

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: P180226

Luminaire Tested: **ICS-E02-LED-E1-5XQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180226
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-E02-LED-E1-5XQ-8030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4831.8 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

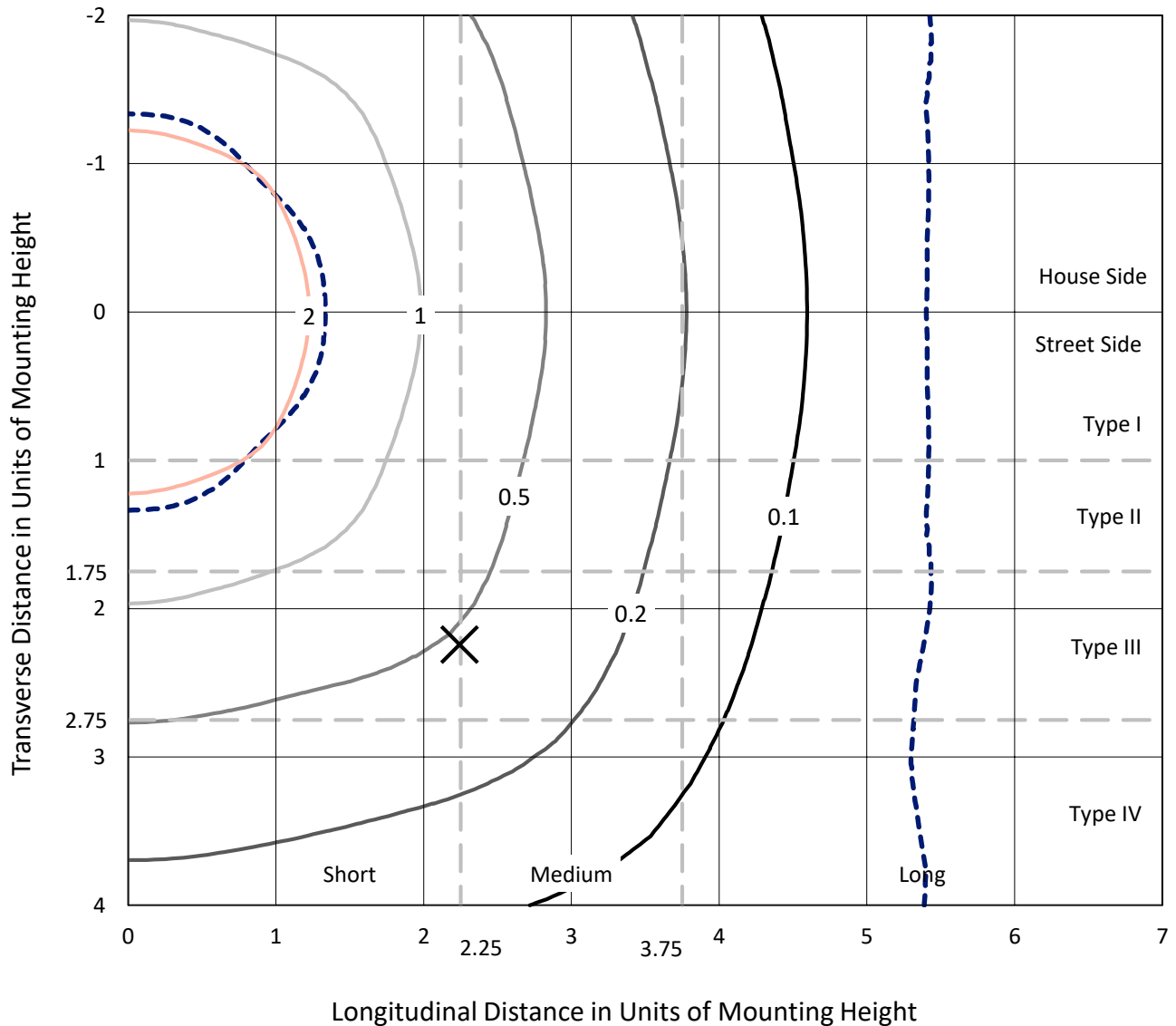
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

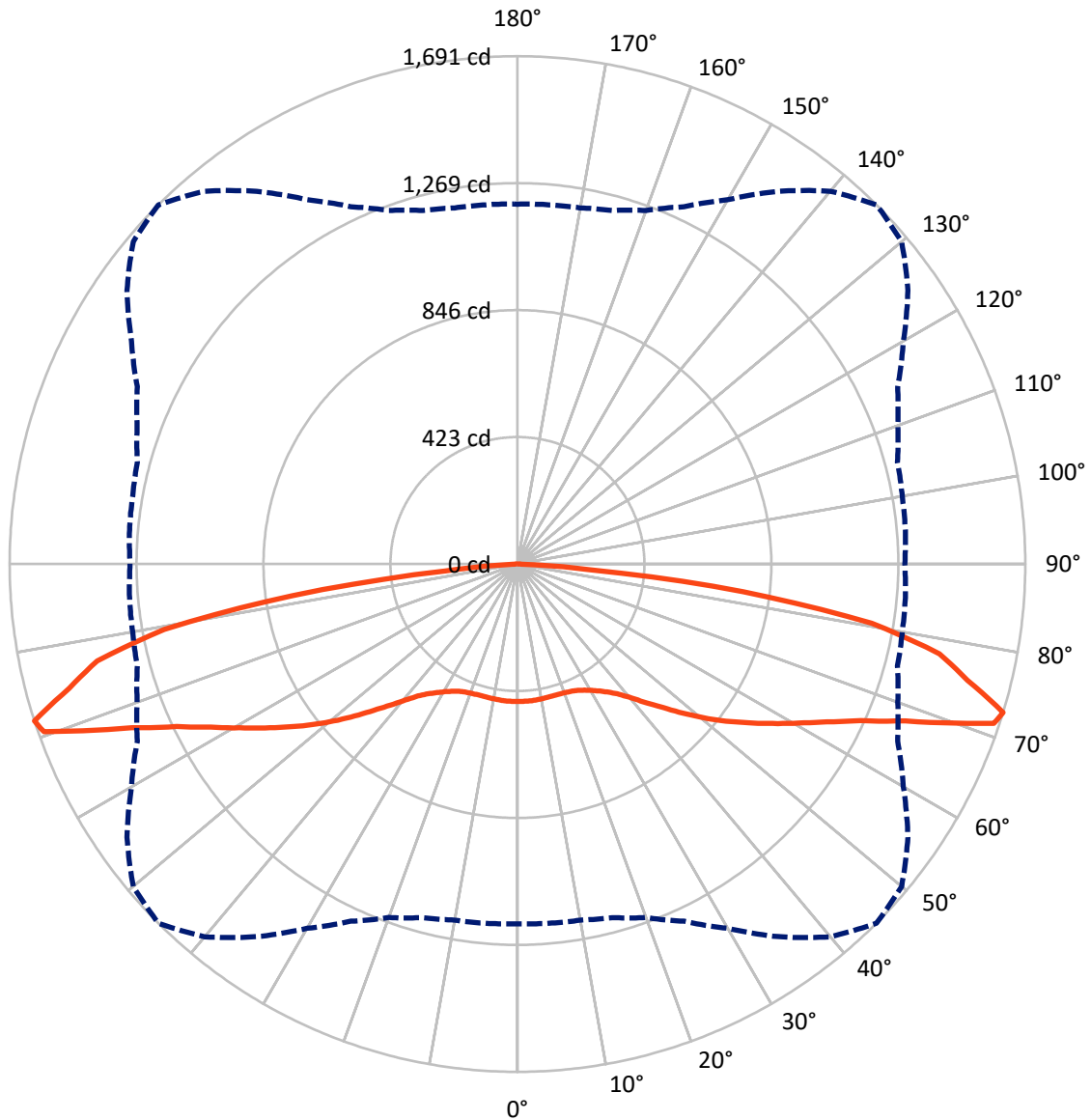
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 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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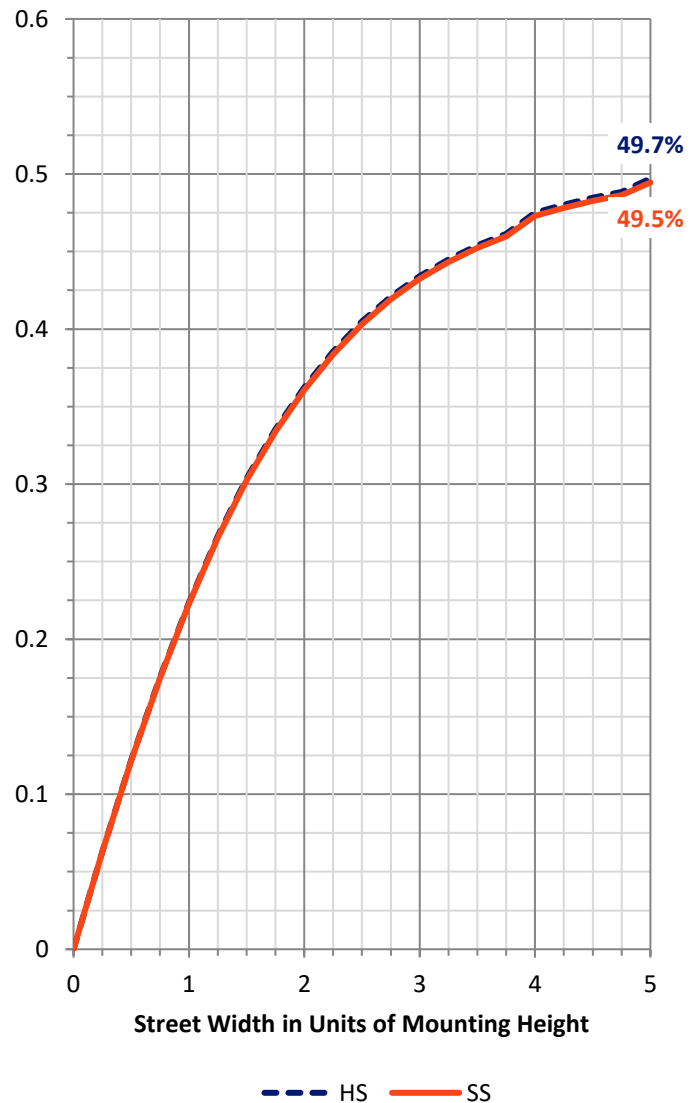
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2415.9	0.0	2415.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2415.9	0.0	2415.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4831.8	0.0	4831.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	0.9
10°-20°	129.1	2.7
20°-30°	216.1	4.5
30°-40°	329.5	6.8
40°-50°	526.1	10.9
50°-60°	808.9	16.7
60°-70°	1177.8	24.4
70°-80°	1326.8	27.5
80°-90°	273.9	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°	4831.8	100.0
0°-180°	4831.8	100.0



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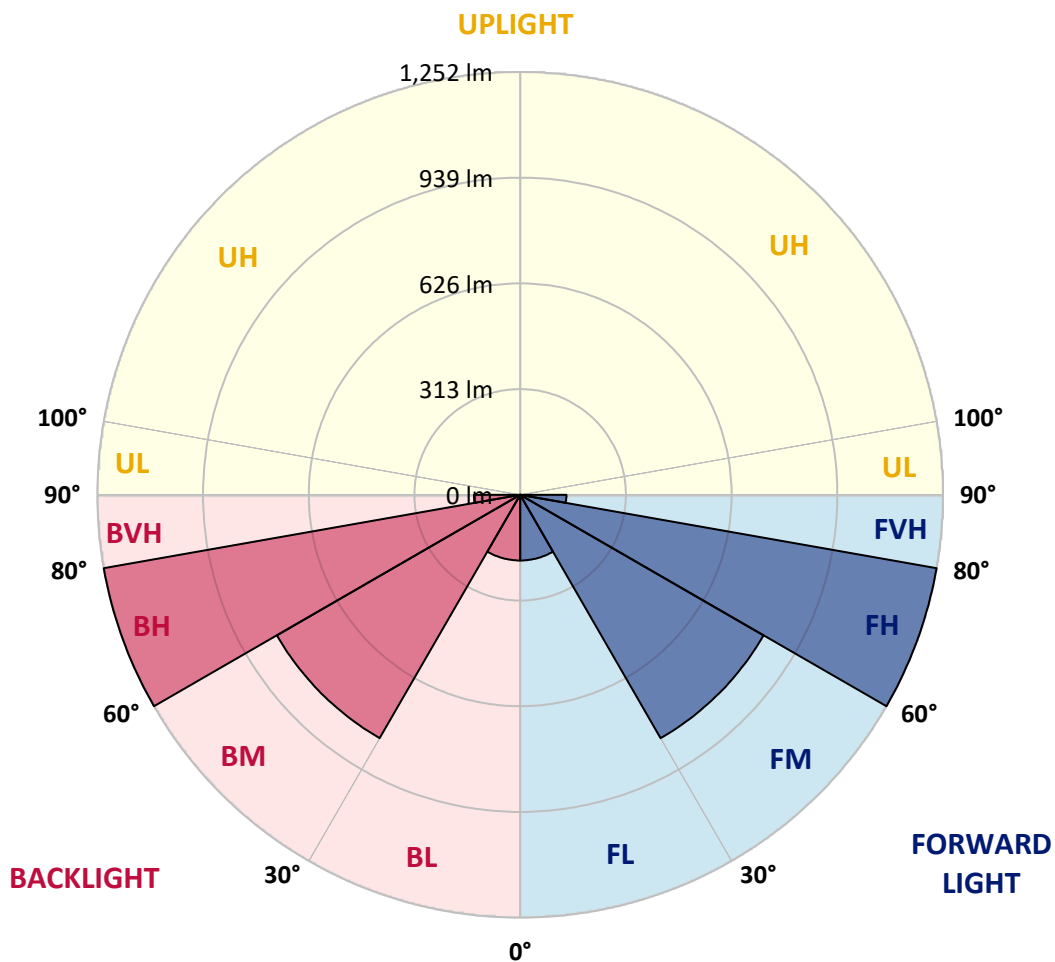
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	194.4	4.0			
FM (30°-60°)	832.3	17.2			
FH (60°-80°)	1252.3	25.9			G1/1800
FVH (80°-90°)	136.9	2.8			G2/225
BL (0°-30°)	194.4	4.0	B1/500		
BM (30°-60°)	832.3	17.2	B1/1000		
BH (60°-80°)	1252.3	25.9	B3/2500		G1/1800
BVH (80°-90°)	136.9	2.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8
2.5°	458.6	458.8	458.7	458.4	458.6	458.4	458.2	458.0	457.2	457.7	458.4
5°	458.6	458.3	458.2	458.1	458.1	458.4	458.0	457.7	457.6	457.8	457.4
7.5°	458.4	457.8	457.6	457.4	457.6	457.7	457.3	456.8	457.2	456.8	456.3
10°	457.6	457.2	457.3	456.8	456.9	456.8	456.3	455.9	456.2	455.8	455.2
12.5°	457.8	457.2	457.0	456.8	456.7	456.5	455.9	455.3	455.4	455.2	454.5
15°	457.8	457.4	457.3	456.8	456.6	456.4	455.6	455.4	455.4	455.0	454.3
17.5°	458.1	457.8	457.8	457.2	456.9	456.8	455.9	455.5	455.9	455.2	454.6
20°	458.8	458.6	458.7	458.3	457.8	457.8	457.2	456.9	457.0	456.9	455.5
22.5°	460.4	460.4	460.6	460.5	460.4	460.5	460.0	460.0	460.1	460.1	458.9
25°	464.6	464.5	464.8	464.8	464.9	465.8	465.4	465.3	465.9	465.9	464.8
27.5°	472.8	472.5	472.8	473.0	473.6	474.8	474.5	474.9	475.9	475.7	474.6
30°	482.1	481.8	482.5	483.3	483.8	485.6	484.8	486.6	487.5	488.3	487.6
32.5°	495.8	495.8	497.0	497.4	498.6	500.4	500.6	502.1	503.2	504.5	503.6
35°	514.0	513.8	514.6	515.6	517.0	518.6	519.2	521.2	523.0	523.9	522.2
37.5°	541.8	540.5	542.1	542.6	543.8	544.2	545.9	548.5	550.4	550.1	549.0
40°	579.6	579.3	578.7	578.0	579.7	580.4	580.4	583.8	586.8	586.3	586.2
42.5°	623.6	622.5	621.8	621.8	622.8	623.0	627.0	629.5	631.6	632.2	631.6
45°	671.0	669.9	670.1	669.6	670.0	671.6	673.9	678.6	682.6	682.8	680.6
47.5°	722.0	718.4	721.2	717.2	719.6	720.9	726.6	733.4	740.5	741.8	739.9
50°	773.6	773.2	772.9	772.2	773.3	776.1	783.0	793.8	800.6	805.2	802.2
52.5°	830.0	828.1	827.2	826.0	827.1	832.6	842.3	851.7	864.0	869.2	865.0
55°	885.0	884.3	881.0	880.9	883.3	891.8	902.4	914.0	927.3	933.1	931.6
57.5°	941.4	937.8	936.8	935.2	940.0	948.0	961.1	981.8	995.6	1002.2	998.4
60°	996.6	993.8	991.7	991.2	994.5	1005.6	1024.4	1049.3	1066.4	1075.0	1068.9
62.5°	1055.9	1054.1	1051.6	1048.7	1055.6	1069.9	1093.2	1120.8	1146.0	1156.7	1147.4
65°	1129.6	1125.9	1123.1	1119.4	1125.1	1143.1	1172.4	1211.2	1245.0	1257.4	1250.9
67.5°	1207.3	1203.9	1204.1	1201.9	1212.0	1236.9	1274.7	1327.4	1372.8	1393.9	1381.5
70°	1275.2	1277.1	1277.6	1286.8	1304.3	1342.2	1405.1	1487.7	1556.5	1588.8	1575.5
71°	1255.2	1259.4	1265.8	1275.4	1305.6	1350.5	1436.2	1536.4	1618.4	1673.1	1654.7
72.5°	1198.4	1201.0	1204.3	1219.0	1253.0	1312.5	1400.8	1515.2	1620.7	1691.4	1670.2
75°	1116.4	1118.8	1120.0	1130.2	1161.2	1213.1	1293.9	1395.4	1488.5	1548.8	1542.8
77.5°	992.6	993.0	1001.8	1017.6	1052.5	1111.8	1196.9	1302.2	1389.7	1436.6	1406.8
80°	712.8	708.0	717.1	737.5	780.5	848.6	935.8	1056.0	1153.1	1196.9	1150.8
82.5°	271.2	285.9	309.0	342.7	357.3	433.0	514.2	584.9	666.7	758.1	735.2
85°	29.1	32.8	41.2	51.0	64.4	89.1	123.2	168.1	207.2	243.6	216.2
87.5°	10.8	11.1	12.4	14.3	14.6	15.2	16.2	18.9	17.6	15.2	12.3
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°	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8
2.5°	457.8	457.9	457.8	457.9	457.9	457.4	457.6	457.3
5°	457.7	457.3	457.4	457.6	457.4	457.7	457.3	457.6
7.5°	457.0	456.3	456.6	456.5	456.3	456.7	456.4	456.3
10°	455.8	454.8	455.2	455.0	454.9	455.0	455.0	455.0
12.5°	454.6	454.0	454.1	454.0	453.9	454.2	454.1	454.2
15°	454.4	453.4	453.2	453.0	453.1	453.4	453.4	453.8
17.5°	454.2	452.9	452.8	452.5	452.6	453.1	453.2	453.0
20°	454.9	453.9	453.6	453.4	453.2	453.9	453.8	453.8
22.5°	458.4	457.2	457.0	456.0	455.6	456.0	455.8	455.8
25°	464.2	462.6	462.1	460.7	459.7	459.7	459.3	459.1
27.5°	474.4	472.1	471.6	470.5	469.1	469.4	468.6	468.4
30°	486.3	484.2	482.5	480.8	479.2	478.6	477.7	477.6
32.5°	501.9	499.6	497.4	495.4	493.2	492.2	490.7	490.0
35°	521.0	518.0	515.4	514.0	511.7	510.6	509.6	510.8
37.5°	547.7	544.0	542.8	541.1	539.6	537.8	538.2	537.8
40°	584.7	581.4	580.1	577.2	576.8	574.8	576.0	574.8
42.5°	630.4	624.3	623.4	621.1	620.4	619.2	619.7	618.8
45°	680.1	674.7	673.7	670.0	670.1	667.5	668.5	668.5
47.5°	736.1	730.4	725.7	723.1	722.0	720.4	721.3	721.2
50°	793.8	786.1	780.9	775.7	773.4	774.1	772.3	775.3
52.5°	855.9	844.3	837.0	832.0	827.8	828.6	828.9	829.8
55°	920.0	905.4	894.7	888.2	884.3	884.6	885.7	886.8
57.5°	984.6	966.2	951.8	942.2	939.6	940.8	940.8	940.6
60°	1051.6	1029.6	1011.0	1000.0	997.8	997.1	1002.1	1000.4
62.5°	1123.5	1097.1	1077.8	1063.9	1060.6	1062.8	1067.3	1066.3
65°	1218.8	1182.2	1157.4	1143.6	1138.0	1140.4	1146.3	1146.0
67.5°	1341.8	1290.6	1257.8	1240.1	1236.0	1238.8	1242.1	1245.3
70°	1525.6	1452.5	1405.7	1367.3	1350.9	1347.7	1351.0	1351.1
71°	1590.3	1506.4	1431.8	1385.0	1358.0	1346.6	1347.4	1341.8
72.5°	1587.6	1484.2	1397.0	1347.9	1310.5	1301.4	1296.9	1290.1
75°	1480.6	1387.5	1311.8	1258.4	1222.2	1211.5	1203.6	1203.2
77.5°	1342.8	1274.0	1190.6	1134.0	1090.1	1072.2	1064.2	1064.0
80°	1079.4	976.5	915.5	881.4	828.4	813.0	796.9	790.8
82.5°	652.8	510.1	414.8	368.5	343.0	282.5	253.4	239.8
85°	152.0	108.0	74.4	48.8	35.2	28.0	21.5	19.0
87.5°	10.3	8.1	7.2	5.8	4.4	4.3	2.7	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)