

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: P180133

Luminaire Tested: **ICS-F02-LED-E1-5WQ**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180133  
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-F02-LED-E1-5WQ  
Description: ICON SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4731.2 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 55  
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

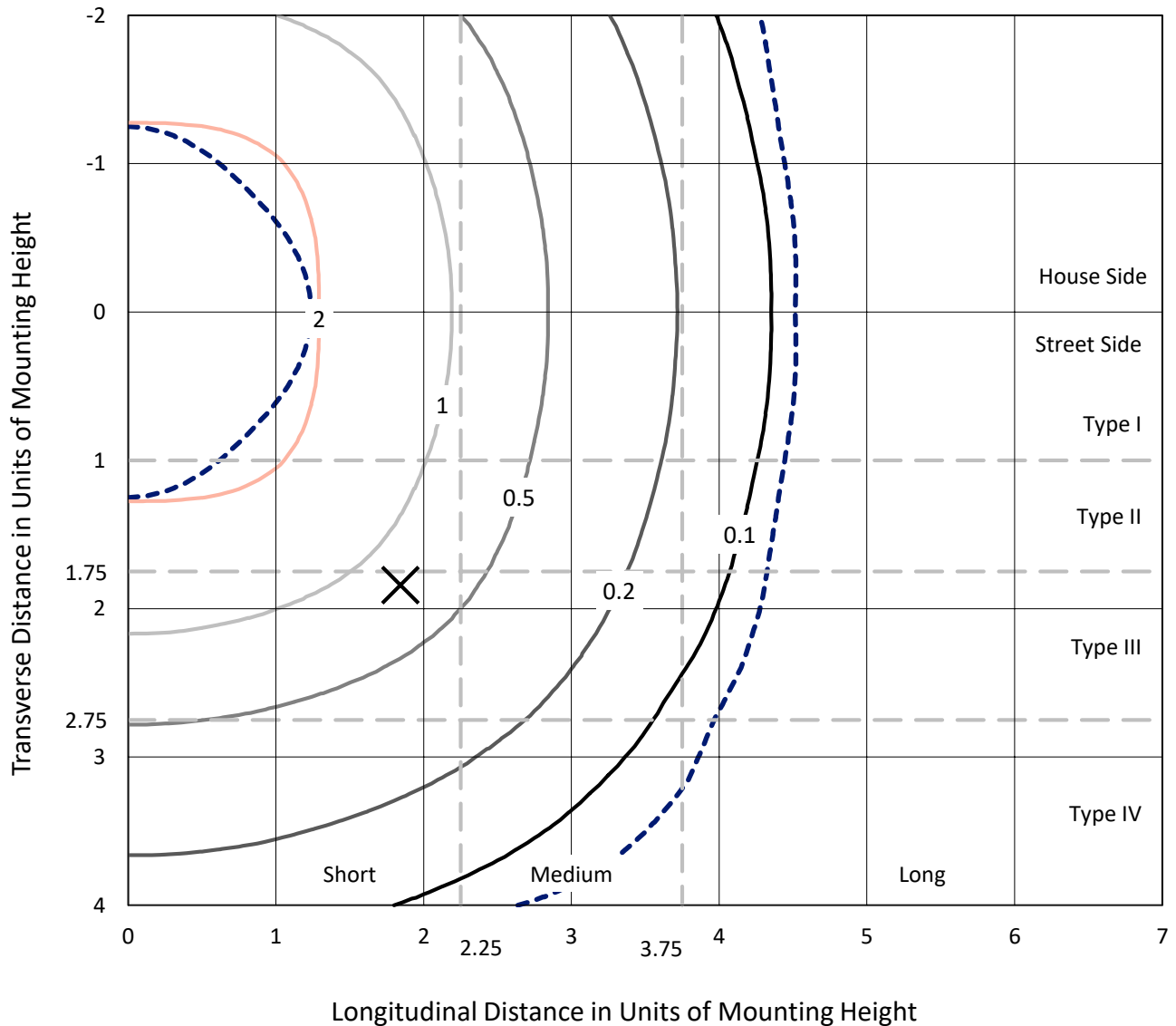


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

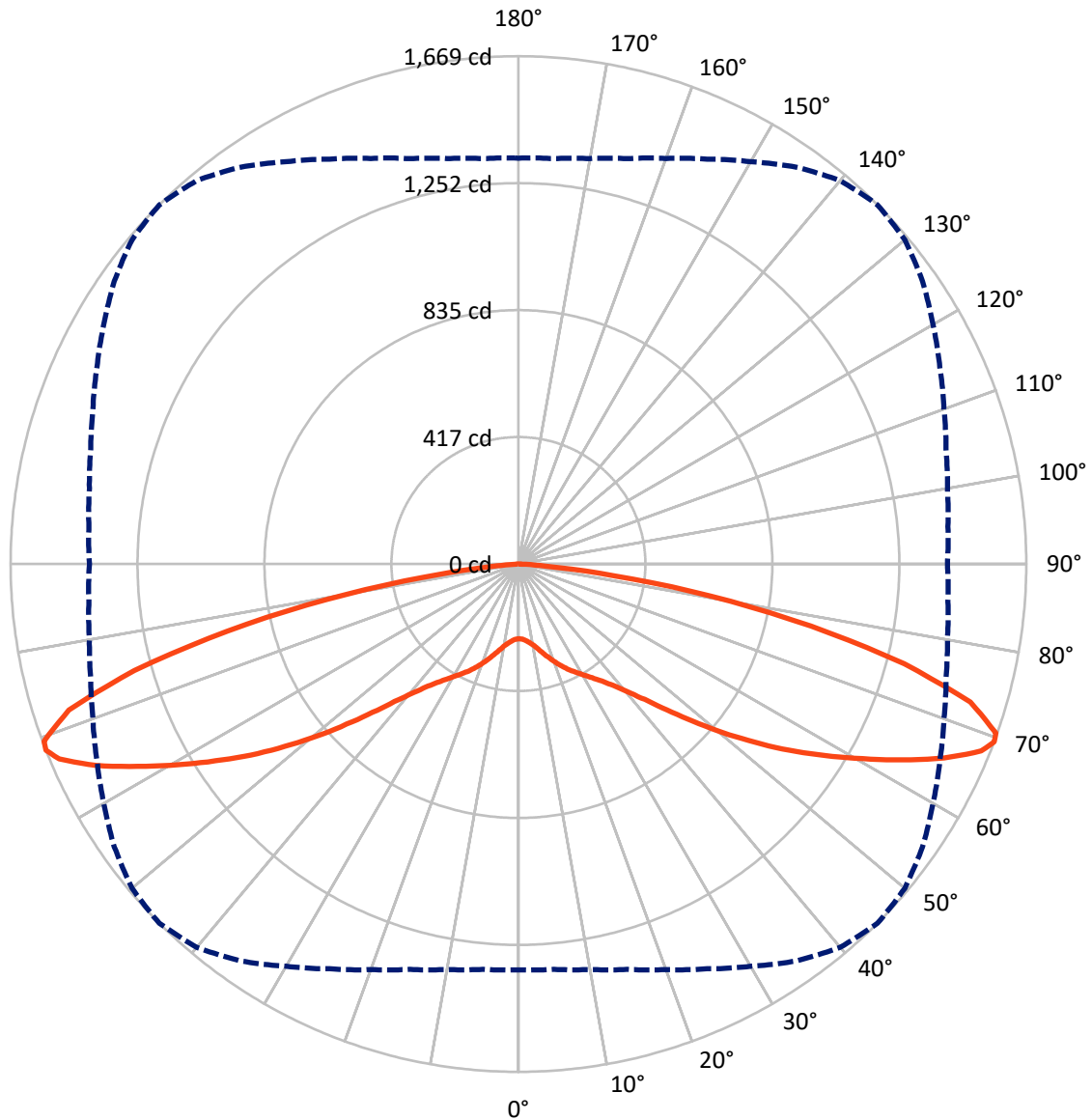


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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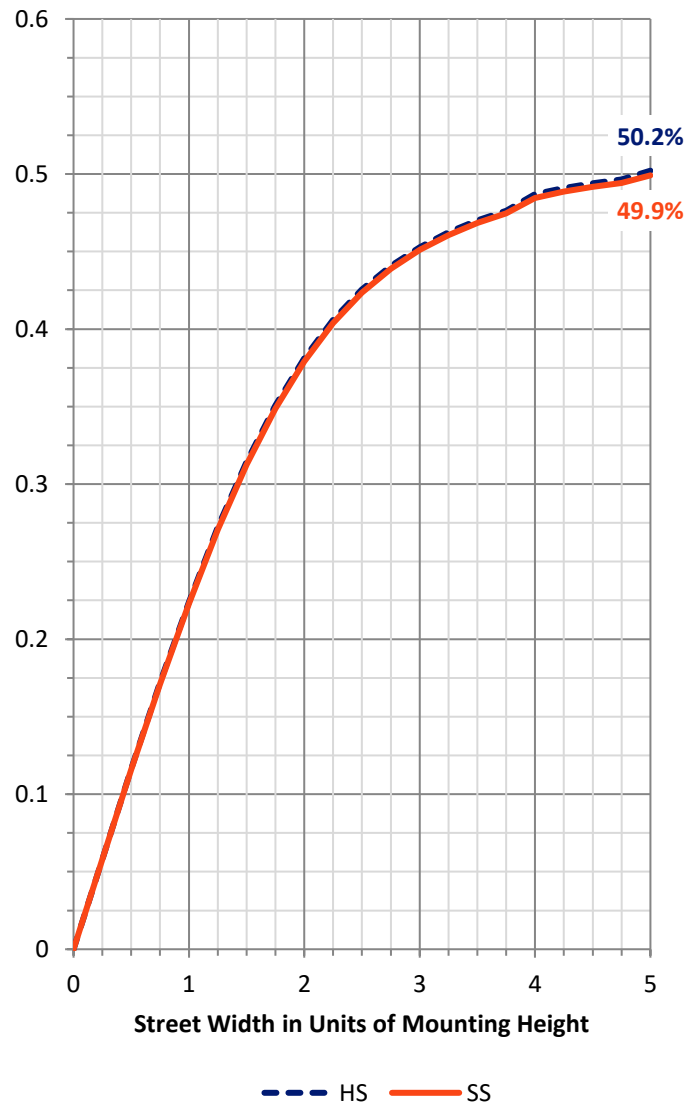
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2365.6	0.0	2365.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2365.6	0.0	2365.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4731.2	0.0	4731.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.7	0.5
10°-20°	87.1	1.8
20°-30°	176.4	3.7
30°-40°	295.7	6.3
40°-50°	521.7	11.0
50°-60°	920.0	19.4
60°-70°	1404.5	29.7
70°-80°	1173.6	24.8
80°-90°	127.5	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°	4731.2	100.0
0°-180°	4731.2	100.0



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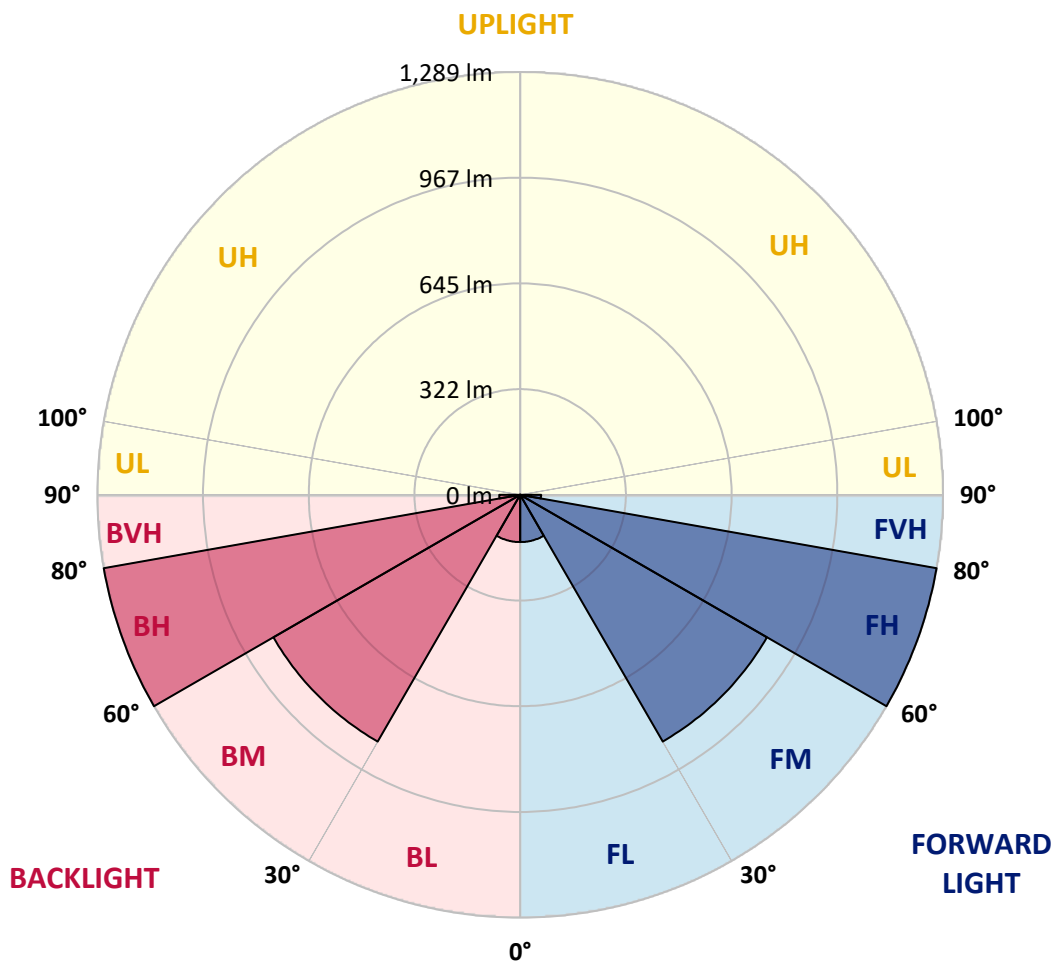
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	144.1	3.0			
FM	(30°-60°)	868.7	18.4			
FH	(60°-80°)	1289.1	27.2			G1/1800
FVH	(80°-90°)	63.8	1.3			G1/100
BL	(0°-30°)	144.1	3.0	B1/500		
BM	(30°-60°)	868.7	18.4	B1/1000		
BH	(60°-80°)	1289.1	27.2	B3/2500		G1/1800
BVH	(80°-90°)	63.8	1.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7
2.5°	247.7	248.2	247.7	247.7	247.7	247.7	247.7	247.2	247.2	247.2	247.7
5°	252.6	253.1	252.6	253.1	253.1	253.1	253.1	252.6	252.6	252.6	252.6
7.5°	260.5	260.5	260.5	261.0	260.5	260.5	261.0	260.5	260.5	260.5	260.5
10°	271.9	271.4	271.4	271.4	271.4	271.4	271.9	271.9	271.9	271.4	271.4
12.5°	285.8	285.3	285.8	285.8	286.3	286.3	286.3	286.3	286.3	286.3	285.8
15°	302.7	302.7	302.7	303.1	304.1	304.1	303.6	304.1	304.1	304.1	304.1
17.5°	321.5	322.5	321.5	322.0	322.5	322.0	323.0	323.5	324.0	323.5	322.0
20°	340.8	341.3	341.3	341.3	341.3	342.3	342.8	342.8	344.3	343.8	343.3
22.5°	359.1	360.1	360.1	360.6	360.6	362.1	362.1	362.1	363.1	364.1	363.1
25°	378.4	377.9	377.9	378.9	379.4	381.4	381.4	382.4	383.9	384.4	383.4
27.5°	395.8	395.3	395.3	396.8	397.3	399.7	399.7	401.7	402.7	403.2	402.2
30°	414.1	414.1	413.6	415.1	416.6	418.6	419.6	421.5	423.0	423.5	422.5
32.5°	435.9	434.9	435.4	436.4	437.4	439.4	440.9	443.3	445.3	445.8	444.8
35°	460.7	459.2	459.7	460.7	462.2	465.1	467.6	469.1	472.1	473.1	471.1
37.5°	487.9	488.4	487.9	490.4	492.9	496.3	499.3	501.3	504.3	505.7	504.3
40°	526.5	525.1	526.5	529.0	533.0	537.4	543.4	544.9	547.8	550.8	547.4
42.5°	576.6	575.6	579.1	581.0	585.5	590.4	597.9	601.8	606.3	608.3	605.3
45°	642.0	642.0	645.9	646.4	653.4	659.8	670.2	675.2	683.6	683.6	683.6
47.5°	714.3	717.3	719.7	724.7	729.6	741.5	751.9	762.8	770.8	771.7	770.3
50°	789.1	792.1	799.5	806.4	817.3	832.2	843.6	857.9	864.9	870.8	868.8
52.5°	871.8	872.3	881.2	890.1	906.0	922.3	940.7	955.5	967.9	973.3	968.9
55°	962.4	963.4	971.4	980.8	998.6	1017.4	1040.2	1055.6	1071.4	1081.3	1073.9
57.5°	1060.5	1061.0	1068.9	1080.3	1101.6	1120.5	1142.3	1164.1	1178.9	1187.8	1182.9
60°	1169.0	1171.5	1177.4	1191.8	1212.1	1231.9	1253.7	1273.0	1290.4	1299.8	1294.8
62.5°	1284.9	1287.4	1295.8	1307.2	1325.0	1346.8	1367.6	1392.4	1406.8	1417.2	1409.7
65°	1362.7	1367.1	1380.5	1395.9	1422.1	1450.4	1474.6	1508.3	1525.7	1538.0	1531.1
67.5°	1367.6	1370.1	1386.5	1409.7	1444.9	1487.5	1537.0	1589.6	1623.7	1640.1	1628.2
69°	1334.0	1337.4	1353.3	1379.5	1418.7	1468.2	1527.1	1592.5	1645.0	1669.3	1657.9
70°	1295.8	1303.2	1320.6	1349.3	1387.5	1439.5	1500.4	1570.2	1631.7	1664.8	1656.4
72.5°	1215.6	1217.6	1228.9	1251.7	1281.0	1324.0	1381.5	1447.4	1505.8	1553.4	1560.3
75°	1078.9	1085.3	1093.7	1109.1	1123.9	1155.1	1193.8	1238.9	1273.0	1309.7	1311.2
77.5°	815.3	834.7	841.1	844.6	851.0	875.8	909.4	948.6	976.8	982.8	981.8
80°	366.1	391.8	397.8	426.0	443.3	484.4	536.0	595.9	636.0	640.5	629.6
82.5°	71.8	76.8	89.7	111.9	152.6	176.8	210.5	252.6	291.3	313.6	300.2
85°	23.8	25.3	29.2	32.2	37.2	42.1	51.0	63.4	78.8	87.2	77.8
87.5°	9.4	9.4	10.9	11.9	12.9	12.9	12.9	11.9	11.4	9.4	8.4
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°	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7
2.5°	247.2	247.2	247.2	247.2	247.2	247.2	247.2	247.2
5°	252.6	252.1	252.1	251.6	251.6	251.6	251.6	251.6
7.5°	260.1	259.6	259.1	259.6	259.1	259.1	259.1	259.1
10°	271.4	270.5	270.0	269.5	269.5	269.5	269.0	269.0
12.5°	284.8	284.8	284.3	283.8	282.8	283.3	282.8	281.8
15°	303.1	302.2	301.7	301.2	300.2	300.2	300.2	299.7
17.5°	321.5	320.5	320.5	319.0	318.5	318.5	318.5	319.0
20°	341.8	340.3	339.3	338.3	337.3	337.8	336.8	337.8
22.5°	362.1	360.1	359.1	357.6	356.2	356.2	355.7	354.7
25°	381.9	379.4	378.4	377.0	375.0	375.0	374.0	373.0
27.5°	400.7	398.3	397.3	394.3	392.3	391.8	390.8	390.3
30°	421.5	418.6	417.1	414.1	411.1	410.6	409.2	409.2
32.5°	443.3	440.4	439.4	434.9	432.4	432.4	431.4	430.5
35°	470.6	466.1	465.1	460.7	457.2	457.2	456.2	456.7
37.5°	502.8	499.3	495.8	492.4	488.4	487.9	486.9	485.9
40°	545.9	541.9	537.9	533.0	529.5	528.5	527.0	526.5
42.5°	603.3	599.4	591.4	587.5	584.0	581.0	580.5	580.0
45°	676.6	671.7	666.2	658.8	654.3	647.9	646.9	644.4
47.5°	764.8	755.4	746.0	739.5	732.6	725.2	723.7	719.7
50°	858.4	851.0	835.1	824.7	813.8	806.4	801.5	800.0
52.5°	959.0	945.1	929.3	915.4	899.5	889.6	880.7	878.2
55°	1064.0	1044.2	1024.4	1008.0	992.2	980.3	971.9	967.9
57.5°	1169.0	1147.2	1125.4	1107.6	1094.2	1078.9	1070.4	1068.5
60°	1278.5	1257.7	1235.4	1217.6	1201.2	1187.8	1182.9	1173.5
62.5°	1394.4	1372.6	1351.8	1334.5	1313.6	1304.2	1295.8	1290.4
65°	1508.3	1483.1	1456.8	1438.5	1417.7	1404.3	1393.9	1386.5
67.5°	1596.5	1558.3	1523.2	1492.5	1464.2	1443.4	1430.1	1423.1
69°	1621.3	1573.7	1528.6	1488.5	1455.3	1432.0	1417.2	1410.2
70°	1618.3	1565.8	1516.2	1472.2	1436.0	1411.2	1396.9	1384.0
72.5°	1526.6	1478.6	1423.6	1375.6	1342.9	1319.1	1304.7	1297.8
75°	1302.7	1270.6	1230.9	1193.8	1170.0	1156.1	1138.3	1138.8
77.5°	948.6	949.6	922.8	884.7	857.9	853.0	845.1	837.1
80°	588.5	541.4	510.7	469.6	439.4	413.1	401.7	377.0
82.5°	271.4	212.0	164.5	124.3	95.6	74.8	65.4	53.5
85°	60.4	46.1	38.1	30.7	26.3	24.3	19.8	18.3
87.5°	8.4	7.4	6.9	6.4	5.4	4.0	3.0	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)