

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: P180167

Luminaire Tested: **ICM-E02-LED-E1-5XQ-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180167  
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: ICM-E02-LED-E1-5XQ-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5404.3 lumens  
Efficiency: N/A  
Efficacy: 103.7 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

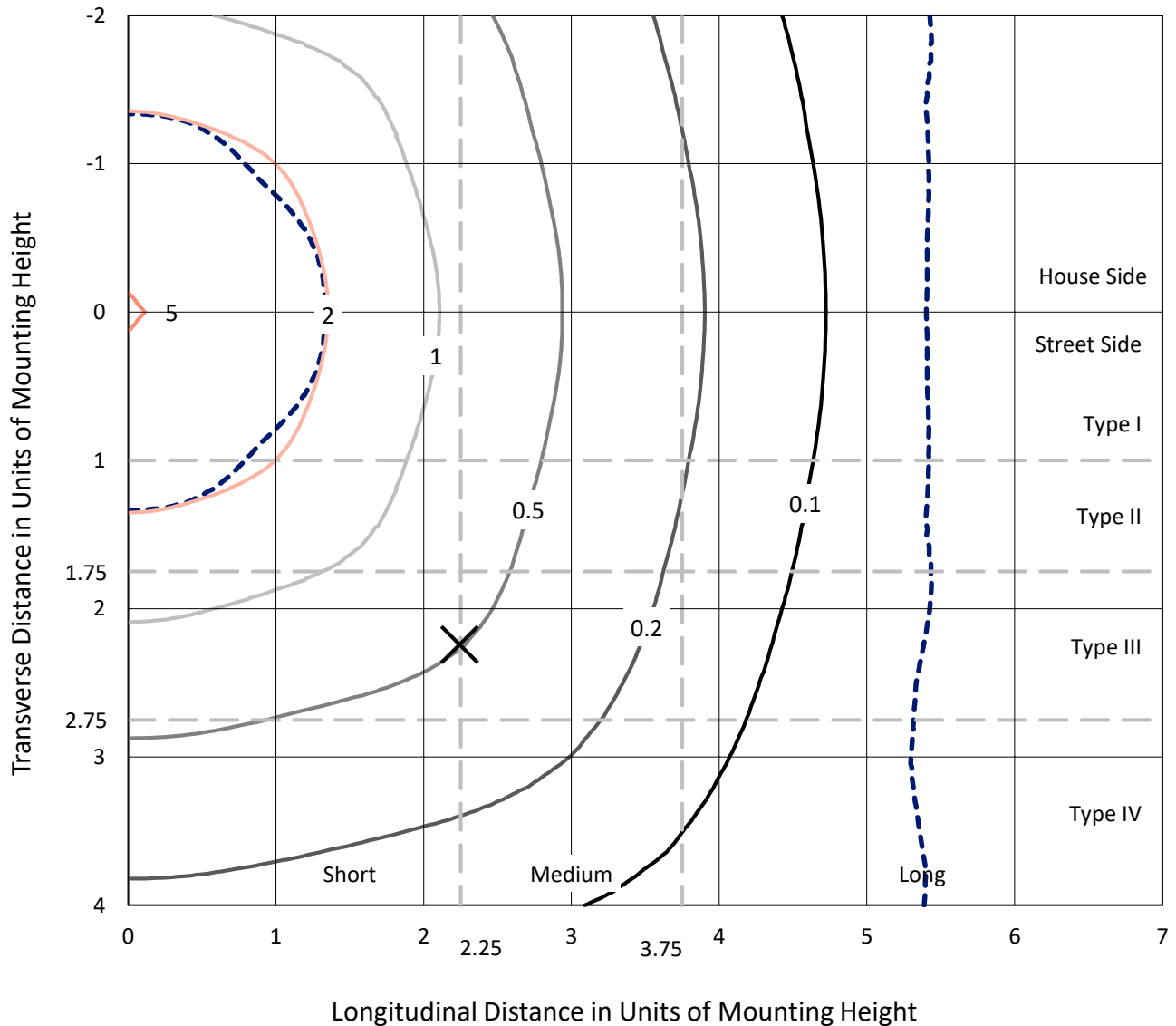
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

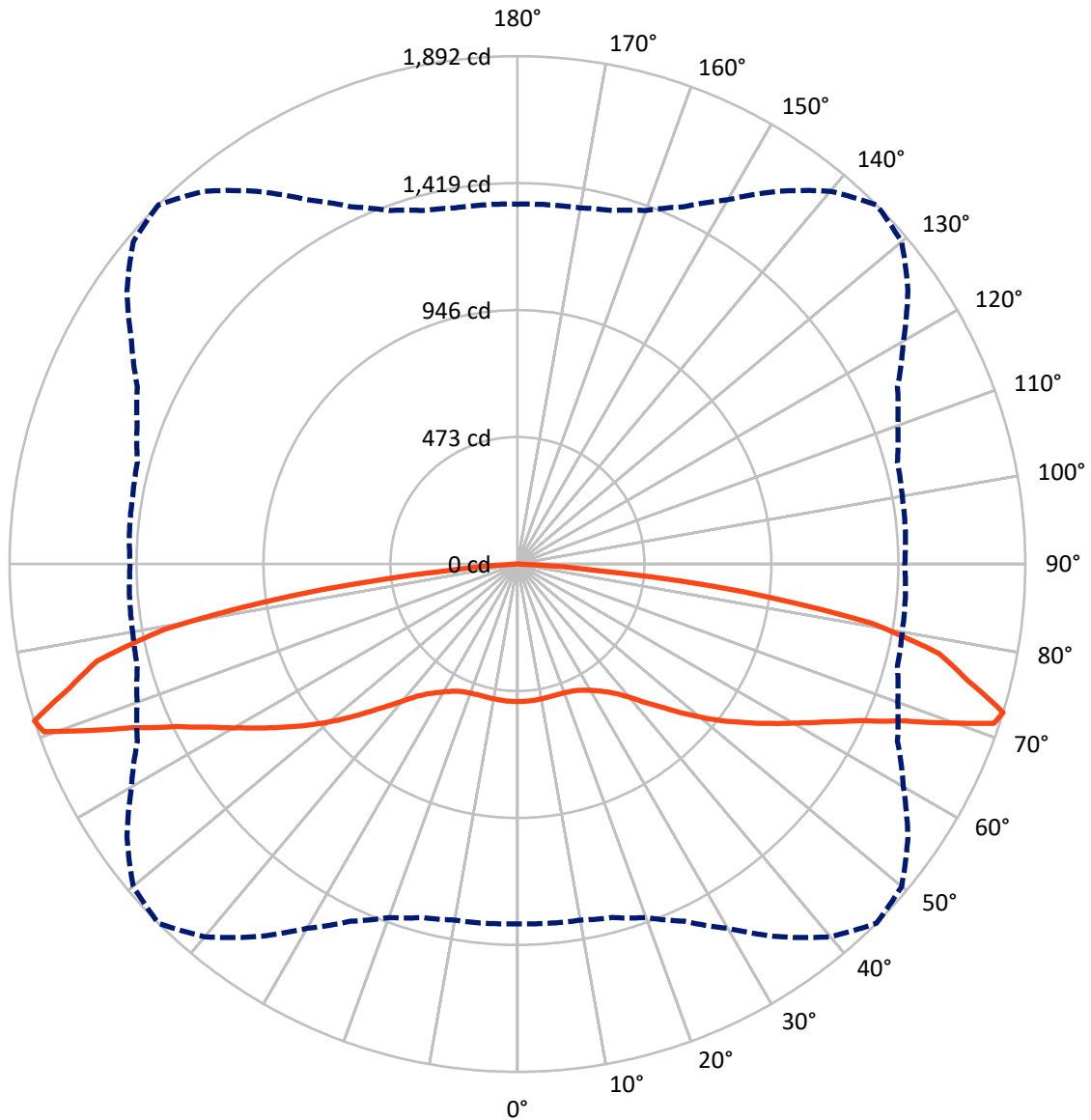
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 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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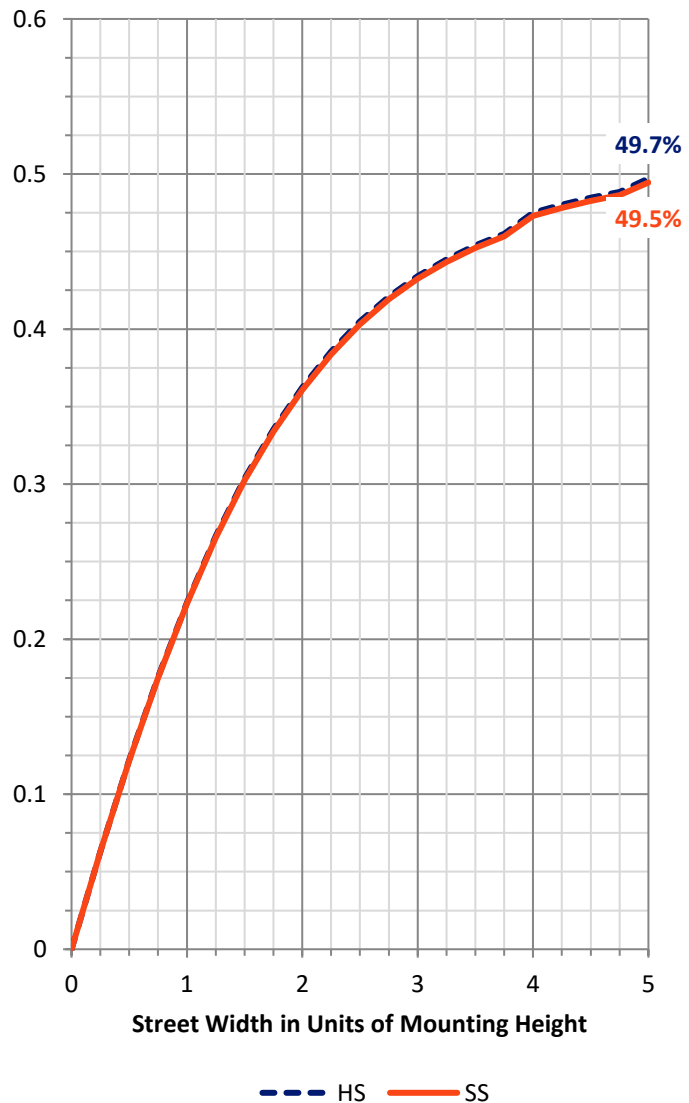
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2702.1	0.0	2702.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2702.1	0.0	2702.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5404.3	0.0	5404.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.8	0.9
10°-20°	144.4	2.7
20°-30°	241.7	4.5
30°-40°	368.5	6.8
40°-50°	588.4	10.9
50°-60°	904.8	16.7
60°-70°	1317.4	24.4
70°-80°	1484.0	27.5
80°-90°	306.3	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°	5404.3	100.0
0°-180°	5404.3	100.0



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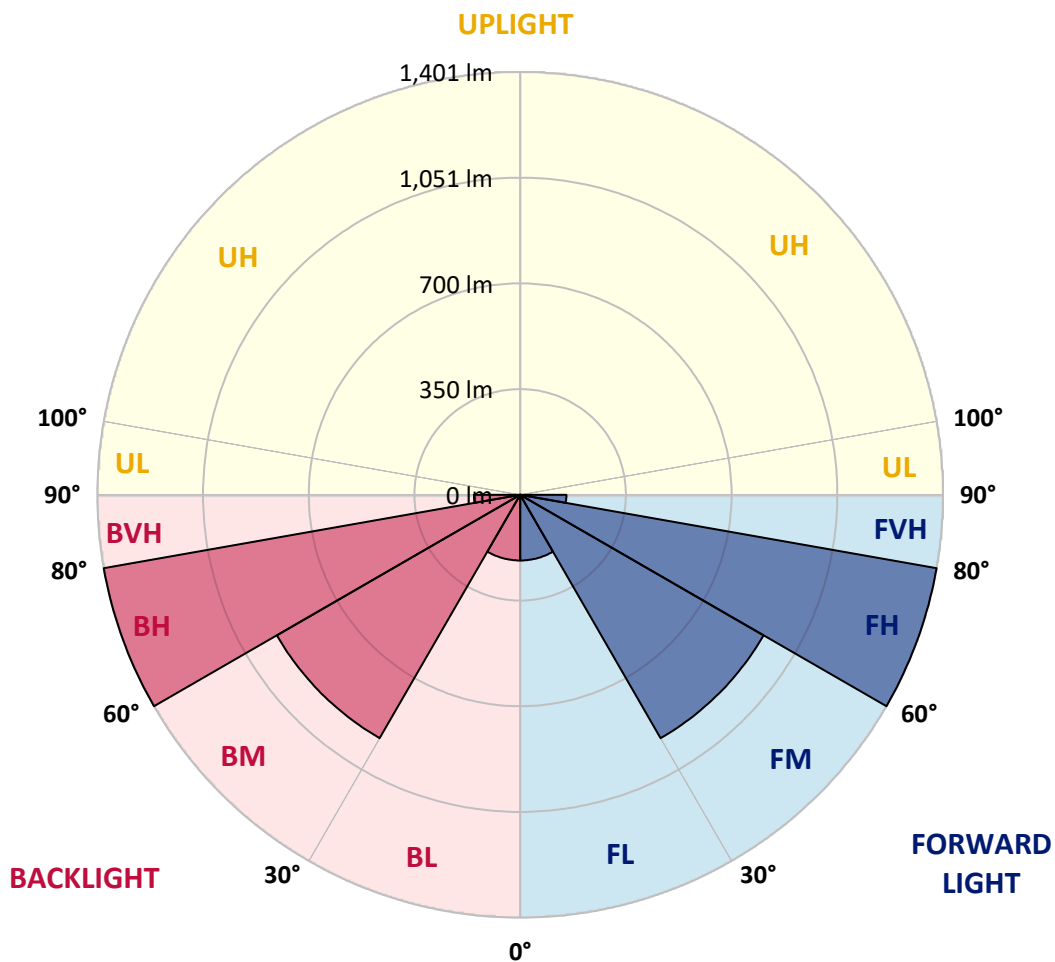
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.4	4.0			
FM (30°-60°)	930.9	17.2			
FH (60°-80°)	1400.7	25.9			G1/1800
FVH (80°-90°)	153.2	2.8			G2/225
BL (0°-30°)	217.4	4.0	B1/500		
BM (30°-60°)	930.9	17.2	B1/1000		
BH (60°-80°)	1400.7	25.9	B3/2500		G1/1800
BVH (80°-90°)	153.2	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°	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0
2.5°	512.9	513.1	513.0	512.7	512.9	512.7	512.5	512.4	511.4	511.9	512.7
5°	512.9	512.6	512.5	512.4	512.4	512.7	512.4	511.9	511.8	512.0	511.6
7.5°	512.6	512.0	511.8	511.6	511.8	511.9	511.4	510.9	511.4	510.9	510.3
10°	511.8	511.4	511.4	510.9	511.1	510.9	510.3	510.0	510.2	509.8	509.0
12.5°	512.0	511.4	511.3	510.9	510.8	510.6	510.0	509.2	509.4	509.0	508.4
15°	512.0	511.6	511.4	510.9	510.8	510.5	509.6	509.4	509.4	508.9	508.1
17.5°	512.4	512.0	512.0	511.4	511.1	510.9	510.0	509.5	509.9	509.0	508.5
20°	513.1	512.8	513.0	512.6	512.0	512.0	511.4	511.1	511.2	511.1	509.5
22.5°	514.9	514.9	515.2	515.0	514.9	515.0	514.4	514.4	514.6	514.6	513.3
25°	519.7	519.6	519.8	519.8	520.0	520.9	520.6	520.4	521.1	521.1	519.8
27.5°	528.7	528.5	528.7	529.0	529.8	531.1	530.8	531.2	532.3	532.0	530.9
30°	539.3	539.0	539.7	540.5	541.1	543.1	542.2	544.4	545.3	546.1	545.3
32.5°	554.5	554.5	555.8	556.4	557.6	559.6	559.9	561.6	562.9	564.3	563.4
35°	574.9	574.6	575.6	576.7	578.2	580.0	580.7	583.0	584.9	586.0	584.1
37.5°	606.1	604.5	606.3	606.9	608.2	608.6	610.6	613.4	615.5	615.3	614.0
40°	648.3	648.0	647.3	646.4	648.4	649.1	649.1	652.9	656.4	655.8	655.6
42.5°	697.5	696.3	695.4	695.4	696.6	696.8	701.2	704.1	706.4	707.1	706.4
45°	750.5	749.2	749.5	748.9	749.4	751.3	753.8	759.0	763.5	763.7	761.3
47.5°	807.4	803.4	806.6	802.2	804.8	806.3	812.7	820.3	828.3	829.7	827.5
50°	865.2	864.7	864.5	863.6	864.9	868.1	875.8	887.8	895.5	900.7	897.2
52.5°	928.4	926.2	925.2	923.8	925.1	931.2	942.1	952.6	966.3	972.1	967.4
55°	989.8	989.1	985.5	985.3	988.0	997.5	1009.3	1022.2	1037.1	1043.6	1042.0
57.5°	1053.0	1048.9	1047.7	1046.1	1051.4	1060.4	1075.0	1098.1	1113.6	1120.9	1116.7
60°	1114.7	1111.6	1109.2	1108.7	1112.3	1124.8	1145.7	1173.6	1192.8	1202.3	1195.5
62.5°	1181.0	1179.0	1176.2	1172.9	1180.7	1196.8	1222.7	1253.6	1281.8	1293.7	1283.4
65°	1263.4	1259.3	1256.2	1252.1	1258.4	1278.5	1311.3	1354.7	1392.6	1406.4	1399.1
67.5°	1350.3	1346.5	1346.8	1344.3	1355.5	1383.5	1425.7	1484.8	1535.5	1559.1	1545.2
70°	1426.2	1428.4	1428.9	1439.3	1458.8	1501.3	1571.5	1664.0	1740.9	1777.0	1762.2
71°	1403.9	1408.6	1415.7	1426.5	1460.2	1510.5	1606.3	1718.4	1810.2	1871.3	1850.8
72.5°	1340.5	1343.3	1347.0	1363.4	1401.5	1468.0	1566.7	1694.7	1812.7	1891.8	1868.1
75°	1248.7	1251.4	1252.7	1264.1	1298.8	1356.8	1447.2	1560.8	1664.8	1732.3	1725.6
77.5°	1110.1	1110.6	1120.6	1138.2	1177.2	1243.5	1338.7	1456.6	1554.4	1606.8	1573.5
80°	797.2	791.8	802.1	824.8	873.0	949.2	1046.6	1181.1	1289.8	1338.7	1287.2
82.5°	303.3	319.7	345.7	383.4	399.6	484.3	575.3	654.2	745.7	847.9	822.3
85°	32.6	36.7	46.0	57.1	72.1	99.7	137.8	188.1	231.8	272.4	241.9
87.5°	12.2	12.5	13.9	16.0	16.3	17.0	18.1	21.1	19.6	17.0	13.8
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°	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0
2.5°	512.0	512.2	512.0	512.2	512.2	511.6	511.8	511.4
5°	511.9	511.4	511.6	511.8	511.6	511.9	511.4	511.8
7.5°	511.3	510.3	510.7	510.7	510.4	510.8	510.5	510.3
10°	509.8	508.7	509.2	508.9	508.7	508.9	508.9	508.9
12.5°	508.5	507.7	507.9	507.7	507.6	508.1	507.9	508.1
15°	508.3	507.1	506.9	506.6	506.8	507.1	507.1	507.5
17.5°	507.9	506.5	506.4	506.1	506.2	506.8	507.0	506.6
20°	508.8	507.7	507.4	507.1	507.0	507.6	507.5	507.5
22.5°	512.7	511.3	511.2	510.0	509.6	510.0	509.8	509.8
25°	519.1	517.4	516.8	515.4	514.1	514.1	513.8	513.5
27.5°	530.6	528.1	527.5	526.1	524.7	524.9	524.1	523.9
30°	543.9	541.6	539.6	537.9	536.0	535.3	534.3	534.1
32.5°	561.3	558.8	556.4	554.0	551.5	550.5	548.8	548.0
35°	582.7	579.3	576.5	574.9	572.4	571.1	570.0	571.2
37.5°	612.6	608.5	607.1	605.2	603.5	601.5	602.0	601.5
40°	654.0	650.2	648.8	645.6	645.1	642.9	644.3	642.9
42.5°	705.0	698.2	697.3	694.7	693.9	692.6	693.1	692.2
45°	760.7	754.6	753.5	749.4	749.5	746.6	747.7	747.7
47.5°	823.3	816.9	811.7	808.7	807.6	805.8	806.7	806.5
50°	887.8	879.3	873.4	867.6	865.0	865.8	863.8	867.2
52.5°	957.2	944.4	936.2	930.6	925.8	926.8	927.1	928.1
55°	1029.0	1012.7	1000.8	993.5	989.1	989.4	990.7	991.8
57.5°	1101.3	1080.8	1064.6	1053.8	1051.0	1052.3	1052.3	1052.1
60°	1176.2	1151.5	1130.7	1118.5	1116.0	1115.3	1120.8	1118.9
62.5°	1256.6	1227.0	1205.5	1190.0	1186.2	1188.8	1193.7	1192.6
65°	1363.3	1322.3	1294.5	1279.1	1272.8	1275.4	1282.1	1281.8
67.5°	1500.8	1443.5	1406.9	1387.1	1382.5	1385.6	1389.3	1392.8
70°	1706.3	1624.7	1572.3	1529.3	1510.9	1507.4	1511.1	1511.3
71°	1778.7	1684.8	1601.4	1549.0	1518.9	1506.1	1507.1	1500.8
72.5°	1775.7	1660.1	1562.4	1507.7	1465.8	1455.5	1450.6	1443.0
75°	1656.1	1551.8	1467.2	1407.5	1367.1	1355.0	1346.2	1345.9
77.5°	1501.9	1424.9	1331.6	1268.4	1219.2	1199.3	1190.3	1190.1
80°	1207.4	1092.2	1023.9	985.9	926.5	909.4	891.3	884.5
82.5°	730.1	570.5	463.9	412.2	383.6	315.9	283.5	268.2
85°	170.0	120.7	83.3	54.7	39.3	31.3	24.1	21.2
87.5°	11.4	9.1	8.1	6.5	4.9	4.8	3.0	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)