

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: P180201

Luminaire Tested: **ICM-F05-LED-E1-5XQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180201
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-F05-LED-E1-5XQ-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10306.5 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

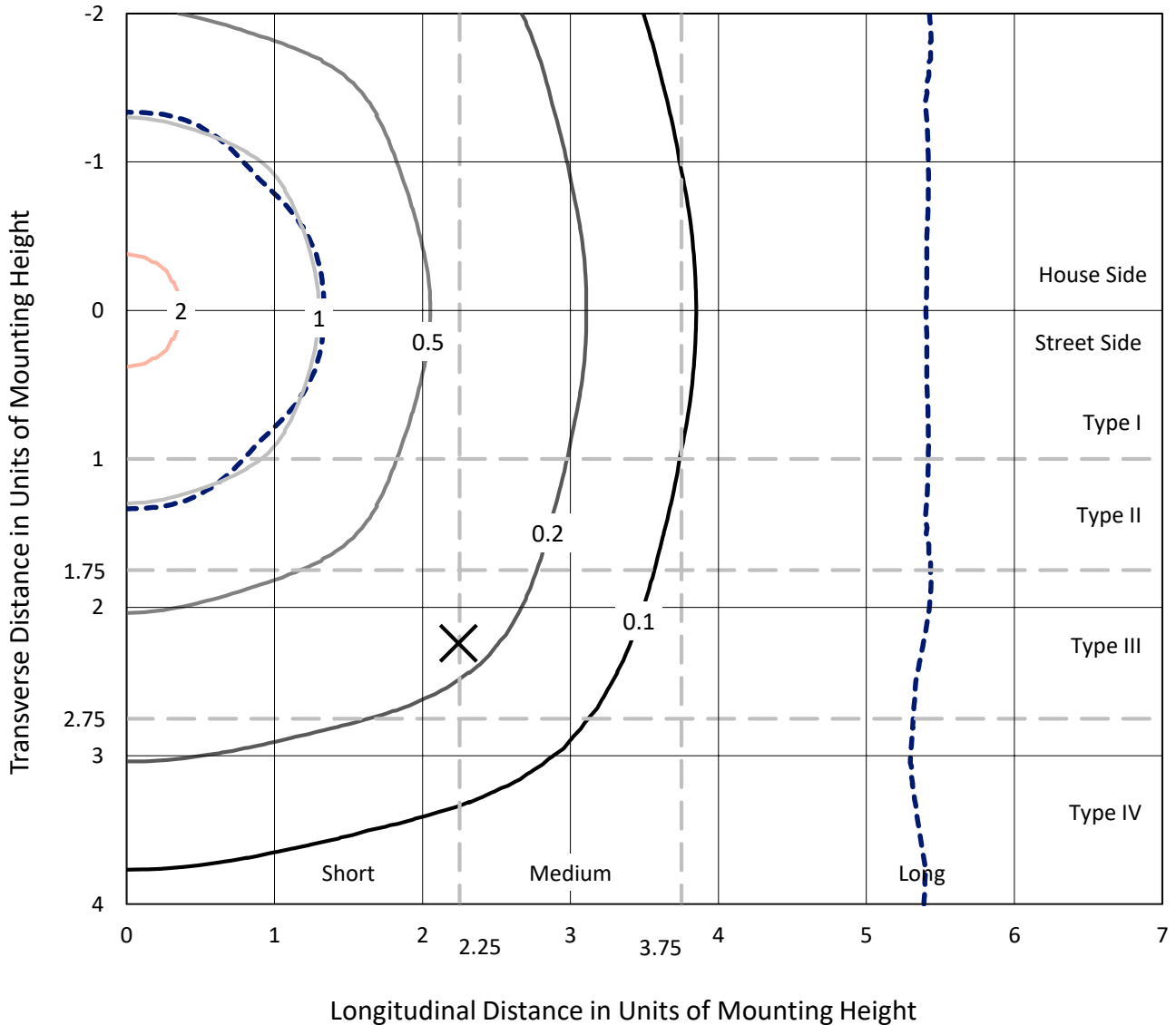
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

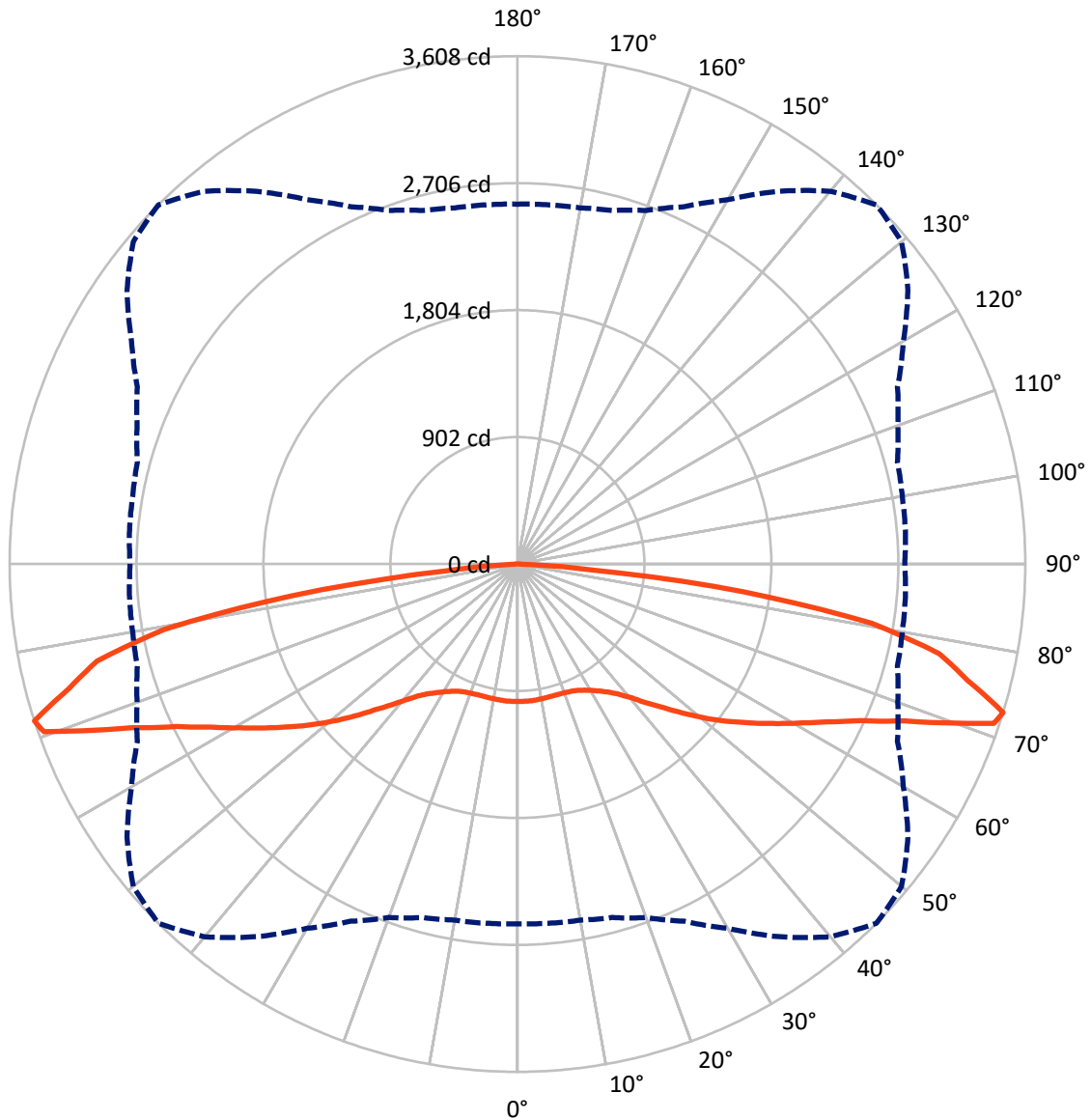
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.4 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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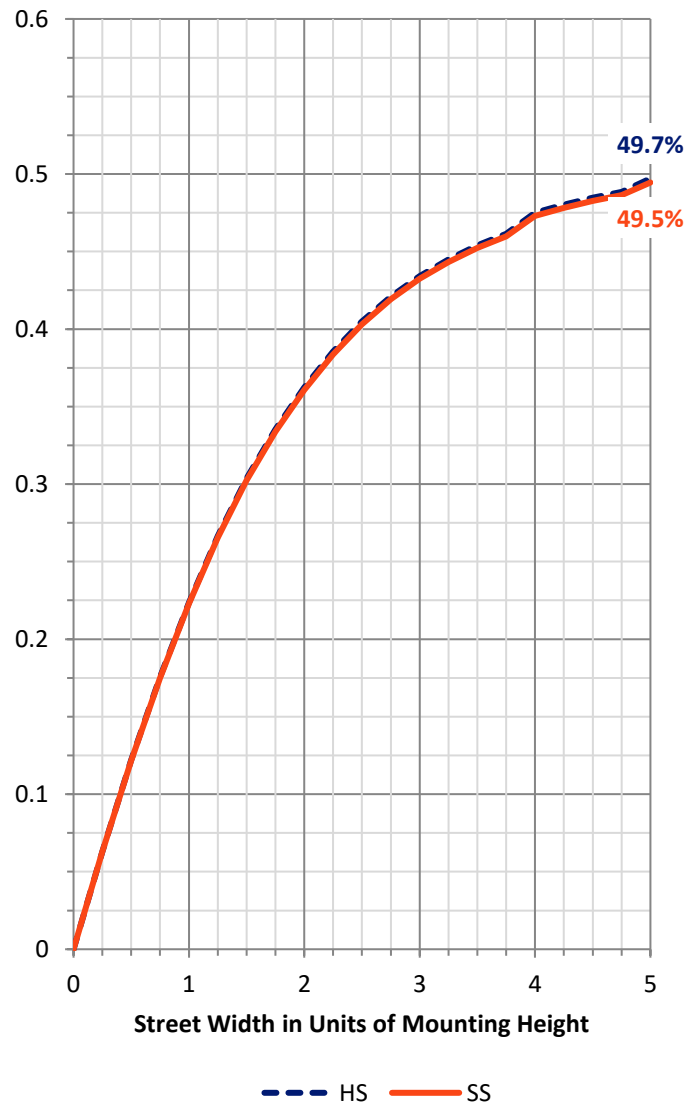
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5153.3	0.0	5153.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5153.3	0.0	5153.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	10306.5	0.0	10306.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	0.9
10°-20°	275.3	2.7
20°-30°	461.0	4.5
30°-40°	702.8	6.8
40°-50°	1122.2	10.9
50°-60°	1725.5	16.7
60°-70°	2512.3	24.4
70°-80°	2830.1	27.5
80°-90°	584.2	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°	10306.5	100.0
0°-180°	10306.5	100.0



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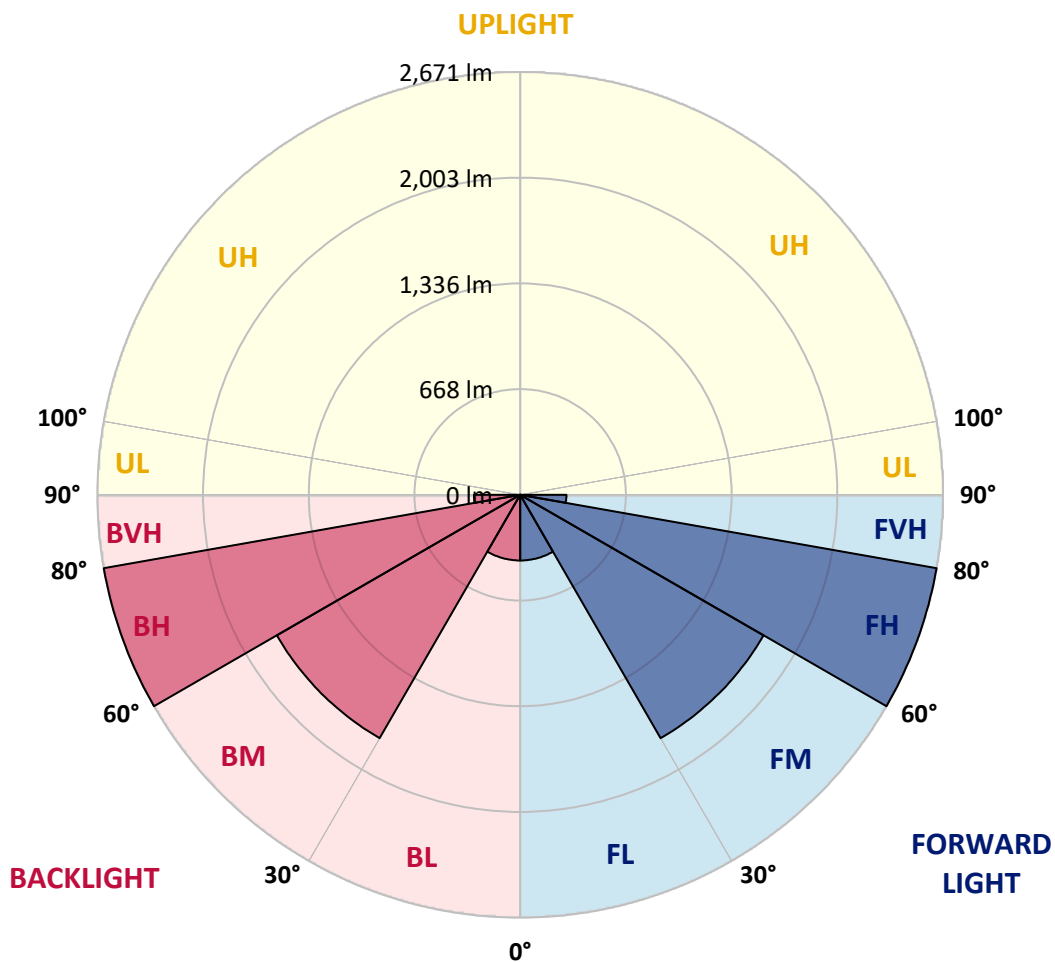
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.7	4.0			
FM	(30°-60°)	1775.2	17.2			
FH	(60°-80°)	2671.2	25.9			G2/5000
FVH	(80°-90°)	292.1	2.8			G3/500
BL	(0°-30°)	414.7	4.0	B1/500		
BM	(30°-60°)	1775.2	17.2	B2/2500		
BH	(60°-80°)	2671.2	25.9	B4/5000		G2/5000
BVH	(80°-90°)	292.1	2.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	976.5	976.5	976.5	976.5	976.5	976.5	976.5	976.5	976.5	976.5	976.5
2.5°	978.1	978.7	978.4	977.9	978.1	977.9	977.3	977.0	975.2	976.2	977.9
5°	978.1	977.6	977.3	977.0	977.0	977.9	977.0	976.2	976.0	976.6	975.7
7.5°	977.6	976.6	976.0	975.7	976.0	976.2	975.4	974.3	975.2	974.3	973.2
10°	976.0	975.2	975.4	974.3	974.6	974.3	973.3	972.5	973.0	972.2	970.8
12.5°	976.6	975.2	974.9	974.3	974.1	973.8	972.5	971.2	971.4	970.8	969.5
15°	976.6	975.7	975.4	974.3	974.1	973.6	971.9	971.4	971.4	970.6	968.9
17.5°	977.0	976.6	976.6	975.2	974.6	974.3	972.5	971.7	972.5	970.8	969.8
20°	978.7	978.1	978.4	977.6	976.5	976.6	975.2	974.6	974.9	974.6	971.7
22.5°	982.0	982.0	982.4	982.1	982.0	982.2	981.1	981.1	981.4	981.4	979.0
25°	991.1	990.9	991.4	991.4	991.6	993.5	992.8	992.5	993.8	993.8	991.4
27.5°	1008.4	1007.8	1008.4	1008.9	1010.2	1012.7	1012.2	1012.9	1015.2	1014.6	1012.5
30°	1028.4	1027.8	1029.2	1030.8	1031.8	1035.7	1034.1	1038.1	1040.0	1041.6	1040.0
32.5°	1057.5	1057.5	1059.9	1061.0	1063.4	1067.3	1067.8	1071.1	1073.5	1076.2	1074.2
35°	1096.4	1095.9	1097.8	1099.6	1102.7	1106.1	1107.5	1111.8	1115.5	1117.5	1114.1
37.5°	1155.8	1152.8	1156.4	1157.5	1159.9	1160.8	1164.5	1169.9	1174.0	1173.4	1171.0
40°	1236.3	1235.7	1234.4	1232.8	1236.6	1238.0	1238.0	1245.2	1251.7	1250.6	1250.3
42.5°	1330.3	1327.8	1326.2	1326.2	1328.4	1328.9	1337.3	1342.7	1347.4	1348.4	1347.4
45°	1431.3	1428.8	1429.4	1428.4	1429.1	1432.7	1437.5	1447.5	1456.2	1456.4	1451.8
47.5°	1539.9	1532.3	1538.2	1529.9	1535.0	1537.7	1549.8	1564.5	1579.5	1582.2	1578.2
50°	1650.1	1649.2	1648.7	1647.1	1649.5	1655.5	1670.3	1693.2	1707.8	1717.6	1711.1
52.5°	1770.4	1766.4	1764.5	1761.9	1764.3	1775.8	1796.7	1816.7	1842.9	1854.0	1845.0
55°	1887.6	1886.3	1879.3	1879.1	1884.2	1902.2	1924.9	1949.5	1977.9	1990.2	1987.1
57.5°	2008.2	2000.3	1998.2	1994.9	2005.1	2022.2	2050.0	2094.2	2123.7	2137.8	2129.7
60°	2125.9	2119.9	2115.4	2114.2	2121.3	2145.0	2184.9	2238.2	2274.6	2293.0	2280.1
62.5°	2252.2	2248.5	2243.1	2236.9	2251.7	2282.2	2331.9	2390.8	2444.6	2467.2	2447.5
65°	2409.4	2401.6	2395.6	2387.8	2400.0	2438.3	2500.7	2583.6	2655.7	2682.2	2668.1
67.5°	2575.3	2567.9	2568.5	2563.6	2585.2	2638.4	2718.9	2831.6	2928.2	2973.3	2946.8
70°	2720.0	2724.0	2725.1	2744.9	2782.2	2863.1	2997.0	3173.4	3320.0	3388.9	3360.6
71°	2677.3	2686.2	2700.0	2720.5	2784.9	2880.7	3063.5	3277.1	3452.1	3568.8	3529.6
72.5°	2556.3	2561.7	2568.8	2600.1	2672.7	2799.6	2987.9	3232.0	3457.0	3607.9	3562.5
75°	2381.4	2386.4	2388.9	2410.8	2476.9	2587.6	2759.9	2976.6	3175.1	3303.6	3290.9
77.5°	2117.2	2118.1	2136.9	2170.7	2244.9	2371.5	2553.1	2777.8	2964.4	3064.3	3000.9
80°	1520.4	1510.1	1529.6	1573.0	1664.9	1810.2	1996.0	2252.5	2459.6	2553.0	2454.8
82.5°	578.4	609.8	659.2	731.0	762.1	923.5	1096.9	1247.6	1422.1	1617.1	1568.2
85°	62.1	70.0	87.8	108.8	137.5	190.1	262.7	358.6	442.0	519.6	461.2
87.5°	23.2	23.7	26.5	30.5	31.1	32.4	34.6	40.3	37.5	32.4	26.2
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°	976.5	976.5	976.5	976.5	976.5	976.5	976.5	976.5
2.5°	976.5	976.8	976.5	976.8	976.8	975.7	976.0	975.4
5°	976.3	975.4	975.7	976.0	975.7	976.3	975.4	975.9
7.5°	974.9	973.2	973.8	973.8	973.2	974.1	973.5	973.2
10°	972.2	970.1	971.1	970.6	970.3	970.6	970.6	970.6
12.5°	969.8	968.4	968.8	968.4	968.2	968.9	968.8	968.9
15°	969.2	967.1	966.8	966.2	966.5	967.1	967.1	967.9
17.5°	968.7	966.0	965.7	965.2	965.4	966.5	966.8	966.2
20°	970.3	968.2	967.5	967.1	966.8	968.2	967.8	967.9
22.5°	977.9	975.2	974.9	972.8	971.9	972.8	972.2	972.2
25°	990.0	986.8	985.7	982.7	980.6	980.6	979.7	979.2
27.5°	1011.9	1007.1	1006.0	1003.5	1000.6	1001.1	999.4	999.2
30°	1037.3	1032.9	1029.2	1025.7	1022.1	1020.8	1018.9	1018.6
32.5°	1070.5	1065.7	1061.0	1056.8	1051.9	1050.0	1046.7	1045.1
35°	1111.3	1104.8	1099.4	1096.4	1091.5	1089.1	1087.0	1089.4
37.5°	1168.2	1160.4	1157.8	1154.2	1151.0	1147.2	1148.0	1147.2
40°	1247.1	1240.1	1237.4	1231.2	1230.3	1226.1	1228.8	1226.1
42.5°	1344.6	1331.6	1329.8	1324.8	1323.3	1320.8	1321.9	1320.0
45°	1450.7	1439.1	1436.9	1429.1	1429.4	1423.7	1425.9	1425.9
47.5°	1570.1	1558.0	1547.9	1542.3	1540.1	1536.6	1538.5	1538.2
50°	1693.2	1676.8	1665.7	1654.6	1649.8	1651.1	1647.3	1653.8
52.5°	1825.6	1800.9	1785.3	1774.8	1765.6	1767.5	1768.0	1769.9
55°	1962.5	1931.2	1908.5	1894.7	1886.3	1886.9	1889.3	1891.5
57.5°	2100.3	2061.0	2030.2	2009.8	2004.4	2006.7	2006.8	2006.5
60°	2243.1	2196.1	2156.4	2133.1	2128.3	2126.9	2137.5	2134.0
62.5°	2396.5	2340.0	2299.0	2269.2	2262.2	2267.1	2276.6	2274.4
65°	2599.8	2521.8	2468.9	2439.5	2427.5	2432.4	2445.0	2444.5
67.5°	2862.1	2752.9	2683.0	2645.2	2636.6	2642.4	2649.5	2656.3
70°	3254.2	3098.3	2998.4	2916.6	2881.5	2874.7	2881.8	2882.0
71°	3392.2	3213.1	3054.0	2954.1	2896.6	2872.3	2874.2	2862.1
72.5°	3386.4	3165.9	2979.7	2875.3	2795.4	2775.9	2766.4	2751.8
75°	3158.3	2959.6	2798.1	2684.1	2607.1	2584.2	2567.5	2566.5
77.5°	2864.2	2717.5	2539.6	2418.9	2325.2	2287.1	2270.1	2269.6
80°	2302.5	2082.9	1952.8	1880.1	1767.0	1734.3	1699.7	1686.8
82.5°	1392.4	1088.0	884.7	786.1	731.5	602.5	540.7	511.4
85°	324.4	230.3	158.8	104.3	75.1	59.6	45.9	40.5
87.5°	21.9	17.3	15.4	12.5	9.5	9.2	5.7	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)