

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: P180218

Luminaire Tested: **ICS-E01-LED-E1-5XQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180218
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: ICS-E01-LED-E1-5XQ
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2862.3 lumens
Efficiency: N/A
Efficacy: 115.9 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

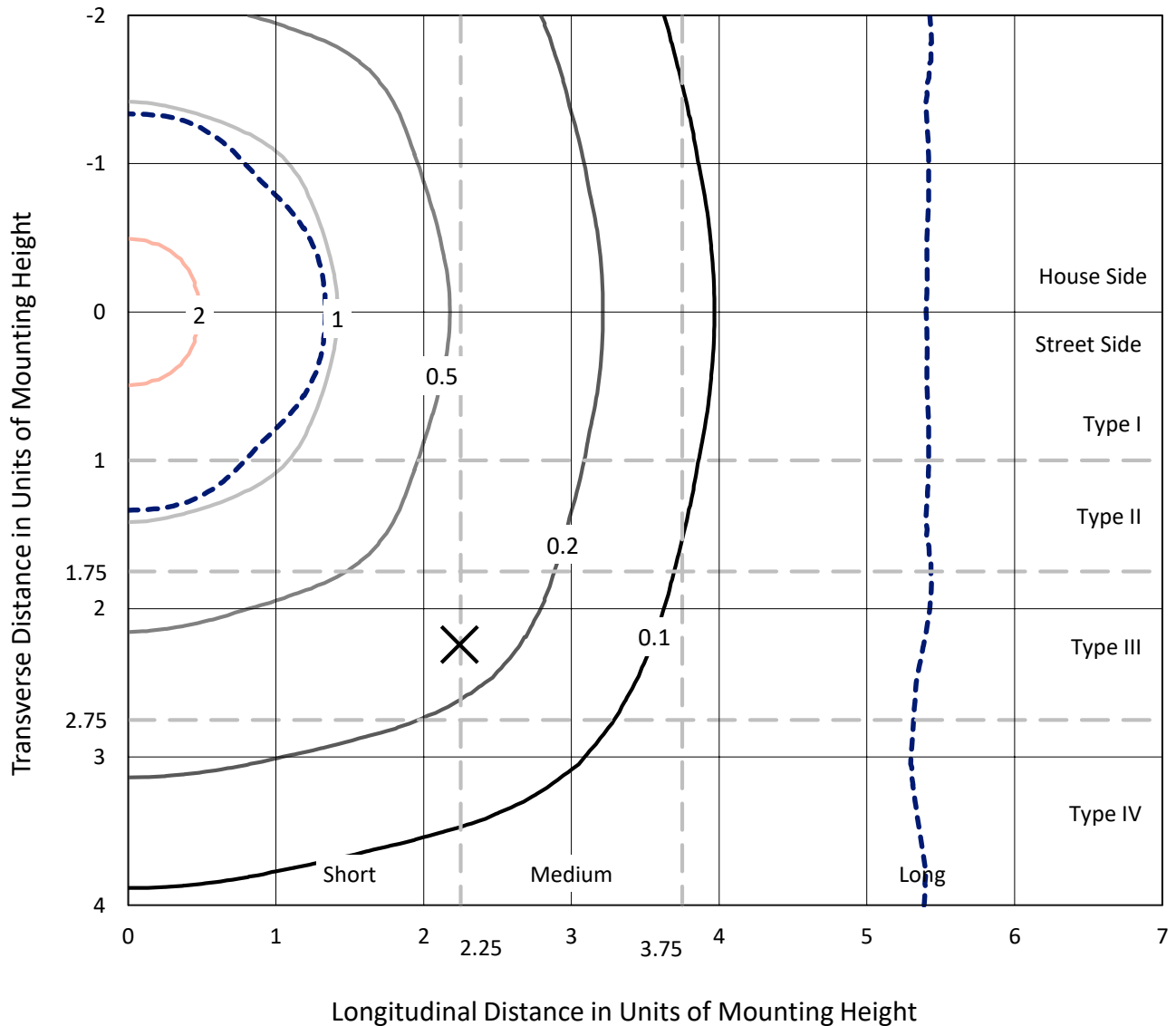
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

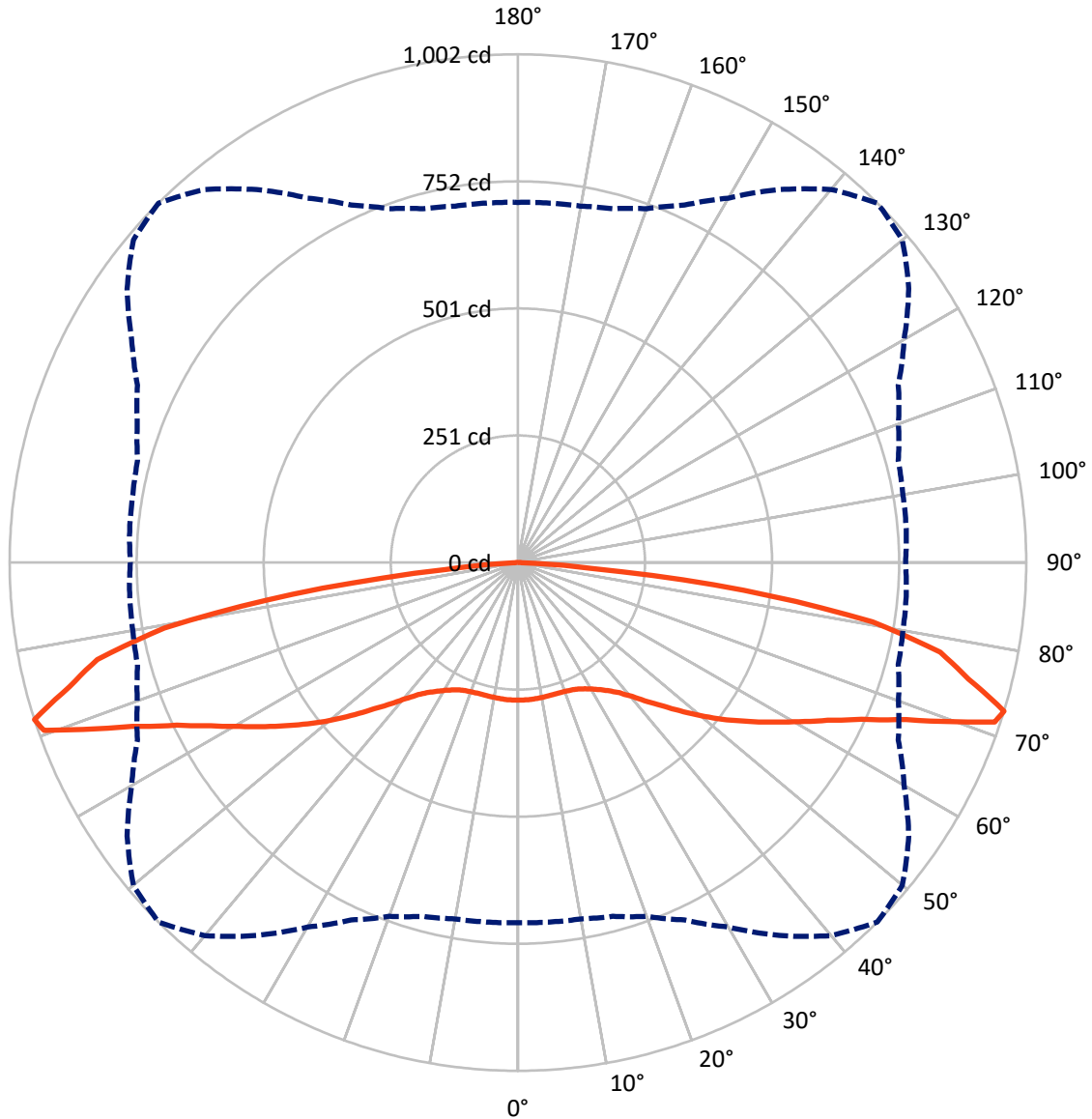
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.7 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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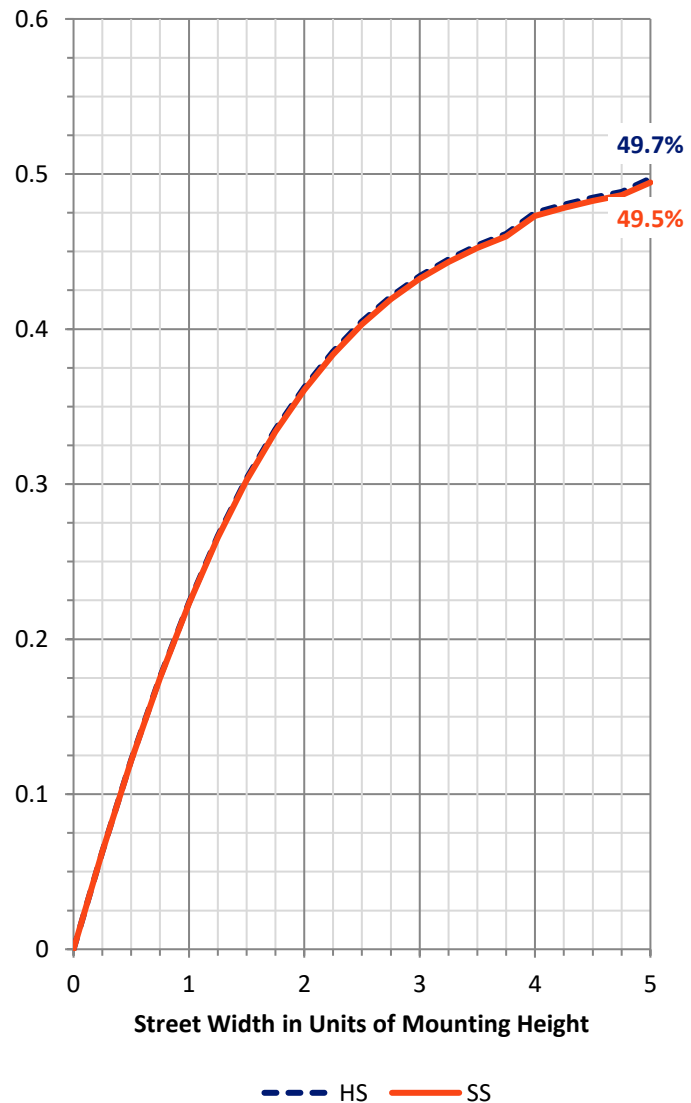
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1431.2	0.0	1431.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1431.2	0.0	1431.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	2862.3	0.0	2862.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.8	0.9
10°-20°	76.5	2.7
20°-30°	128.0	4.5
30°-40°	195.2	6.8
40°-50°	311.7	10.9
50°-60°	479.2	16.7
60°-70°	697.7	24.4
70°-80°	786.0	27.5
80°-90°	162.3	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°	2862.3	100.0
0°-180°	2862.3	100.0



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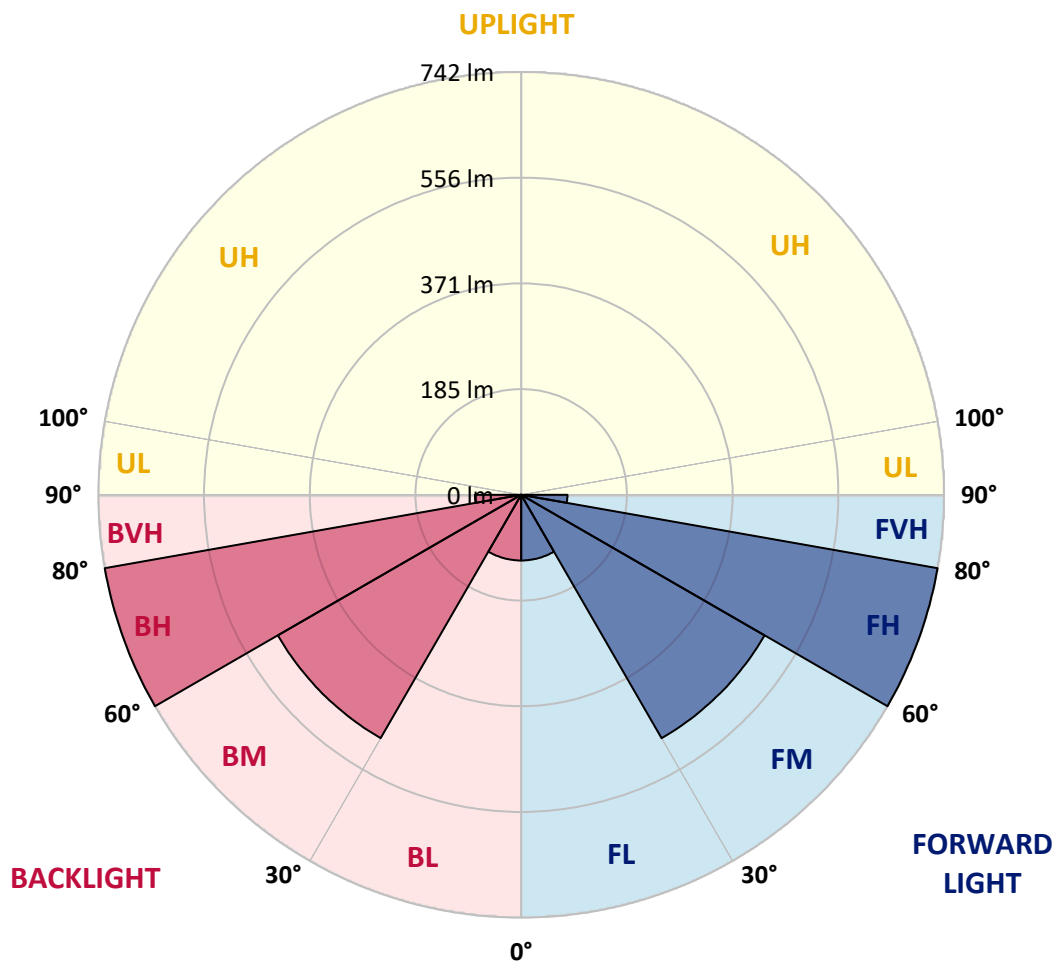
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	115.2	4.0			
FM	(30°-60°)	493.0	17.2			
FH	(60°-80°)	741.9	25.9			G1/1800
FVH	(80°-90°)	81.1	2.8			G1/100
BL	(0°-30°)	115.2	4.0	B1/500		
BM	(30°-60°)	493.0	17.2	B1/1000		
BH	(60°-80°)	741.9	25.9	B2/1000		G1/1800
BVH	(80°-90°)	81.1	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°	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2
2.5°	271.6	271.8	271.7	271.6	271.6	271.6	271.4	271.4	270.8	271.1	271.6
5°	271.6	271.5	271.4	271.3	271.4	271.6	271.4	271.1	271.0	271.2	271.0
7.5°	271.5	271.2	271.0	271.0	271.0	271.1	270.9	270.6	270.8	270.6	270.3
10°	271.0	270.8	270.9	270.6	270.7	270.6	270.3	270.1	270.2	270.0	269.6
12.5°	271.2	270.8	270.8	270.6	270.5	270.4	270.1	269.7	269.8	269.6	269.2
15°	271.2	271.0	270.9	270.6	270.5	270.4	269.9	269.8	269.8	269.6	269.1
17.5°	271.4	271.2	271.2	270.8	270.7	270.6	270.1	269.8	270.1	269.6	269.3
20°	271.8	271.6	271.7	271.5	271.2	271.2	270.8	270.7	270.8	270.7	269.8
22.5°	272.7	272.7	272.8	272.8	272.7	272.8	272.5	272.5	272.6	272.6	271.9
25°	275.2	275.2	275.3	275.3	275.4	275.9	275.7	275.6	276.0	276.0	275.3
27.5°	280.0	279.9	280.0	280.2	280.6	281.2	281.1	281.3	281.9	281.8	281.2
30°	285.6	285.4	285.8	286.3	286.6	287.6	287.2	288.3	288.8	289.3	288.8
32.5°	293.7	293.7	294.4	294.7	295.3	296.4	296.6	297.4	298.1	298.9	298.4
35°	304.5	304.4	304.9	305.4	306.2	307.2	307.6	308.8	309.8	310.4	309.4
37.5°	321.0	320.2	321.2	321.5	322.1	322.3	323.4	324.9	326.0	325.9	325.2
40°	343.4	343.2	342.8	342.4	343.4	343.8	343.8	345.8	347.6	347.3	347.2
42.5°	369.5	368.8	368.3	368.3	368.9	369.1	371.4	372.9	374.2	374.5	374.2
45°	397.5	396.8	397.0	396.7	396.9	397.9	399.2	402.0	404.4	404.5	403.2
47.5°	427.6	425.6	427.2	424.9	426.3	427.0	430.4	434.5	438.7	439.4	438.3
50°	458.2	458.0	457.9	457.4	458.1	459.8	463.9	470.2	474.3	477.0	475.2
52.5°	491.7	490.6	490.0	489.3	490.0	493.2	499.0	504.5	511.8	514.9	512.4
55°	524.2	523.9	521.9	521.8	523.3	528.3	534.6	541.4	549.3	552.8	551.8
57.5°	557.7	555.5	554.9	554.0	556.9	561.6	569.3	581.6	589.8	593.7	591.4
60°	590.4	588.8	587.5	587.2	589.1	595.7	606.8	621.6	631.7	636.8	633.2
62.5°	625.5	624.4	623.0	621.2	625.3	633.8	647.6	664.0	678.9	685.2	679.7
65°	669.2	667.0	665.3	663.2	666.5	677.2	694.5	717.5	737.6	744.9	741.0
67.5°	715.2	713.2	713.3	712.0	718.0	732.8	755.1	786.4	813.2	825.8	818.4
70°	755.4	756.5	756.8	762.3	772.7	795.2	832.4	881.4	922.1	941.2	933.4
71°	743.6	746.0	749.8	755.6	773.4	800.0	850.8	910.2	958.8	991.2	980.3
72.5°	710.0	711.4	713.4	722.1	742.3	777.5	829.8	897.6	960.2	1002.1	989.5
75°	661.4	662.8	663.4	669.5	687.9	718.6	766.5	826.6	881.8	917.5	914.0
77.5°	588.0	588.2	593.5	602.8	623.5	658.6	709.1	771.4	823.3	851.0	833.4
80°	422.2	419.4	424.8	436.9	462.4	502.7	554.3	625.6	683.1	709.0	681.8
82.5°	160.6	169.4	183.1	203.0	211.6	256.5	304.7	346.5	395.0	449.1	435.5
85°	17.2	19.4	24.4	30.2	38.2	52.8	73.0	99.6	122.8	144.3	128.1
87.5°	6.5	6.6	7.4	8.5	8.6	9.0	9.6	11.2	10.4	9.0	7.3
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°	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2
2.5°	271.2	271.3	271.2	271.3	271.3	271.0	271.0	270.9
5°	271.1	270.9	271.0	271.0	271.0	271.1	270.9	271.0
7.5°	270.8	270.3	270.5	270.5	270.3	270.5	270.4	270.3
10°	270.0	269.4	269.7	269.6	269.5	269.6	269.6	269.6
12.5°	269.3	269.0	269.0	269.0	268.9	269.1	269.0	269.1
15°	269.2	268.6	268.5	268.3	268.4	268.6	268.6	268.8
17.5°	269.0	268.3	268.2	268.0	268.1	268.4	268.5	268.4
20°	269.5	268.9	268.7	268.6	268.5	268.9	268.8	268.8
22.5°	271.6	270.8	270.8	270.2	269.9	270.2	270.0	270.0
25°	275.0	274.0	273.8	272.9	272.3	272.3	272.1	272.0
27.5°	281.0	279.7	279.4	278.7	277.9	278.0	277.6	277.5
30°	288.1	286.9	285.8	284.8	283.9	283.5	283.0	282.9
32.5°	297.3	296.0	294.7	293.5	292.1	291.6	290.7	290.2
35°	308.6	306.8	305.3	304.5	303.2	302.5	301.9	302.5
37.5°	324.4	322.3	321.5	320.6	319.6	318.6	318.8	318.6
40°	346.4	344.4	343.6	341.9	341.7	340.5	341.2	340.5
42.5°	373.4	369.8	369.3	368.0	367.5	366.8	367.1	366.6
45°	402.9	399.7	399.1	396.9	397.0	395.4	396.0	396.0
47.5°	436.1	432.7	429.9	428.3	427.7	426.8	427.3	427.2
50°	470.2	465.7	462.6	459.5	458.2	458.6	457.5	459.3
52.5°	507.0	500.2	495.8	492.9	490.4	490.9	491.0	491.6
55°	545.0	536.3	530.0	526.2	523.9	524.0	524.7	525.3
57.5°	583.3	572.4	563.8	558.2	556.6	557.3	557.3	557.2
60°	623.0	609.9	598.9	592.4	591.1	590.7	593.6	592.7
62.5°	665.6	649.9	638.5	630.2	628.3	629.6	632.2	631.6
65°	722.0	700.4	685.6	677.5	674.2	675.5	679.0	678.9
67.5°	794.8	764.6	745.1	734.6	732.2	733.9	735.8	737.7
70°	903.8	860.5	832.7	810.0	800.2	798.4	800.3	800.4
71°	942.1	892.4	848.2	820.4	804.4	797.7	798.2	794.8
72.5°	940.6	879.2	827.6	798.5	776.3	770.9	768.3	764.2
75°	877.1	821.9	777.1	745.4	724.0	717.7	713.0	712.8
77.5°	795.4	754.7	705.3	671.8	645.8	635.2	630.4	630.3
80°	639.4	578.5	542.3	522.2	490.7	481.6	472.0	468.4
82.5°	386.7	302.2	245.7	218.3	203.2	167.3	150.2	142.0
85°	90.1	64.0	44.1	29.0	20.8	16.6	12.8	11.2
87.5°	6.1	4.8	4.3	3.4	2.6	2.6	1.6	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)