

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: P180233

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180233  
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-F02-LED-E1-5XQ  
Description: ICON SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4726.1 lumens  
Efficiency: N/A  
Efficacy: 85.9 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

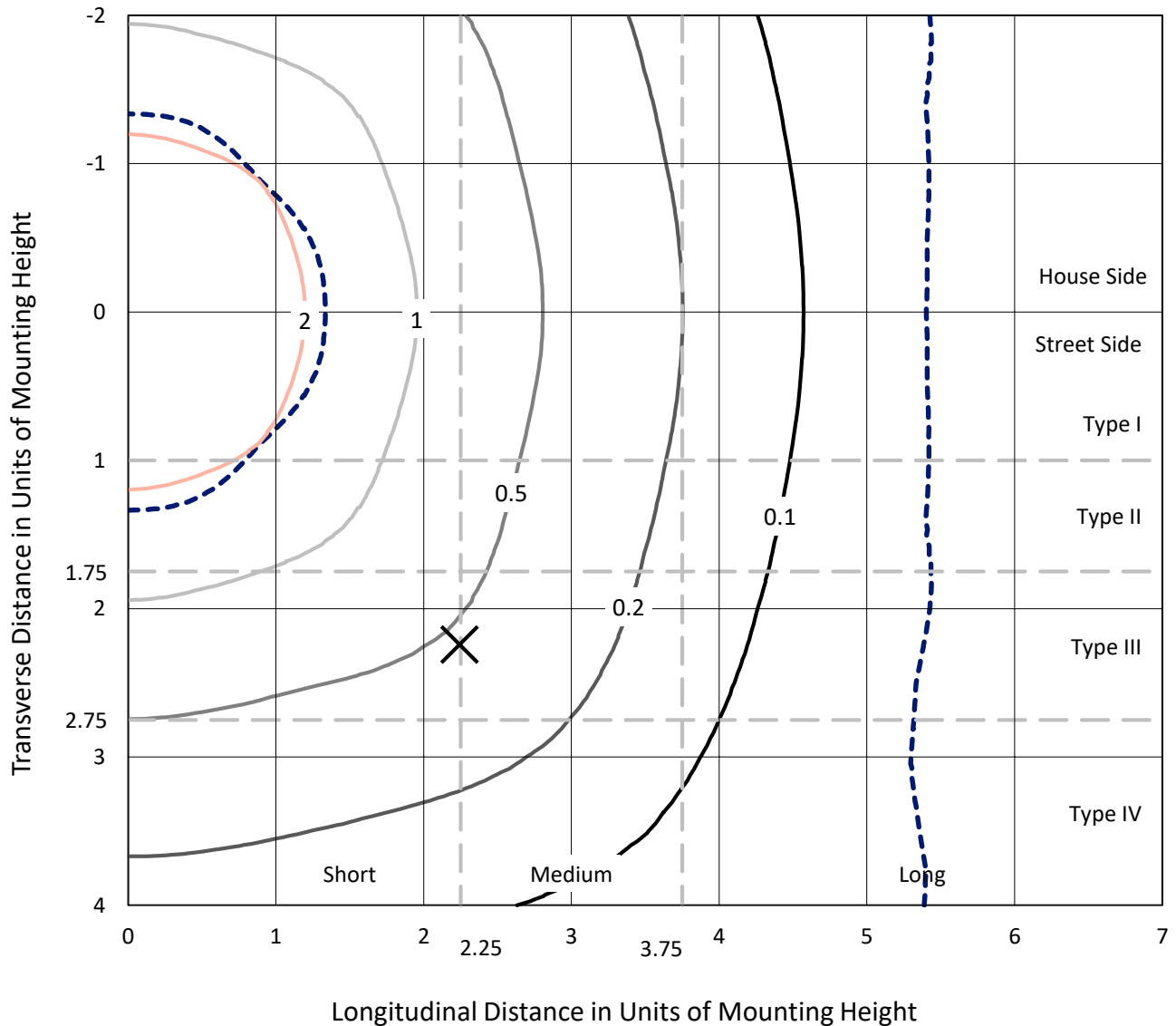
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

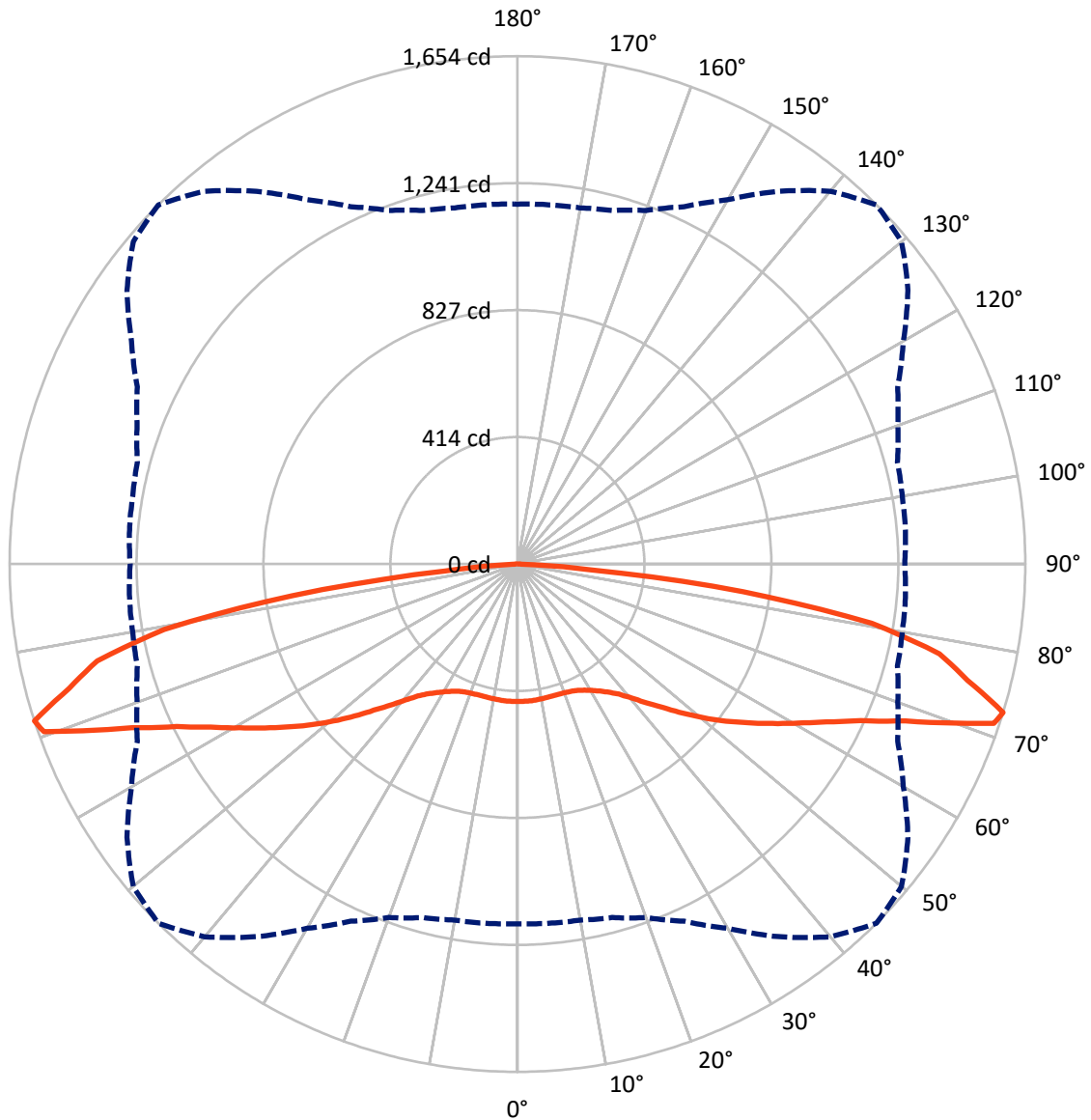
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 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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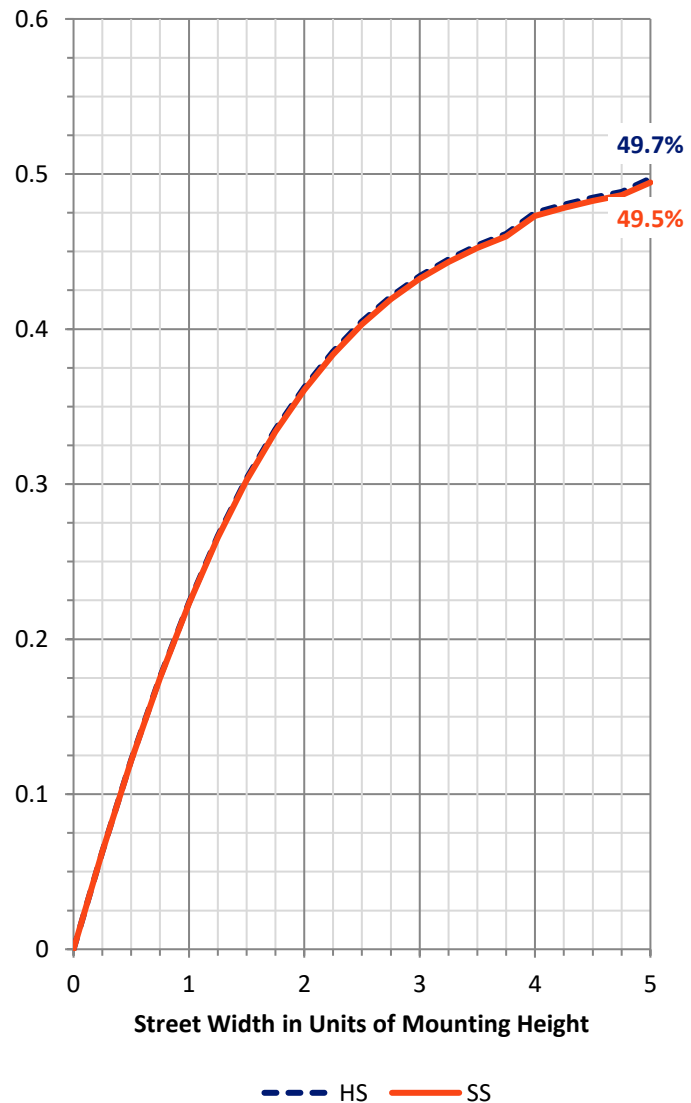
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2363.1	0.0	2363.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2363.1	0.0	2363.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4726.1	0.0	4726.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	0.9
10°-20°	126.2	2.7
20°-30°	211.4	4.5
30°-40°	322.3	6.8
40°-50°	514.6	10.9
50°-60°	791.2	16.7
60°-70°	1152.0	24.4
70°-80°	1297.8	27.5
80°-90°	267.9	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°	4726.1	100.0
0°-180°	4726.1	100.0



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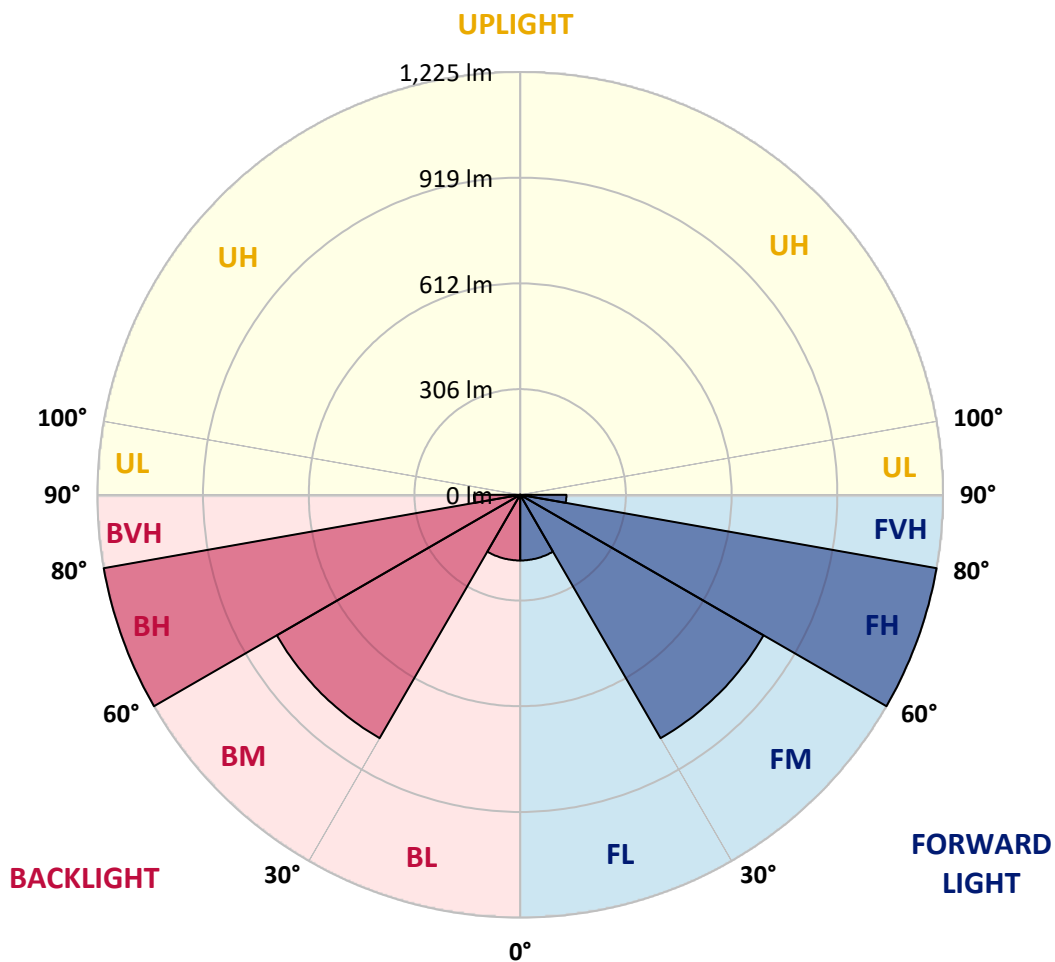
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	190.2	4.0			
FM (30°-60°)	814.0	17.2			
FH (60°-80°)	1224.9	25.9			G1/1800
FVH (80°-90°)	133.9	2.8			G2/225
BL (0°-30°)	190.2	4.0	B1/500		
BM (30°-60°)	814.0	17.2	B1/1000		
BH (60°-80°)	1224.9	25.9	B3/2500		G1/1800
BVH (80°-90°)	133.9	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°	447.8	447.8	447.8	447.8	447.8	447.8	447.8	447.8	447.8	447.8	447.8
2.5°	448.6	448.8	448.7	448.4	448.6	448.4	448.2	448.0	447.2	447.7	448.4
5°	448.6	448.3	448.2	448.0	448.0	448.4	448.0	447.7	447.6	447.8	447.4
7.5°	448.3	447.8	447.6	447.4	447.6	447.7	447.3	446.8	447.2	446.8	446.3
10°	447.6	447.2	447.3	446.8	446.9	446.8	446.3	445.9	446.2	445.8	445.2
12.5°	447.8	447.2	447.0	446.8	446.7	446.6	446.0	445.3	445.4	445.2	444.6
15°	447.8	447.4	447.3	446.8	446.7	446.4	445.7	445.4	445.4	445.1	444.3
17.5°	448.0	447.8	447.8	447.2	446.9	446.8	445.9	445.6	446.0	445.2	444.7
20°	448.8	448.5	448.6	448.3	447.8	447.8	447.2	446.9	447.0	446.9	445.6
22.5°	450.2	450.2	450.5	450.4	450.2	450.4	449.9	449.9	450.0	450.0	448.9
25°	454.5	454.4	454.6	454.6	454.8	455.6	455.2	455.1	455.7	455.7	454.6
27.5°	462.4	462.2	462.4	462.6	463.3	464.4	464.2	464.5	465.5	465.3	464.3
30°	471.6	471.3	472.0	472.7	473.2	474.9	474.2	476.0	476.9	477.6	476.9
32.5°	485.0	484.9	486.0	486.6	487.7	489.4	489.6	491.1	492.2	493.5	492.6
35°	502.8	502.5	503.4	504.2	505.6	507.2	507.8	509.8	511.6	512.4	510.8
37.5°	530.0	528.6	530.2	530.8	531.9	532.2	534.0	536.5	538.3	538.0	536.9
40°	567.0	566.7	566.0	565.3	567.0	567.7	567.6	571.0	574.0	573.5	573.4
42.5°	610.0	608.9	608.2	608.2	609.2	609.4	613.2	615.7	617.8	618.3	617.8
45°	656.3	655.2	655.5	655.0	655.3	657.0	659.2	663.8	667.8	667.8	665.7
47.5°	706.1	702.6	705.4	701.5	703.9	705.1	710.7	717.4	724.3	725.6	723.7
50°	756.6	756.2	756.0	755.3	756.4	759.1	765.9	776.4	783.1	787.6	784.6
52.5°	811.8	810.0	809.1	807.9	809.0	814.3	823.9	833.0	845.0	850.1	846.0
55°	865.6	865.0	861.8	861.6	864.0	872.3	882.7	894.0	907.0	912.7	911.2
57.5°	920.8	917.2	916.2	914.8	919.5	927.3	940.0	960.3	973.8	980.3	976.6
60°	974.8	972.1	970.0	969.5	972.7	983.6	1002.0	1026.4	1043.1	1051.5	1045.5
62.5°	1032.8	1031.0	1028.6	1025.7	1032.6	1046.5	1069.3	1096.3	1120.9	1131.4	1122.3
65°	1104.8	1101.3	1098.6	1094.9	1100.6	1118.1	1146.7	1184.7	1217.8	1230.0	1223.5
67.5°	1180.9	1177.6	1177.8	1175.6	1185.5	1209.9	1246.8	1298.4	1342.8	1363.4	1351.3
70°	1247.2	1249.1	1249.6	1258.7	1275.8	1312.9	1374.3	1455.2	1522.4	1554.0	1541.0
71°	1227.7	1231.8	1238.1	1247.5	1277.0	1321.0	1404.8	1502.8	1583.0	1636.5	1618.5
72.5°	1172.2	1174.7	1177.9	1192.3	1225.6	1283.8	1370.1	1482.1	1585.2	1654.4	1633.6
75°	1092.0	1094.3	1095.4	1105.5	1135.8	1186.6	1265.6	1364.9	1455.9	1514.9	1509.1
77.5°	970.9	971.2	979.9	995.4	1029.4	1087.5	1170.7	1273.8	1359.3	1405.2	1376.1
80°	697.2	692.5	701.4	721.4	763.4	830.1	915.3	1032.9	1127.9	1170.7	1125.7
82.5°	265.2	279.6	302.3	335.2	349.4	423.5	503.0	572.1	652.1	741.5	719.1
85°	28.5	32.1	40.2	49.9	63.0	87.2	120.5	164.4	202.7	238.3	211.5
87.5°	10.6	10.9	12.2	14.0	14.2	14.8	15.8	18.5	17.2	14.9	12.0
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°	447.8	447.8	447.8	447.8	447.8	447.8	447.8	447.8
2.5°	447.8	447.9	447.8	447.9	447.9	447.4	447.6	447.3
5°	447.7	447.3	447.4	447.6	447.4	447.7	447.3	447.6
7.5°	447.0	446.3	446.6	446.6	446.3	446.7	446.4	446.3
10°	445.8	444.8	445.3	445.0	444.9	445.0	445.0	445.0
12.5°	444.7	444.1	444.2	444.1	444.0	444.3	444.2	444.3
15°	444.4	443.4	443.4	443.1	443.2	443.5	443.4	443.8
17.5°	444.2	443.0	442.8	442.6	442.7	443.2	443.3	443.1
20°	445.0	444.0	443.7	443.4	443.4	443.9	443.8	443.8
22.5°	448.4	447.2	447.0	446.0	445.7	446.0	445.8	445.8
25°	454.0	452.5	452.0	450.6	449.6	449.6	449.3	449.0
27.5°	464.0	461.8	461.3	460.2	458.8	459.0	458.3	458.2
30°	475.6	473.7	472.0	470.3	468.8	468.1	467.2	467.1
32.5°	490.9	488.6	486.6	484.6	482.3	481.5	480.0	479.2
35°	509.6	506.6	504.1	502.8	500.6	499.4	498.4	499.6
37.5°	535.7	532.1	530.9	529.3	527.8	526.0	526.4	526.0
40°	571.9	568.7	567.4	564.6	564.2	562.2	563.4	562.2
42.5°	616.6	610.6	609.8	607.6	606.8	605.7	606.2	605.3
45°	665.3	659.9	658.9	655.4	655.5	652.9	653.8	653.8
47.5°	720.0	714.4	709.8	707.2	706.2	704.6	705.5	705.4
50°	776.4	768.9	763.8	758.8	756.5	757.1	755.4	758.4
52.5°	837.1	825.8	818.7	813.9	809.6	810.5	810.8	811.6
55°	899.9	885.6	875.2	868.8	865.0	865.2	866.4	867.4
57.5°	963.0	945.1	931.0	921.6	919.1	920.2	920.2	920.1
60°	1028.6	1007.0	988.8	978.2	976.0	975.3	980.1	978.6
62.5°	1098.9	1073.0	1054.2	1040.6	1037.4	1039.6	1043.9	1043.0
65°	1192.2	1156.4	1132.1	1118.6	1113.2	1115.4	1121.2	1120.9
67.5°	1312.4	1262.4	1230.3	1213.0	1209.0	1211.7	1215.0	1218.0
70°	1492.2	1420.8	1375.0	1337.4	1321.3	1318.2	1321.4	1321.6
71°	1555.5	1473.4	1400.4	1354.6	1328.2	1317.1	1318.0	1312.4
72.5°	1552.9	1451.8	1366.4	1318.5	1281.8	1272.9	1268.6	1261.8
75°	1448.2	1357.1	1283.1	1230.8	1195.5	1185.0	1177.3	1176.9
77.5°	1313.4	1246.2	1164.6	1109.2	1066.2	1048.8	1041.0	1040.7
80°	1055.8	955.1	895.5	862.2	810.2	795.3	779.4	773.5
82.5°	638.5	499.0	405.7	360.5	335.5	276.3	247.9	234.6
85°	148.7	105.6	72.8	47.8	34.4	27.4	21.0	18.6
87.5°	10.0	7.9	7.0	5.7	4.3	4.2	2.6	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)