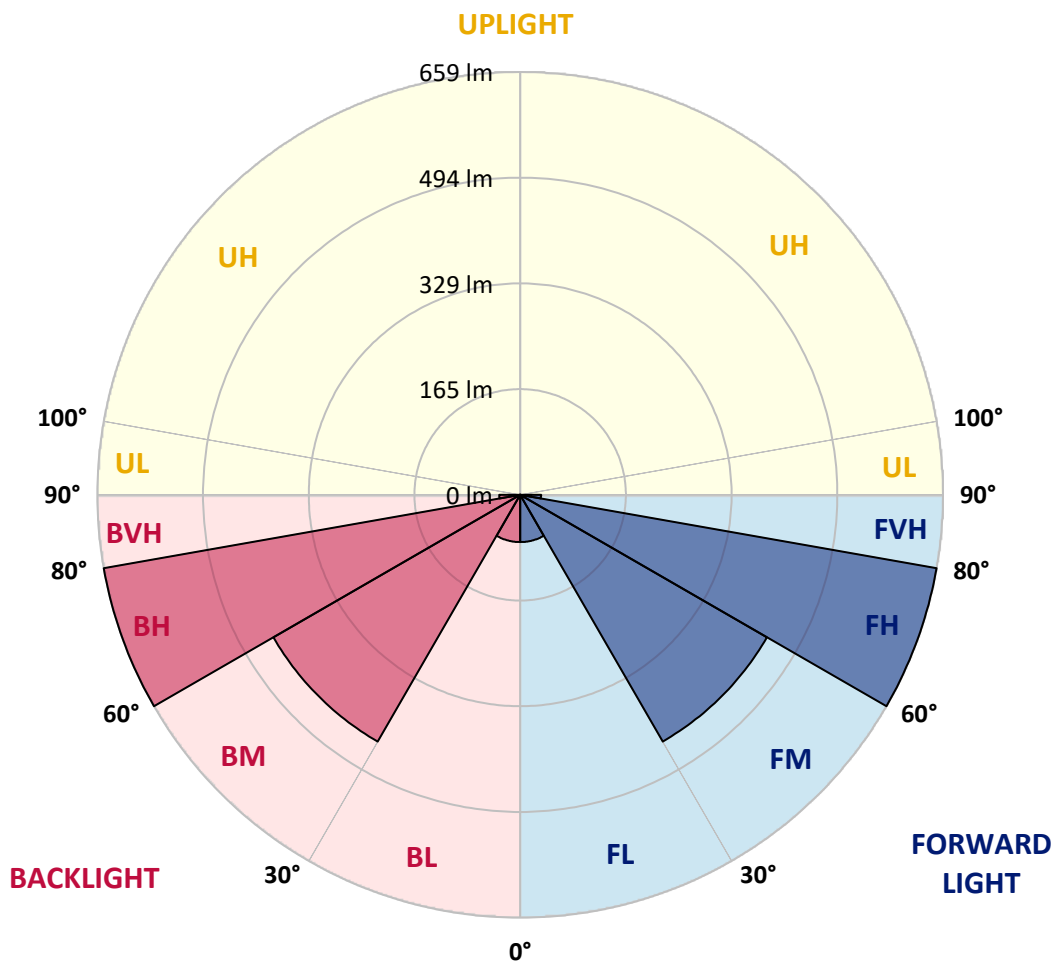
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	73.7	3.0			
FM (30°-60°)	444.1	18.4			
FH (60°-80°)	658.9	27.2			G0/660
FVH (80°-90°)	32.6	1.3			G1/100
BL (0°-30°)	73.7	3.0	B0/110		
BM (30°-60°)	444.1	18.4	B1/1000		
BH (60°-80°)	658.9	27.2	B2/1000		G0/660
BVH (80°-90°)	32.6	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°	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.6
2.5°	126.6	126.9	126.6	126.6	126.6	126.6	126.6	126.4	126.4	126.4	126.6
5°	129.1	129.4	129.1	129.4	129.4	129.4	129.4	129.1	129.1	129.1	129.1
7.5°	133.2	133.2	133.2	133.4	133.2	133.2	133.4	133.2	133.2	133.2	133.2
10°	139.0	138.8	138.8	138.8	138.8	138.8	139.0	139.0	139.0	138.8	138.8
12.5°	146.1	145.8	146.1	146.1	146.4	146.4	146.4	146.4	146.4	146.4	146.1
15°	154.7	154.7	154.7	155.0	155.5	155.5	155.2	155.5	155.5	155.5	155.5
17.5°	164.3	164.8	164.3	164.6	164.8	164.6	165.1	165.3	165.6	165.3	164.6
20°	174.2	174.5	174.5	174.5	174.5	175.0	175.2	175.2	176.0	175.7	175.5
22.5°	183.6	184.1	184.1	184.3	184.3	185.1	185.1	185.1	185.6	186.1	185.6
25°	193.5	193.2	193.2	193.7	194.0	195.0	195.0	195.5	196.2	196.5	196.0
27.5°	202.3	202.1	202.1	202.8	203.1	204.3	204.3	205.4	205.9	206.1	205.6
30°	211.7	211.7	211.4	212.2	213.0	214.0	214.5	215.5	216.2	216.5	216.0
32.5°	222.8	222.3	222.6	223.1	223.6	224.6	225.4	226.6	227.6	227.9	227.4
35°	235.5	234.7	235.0	235.5	236.2	237.8	239.0	239.8	241.3	241.8	240.8
37.5°	249.4	249.7	249.4	250.7	251.9	253.7	255.2	256.2	257.8	258.5	257.8
40°	269.2	268.4	269.2	270.4	272.5	274.7	277.8	278.5	280.1	281.6	279.8
42.5°	294.7	294.2	296.0	297.0	299.3	301.8	305.6	307.7	309.9	310.9	309.4
45°	328.2	328.2	330.2	330.4	334.0	337.3	342.6	345.1	349.4	349.4	349.4
47.5°	365.1	366.6	367.9	370.4	373.0	379.1	384.4	389.9	394.0	394.5	393.7
50°	403.4	404.9	408.7	412.2	417.8	425.4	431.2	438.6	442.1	445.1	444.1
52.5°	445.7	445.9	450.5	455.0	463.1	471.5	480.8	488.4	494.8	497.6	495.3
55°	492.0	492.5	496.5	501.4	510.5	520.1	531.7	539.6	547.7	552.8	549.0
57.5°	542.1	542.4	546.4	552.3	563.1	572.8	583.9	595.0	602.6	607.2	604.7
60°	597.6	598.8	601.9	609.2	619.6	629.7	640.9	650.8	659.6	664.4	661.9
62.5°	656.8	658.1	662.4	668.2	677.3	688.5	699.1	711.8	719.1	724.4	720.6
65°	696.6	698.9	705.7	713.5	727.0	741.4	753.8	771.0	779.9	786.2	782.7
67.5°	699.1	700.4	708.7	720.6	738.6	760.4	785.7	812.6	830.0	838.4	832.3
69°	681.9	683.7	691.8	705.2	725.2	750.5	780.6	814.1	840.9	853.3	847.5
70°	662.4	666.2	675.1	689.7	709.2	735.8	767.0	802.7	834.1	851.0	846.7
72.5°	621.4	622.4	628.2	639.9	654.8	676.8	706.2	739.9	769.8	794.1	797.6
75°	551.5	554.8	559.1	566.9	574.5	590.5	610.2	633.3	650.8	669.5	670.2
77.5°	416.8	426.7	430.0	431.7	435.0	447.7	464.9	484.9	499.3	502.4	501.9
80°	187.1	200.3	203.3	217.8	226.6	247.6	274.0	304.6	325.1	327.4	321.8
82.5°	36.7	39.2	45.8	57.2	78.0	90.4	107.6	129.1	148.9	160.3	153.4
85°	12.2	12.9	14.9	16.5	19.0	21.5	26.1	32.4	40.3	44.6	39.8
87.5°	4.8	4.8	5.6	6.1	6.6	6.6	6.6	6.1	5.8	4.8	4.3
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°	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.6
2.5°	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4
5°	129.1	128.9	128.9	128.6	128.6	128.6	128.6	128.6
7.5°	132.9	132.7	132.4	132.7	132.4	132.4	132.4	132.4
10°	138.8	138.3	138.0	137.7	137.7	137.7	137.5	137.5
12.5°	145.6	145.6	145.3	145.1	144.6	144.8	144.6	144.1
15°	155.0	154.5	154.2	154.0	153.4	153.4	153.4	153.2
17.5°	164.3	163.8	163.8	163.1	162.8	162.8	162.8	163.1
20°	174.7	174.0	173.4	172.9	172.4	172.7	172.2	172.7
22.5°	185.1	184.1	183.6	182.8	182.1	182.1	181.8	181.3
25°	195.2	194.0	193.5	192.7	191.7	191.7	191.2	190.7
27.5°	204.8	203.6	203.1	201.6	200.5	200.3	199.8	199.5
30°	215.5	214.0	213.2	211.7	210.2	209.9	209.2	209.2
32.5°	226.6	225.1	224.6	222.3	221.1	221.1	220.5	220.0
35°	240.6	238.3	237.8	235.5	233.7	233.7	233.2	233.5
37.5°	257.0	255.2	253.5	251.7	249.7	249.4	248.9	248.4
40°	279.0	277.0	275.0	272.5	270.7	270.2	269.4	269.2
42.5°	308.4	306.4	302.3	300.3	298.5	297.0	296.8	296.5
45°	345.9	343.4	340.6	336.8	334.5	331.2	330.7	329.4
47.5°	391.0	386.1	381.3	378.0	374.5	370.7	369.9	367.9
50°	438.8	435.0	426.9	421.6	416.0	412.2	409.7	408.9
52.5°	490.2	483.1	475.0	467.9	459.8	454.8	450.2	448.9
55°	543.9	533.8	523.6	515.3	507.2	501.1	496.8	494.8
57.5°	597.6	586.4	575.3	566.2	559.3	551.5	547.2	546.2
60°	653.5	642.9	631.5	622.4	614.0	607.2	604.7	599.9
62.5°	712.8	701.6	691.0	682.2	671.5	666.7	662.4	659.6
65°	771.0	758.1	744.7	735.3	724.7	717.9	712.5	708.7
67.5°	816.1	796.6	778.6	762.9	748.5	737.9	731.0	727.5
69°	828.8	804.5	781.4	760.9	743.9	732.0	724.4	720.9
70°	827.2	800.4	775.1	752.5	734.1	721.4	714.1	707.5
72.5°	780.4	755.8	727.7	703.2	686.5	674.3	667.0	663.4
75°	665.9	649.5	629.2	610.2	598.1	591.0	581.9	582.1
77.5°	484.9	485.4	471.7	452.2	438.6	436.0	432.0	427.9
80°	300.8	276.8	261.1	240.0	224.6	211.2	205.4	192.7
82.5°	138.8	108.4	84.1	63.6	48.9	38.2	33.4	27.3
85°	30.9	23.5	19.5	15.7	13.4	12.4	10.1	9.4
87.5°	4.3	3.8	3.5	3.3	2.8	2.0	1.5	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)