

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: P180251

Luminaire Tested: **ICS-F04-LED-E1-5XQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180251  
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-F04-LED-E1-5XQ-8030  
Description: ICON SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (28) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7977.6 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G3

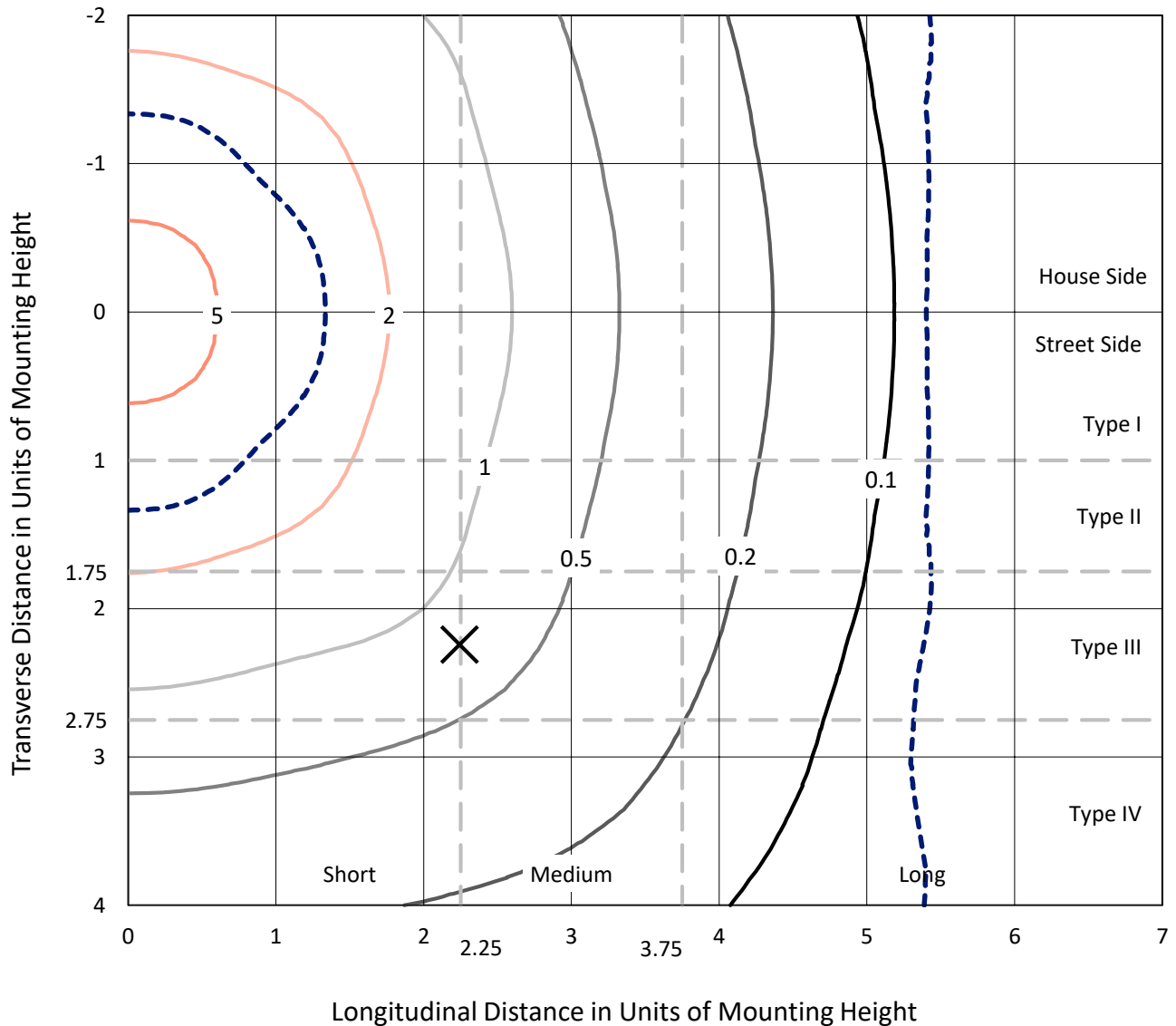
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

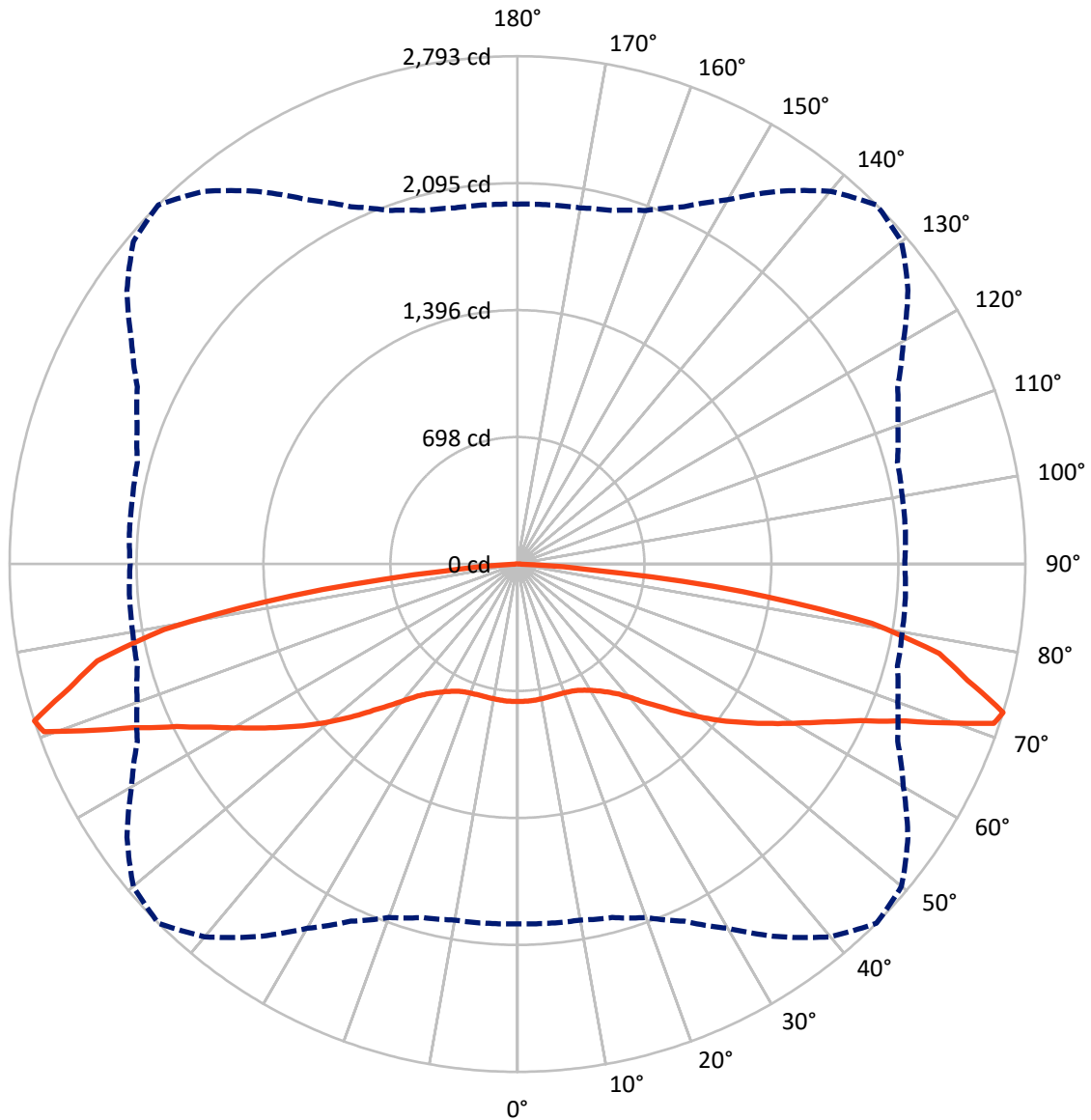
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 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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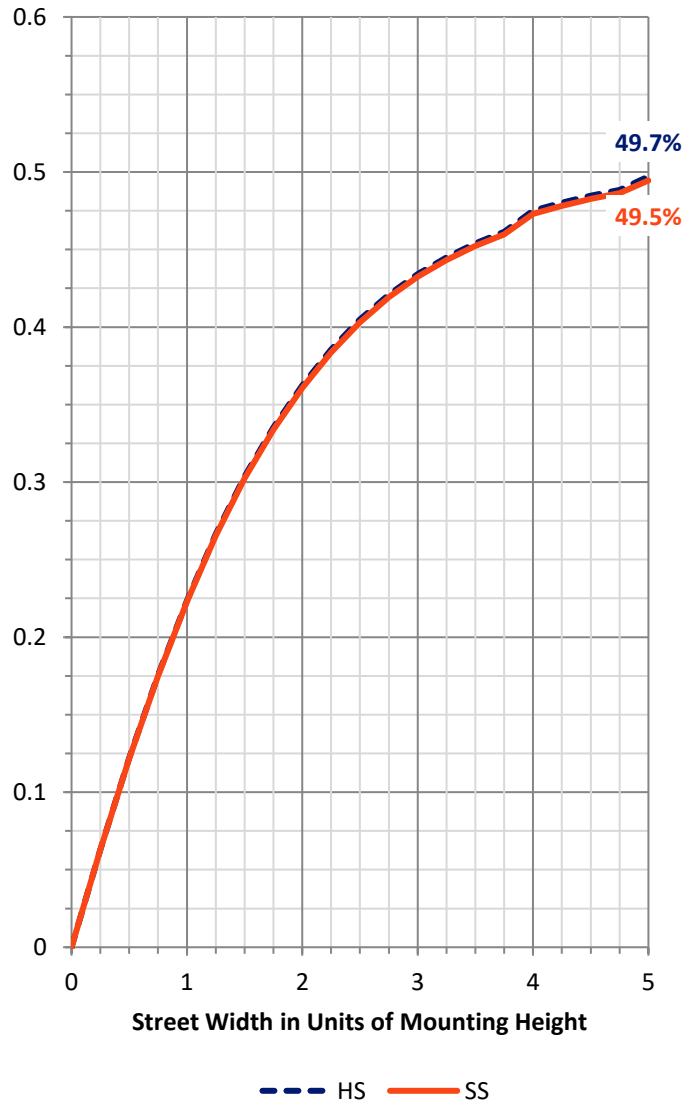
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3988.8	0.0	3988.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3988.8	0.0	3988.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7977.6	0.0	7977.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.0	0.9
10°-20°	213.1	2.7
20°-30°	356.8	4.5
30°-40°	544.0	6.8
40°-50°	868.6	10.9
50°-60°	1335.6	16.7
60°-70°	1944.6	24.4
70°-80°	2190.6	27.5
80°-90°	452.2	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°	7977.6	100.0
0°-180°	7977.6	100.0



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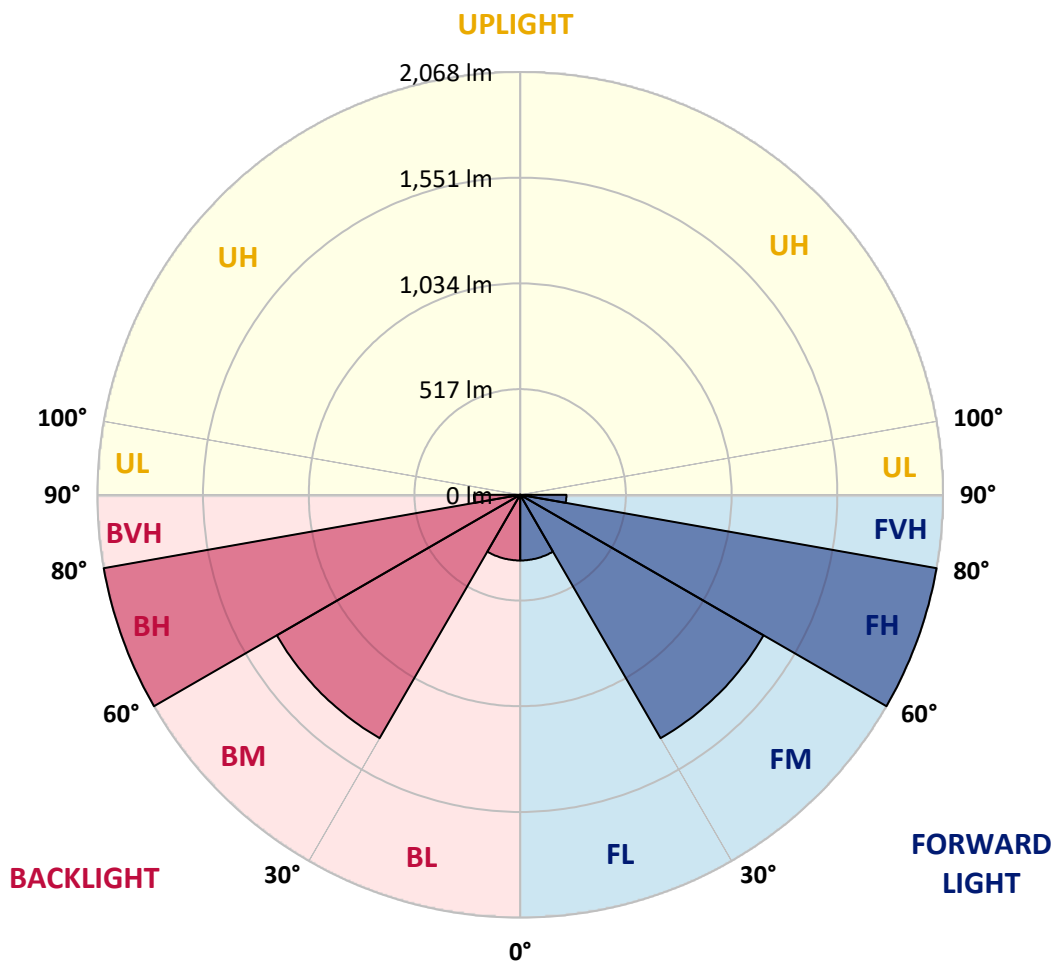
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	321.0	4.0			
FM	(30°-60°)	1374.1	17.2			
FH	(60°-80°)	2067.6	25.9			G2/5000
FVH	(80°-90°)	226.1	2.8			G3/500
BL	(0°-30°)	321.0	4.0	B1/500		
BM	(30°-60°)	1374.1	17.2	B2/2500		
BH	(60°-80°)	2067.6	25.9	B3/2500		G2/5000
BVH	(80°-90°)	226.1	2.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	755.9	755.9	755.9	755.9	755.9	755.9	755.9	755.9	755.9	755.9	755.9
2.5°	757.1	757.5	757.3	756.9	757.1	756.9	756.5	756.3	754.8	755.6	756.9
5°	757.2	756.7	756.5	756.3	756.3	756.9	756.3	755.7	755.4	755.8	755.2
7.5°	756.6	755.8	755.4	755.2	755.4	755.6	755.0	754.2	754.8	754.2	753.4
10°	755.4	754.8	755.0	754.2	754.4	754.2	753.4	752.7	753.2	752.5	751.5
12.5°	755.8	754.8	754.6	754.2	754.0	753.8	752.7	751.7	751.9	751.5	750.4
15°	755.8	755.2	755.0	754.2	754.0	753.6	752.3	751.9	751.9	751.2	750.0
17.5°	756.2	755.8	755.9	754.8	754.4	754.2	752.7	752.1	752.8	751.5	750.6
20°	757.6	757.1	757.3	756.7	755.8	755.9	754.8	754.4	754.6	754.4	752.1
22.5°	760.0	760.1	760.5	760.3	760.1	760.2	759.4	759.4	759.6	759.6	757.7
25°	767.2	766.9	767.4	767.4	767.6	769.0	768.4	768.2	769.2	769.2	767.4
27.5°	780.6	780.1	780.6	781.0	782.0	783.9	783.4	784.1	785.7	785.3	783.7
30°	796.0	795.6	796.6	797.9	798.7	801.6	800.4	803.6	805.0	806.2	805.0
32.5°	818.6	818.6	820.4	821.3	823.2	826.1	826.5	829.0	830.9	833.0	831.5
35°	848.6	848.2	849.7	851.2	853.5	856.2	857.2	860.6	863.5	865.0	862.2
37.5°	894.6	892.4	895.1	895.9	897.8	898.4	901.4	905.5	908.7	908.2	906.4
40°	957.0	956.6	955.5	954.2	957.2	958.2	958.2	963.9	968.8	968.0	967.8
42.5°	1029.7	1027.8	1026.6	1026.6	1028.2	1028.6	1035.2	1039.3	1042.9	1043.7	1042.9
45°	1107.8	1106.0	1106.4	1105.6	1106.2	1108.9	1112.7	1120.4	1127.1	1127.3	1123.8
47.5°	1191.9	1186.1	1190.6	1184.2	1188.1	1190.2	1199.6	1210.9	1222.6	1224.7	1221.6
50°	1277.2	1276.6	1276.2	1274.9	1276.8	1281.4	1292.9	1310.6	1321.9	1329.4	1324.4
52.5°	1370.4	1367.3	1365.8	1363.7	1365.6	1374.6	1390.7	1406.2	1426.4	1435.0	1428.1
55°	1461.1	1460.0	1454.6	1454.4	1458.4	1472.4	1490.0	1509.0	1531.0	1540.6	1538.0
57.5°	1554.4	1548.3	1546.6	1544.1	1552.1	1565.2	1586.8	1621.1	1643.8	1654.7	1648.4
60°	1645.5	1640.9	1637.4	1636.5	1641.9	1660.4	1691.3	1732.5	1760.7	1774.9	1764.9
62.5°	1743.4	1740.4	1736.2	1731.4	1742.9	1766.5	1805.0	1850.6	1892.2	1909.7	1894.5
65°	1865.0	1858.9	1854.3	1848.3	1857.6	1887.4	1935.6	1999.8	2055.6	2076.1	2065.2
67.5°	1993.3	1987.7	1988.1	1984.4	2001.0	2042.2	2104.6	2191.7	2266.5	2301.5	2281.0
70°	2105.4	2108.5	2109.4	2124.6	2153.4	2216.2	2319.8	2456.3	2569.8	2623.2	2601.2
71°	2072.4	2079.2	2089.9	2105.8	2155.5	2229.8	2371.2	2536.6	2672.0	2762.4	2732.0
72.5°	1978.7	1982.9	1988.3	2012.6	2068.8	2167.0	2312.7	2501.7	2675.8	2792.7	2757.5
75°	1843.2	1847.2	1849.1	1866.0	1917.2	2002.9	2136.3	2304.0	2457.6	2557.0	2547.2
77.5°	1638.8	1639.4	1654.1	1680.2	1737.6	1835.7	1976.2	2150.1	2294.6	2371.9	2322.8
80°	1176.8	1168.9	1184.0	1217.6	1288.7	1401.1	1544.9	1743.6	1903.9	1976.2	1900.1
82.5°	447.8	472.0	510.2	565.8	589.9	714.9	849.1	965.8	1100.8	1251.7	1213.8
85°	48.1	54.2	67.9	84.2	106.4	147.2	203.4	277.6	342.2	402.2	357.0
87.5°	18.0	18.4	20.5	23.6	24.0	25.1	26.8	31.2	29.0	25.1	20.3
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°	755.9	755.9	755.9	755.9	755.9	755.9	755.9	755.9
2.5°	755.9	756.1	755.9	756.1	756.1	755.3	755.5	755.0
5°	755.7	755.0	755.2	755.4	755.2	755.6	755.0	755.4
7.5°	754.6	753.4	753.8	753.8	753.4	754.0	753.6	753.3
10°	752.5	750.8	751.7	751.3	751.0	751.2	751.2	751.3
12.5°	750.6	749.6	749.8	749.6	749.4	750.0	749.8	750.0
15°	750.2	748.6	748.4	747.9	748.1	748.6	748.6	749.2
17.5°	749.8	747.7	747.5	747.1	747.3	748.1	748.3	747.9
20°	751.0	749.4	748.9	748.6	748.4	749.4	749.2	749.2
22.5°	756.9	754.8	754.6	752.9	752.3	752.9	752.5	752.5
25°	766.3	763.8	763.0	760.6	759.0	759.0	758.4	758.0
27.5°	783.2	779.5	778.7	776.7	774.5	774.9	773.6	773.4
30°	802.9	799.6	796.6	793.9	791.2	790.1	788.7	788.5
32.5°	828.6	824.8	821.3	817.9	814.2	812.7	810.2	808.9
35°	860.2	855.2	851.0	848.7	844.9	843.0	841.4	843.2
37.5°	904.3	898.2	896.1	893.4	890.9	888.0	888.6	888.0
40°	965.3	959.9	957.8	953.0	952.4	949.0	951.1	949.0
42.5°	1040.8	1030.7	1029.3	1025.5	1024.2	1022.4	1023.2	1021.8
45°	1122.9	1113.9	1112.3	1106.2	1106.4	1102.0	1103.7	1103.7
47.5°	1215.3	1205.9	1198.2	1193.8	1192.1	1189.4	1190.8	1190.6
50°	1310.6	1297.9	1289.3	1280.7	1277.0	1278.0	1275.1	1280.1
52.5°	1413.1	1394.0	1381.9	1373.8	1366.6	1368.1	1368.5	1370.0
55°	1519.0	1494.8	1477.2	1466.6	1460.1	1460.5	1462.4	1464.1
57.5°	1625.6	1595.4	1571.5	1555.6	1551.4	1553.3	1553.3	1553.1
60°	1736.2	1699.8	1669.1	1651.1	1647.4	1646.4	1654.5	1651.8
62.5°	1855.0	1811.3	1779.5	1756.5	1751.0	1754.8	1762.2	1760.4
65°	2012.4	1951.9	1911.0	1888.2	1879.0	1882.8	1892.6	1892.2
67.5°	2215.3	2130.9	2076.8	2047.4	2040.8	2045.4	2050.8	2056.0
70°	2518.8	2398.2	2320.9	2257.6	2230.4	2225.1	2230.6	2230.8
71°	2625.6	2487.1	2364.0	2286.6	2242.1	2223.3	2224.7	2215.4
72.5°	2621.3	2450.5	2306.5	2225.6	2163.7	2148.6	2141.3	2130.0
75°	2444.6	2290.8	2165.8	2077.6	2018.0	2000.2	1987.3	1986.6
77.5°	2217.0	2103.5	1965.7	1872.3	1799.8	1770.3	1757.1	1756.8
80°	1782.2	1612.2	1511.5	1455.3	1367.7	1342.4	1315.6	1305.6
82.5°	1077.8	842.2	684.8	608.5	566.3	466.4	418.5	395.9
85°	251.0	178.3	122.9	80.7	58.1	46.2	35.5	31.4
87.5°	17.0	13.3	11.9	9.6	7.3	7.1	4.4	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)