

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: P180243

Luminaire Tested: **ICS-F03-LED-E1-5XQ**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180243  
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-F03-LED-E1-5XQ  
Description: ICON SITE SMALL LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7089.2 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

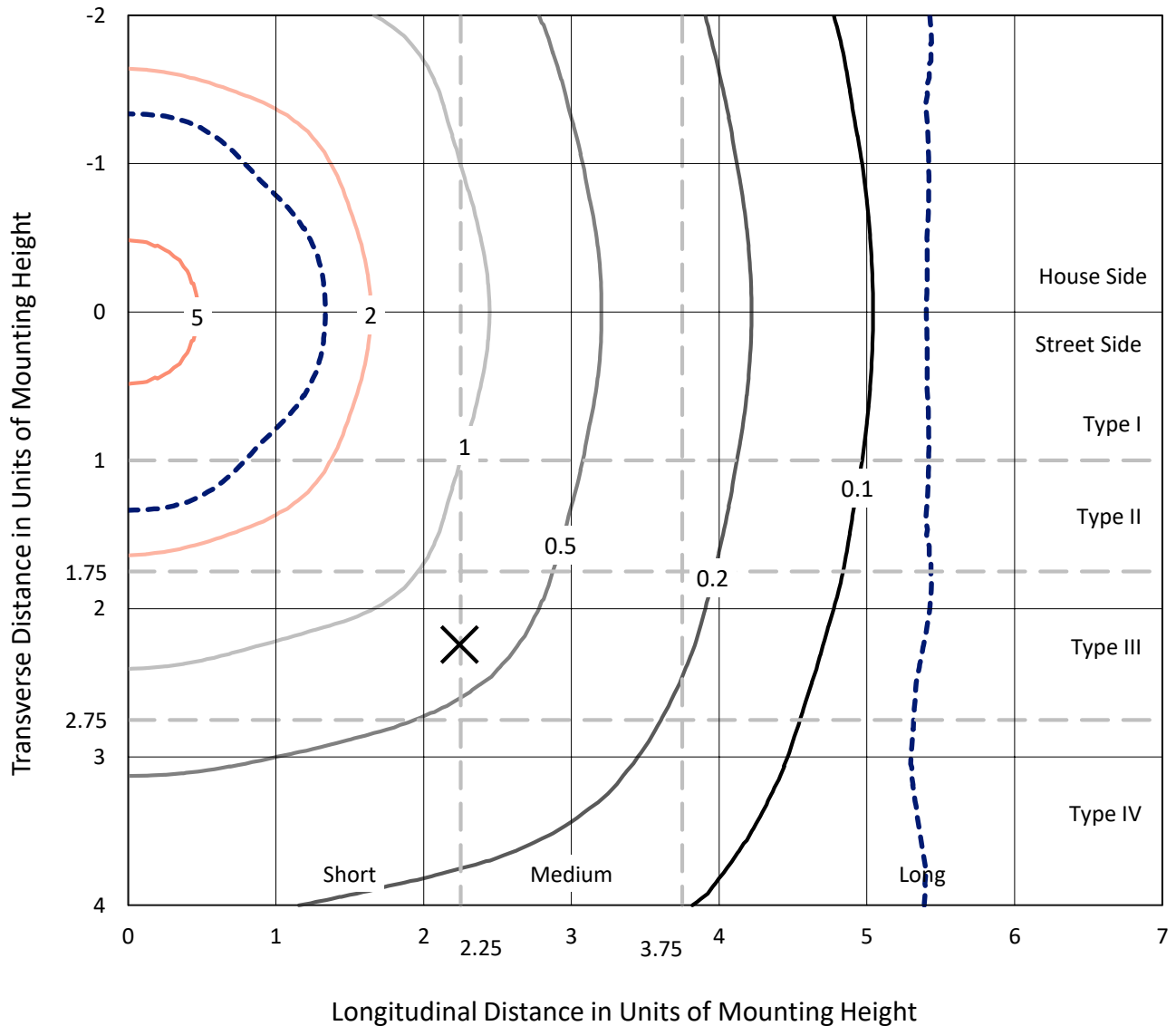
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

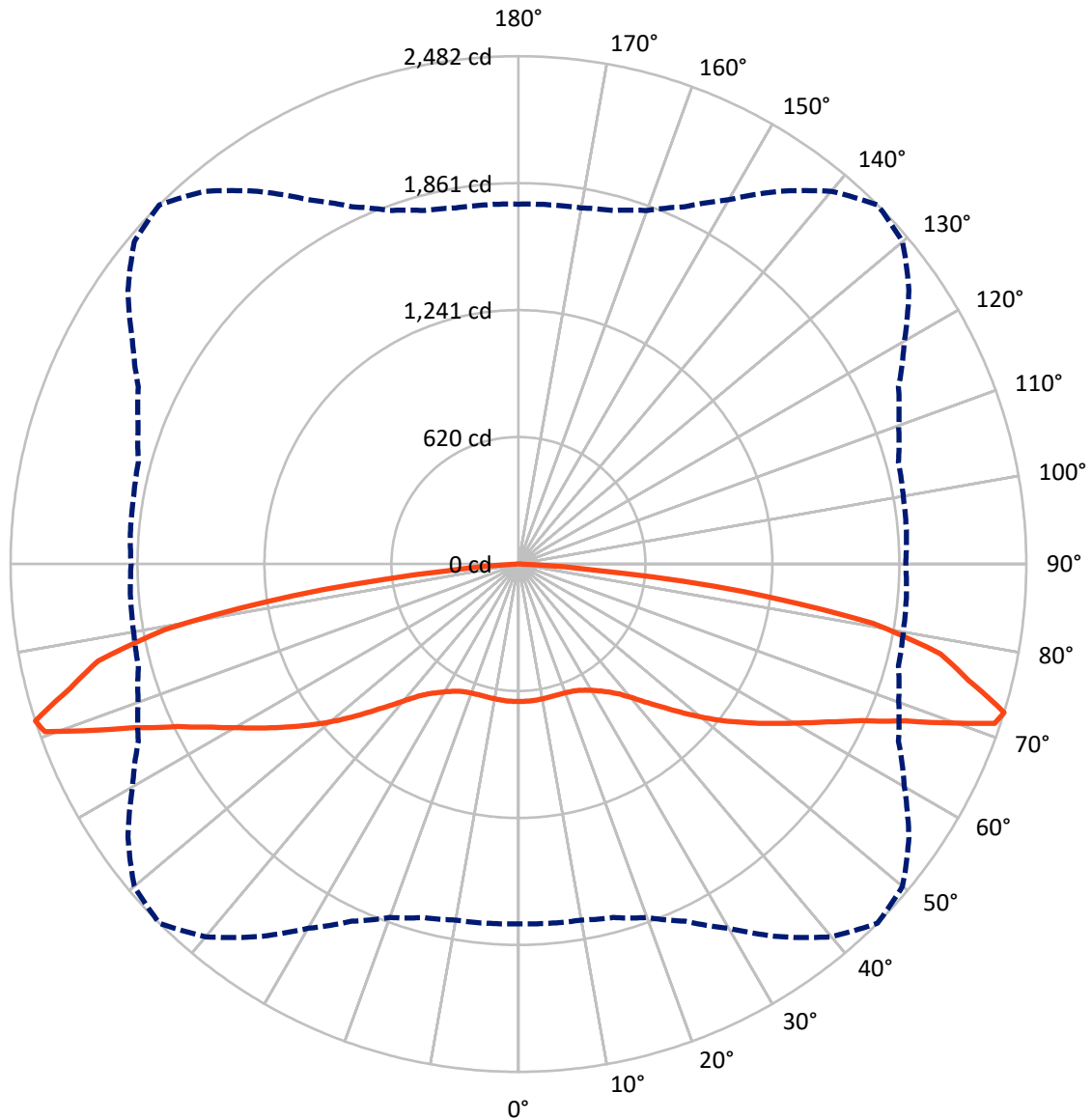
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 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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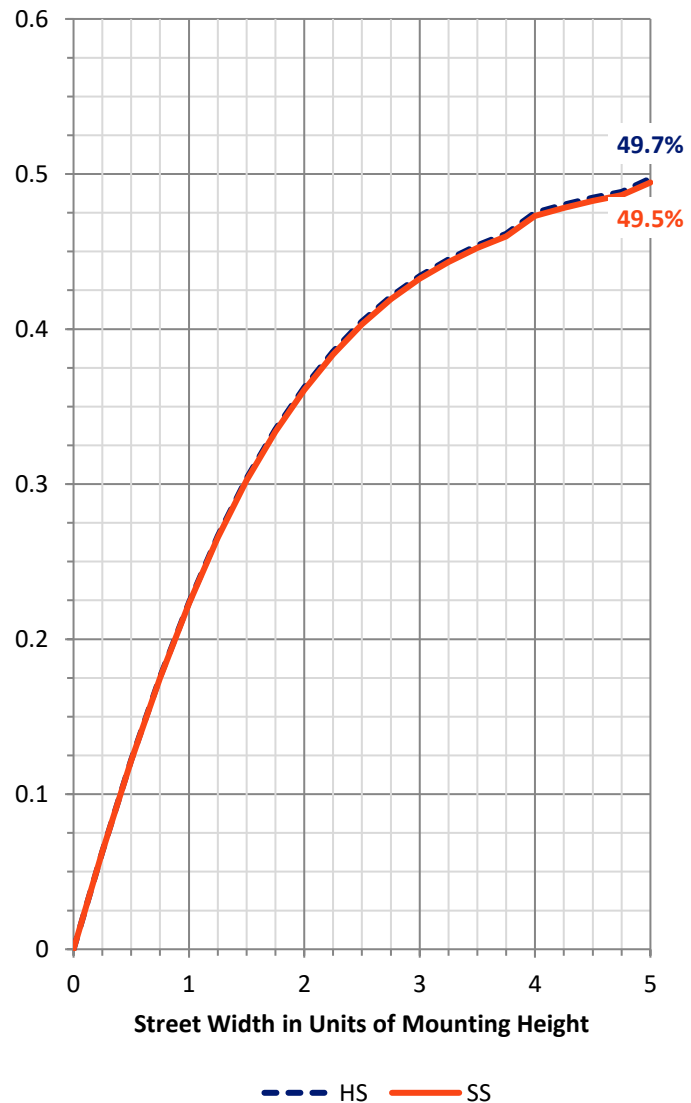
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3544.6	0.0	3544.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3544.6	0.0	3544.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7089.2	0.0	7089.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.0	0.9
10°-20°	189.4	2.7
20°-30°	317.1	4.5
30°-40°	483.4	6.8
40°-50°	771.9	10.9
50°-60°	1186.8	16.7
60°-70°	1728.1	24.4
70°-80°	1946.6	27.5
80°-90°	401.9	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°	7089.2	100.0
0°-180°	7089.2	100.0



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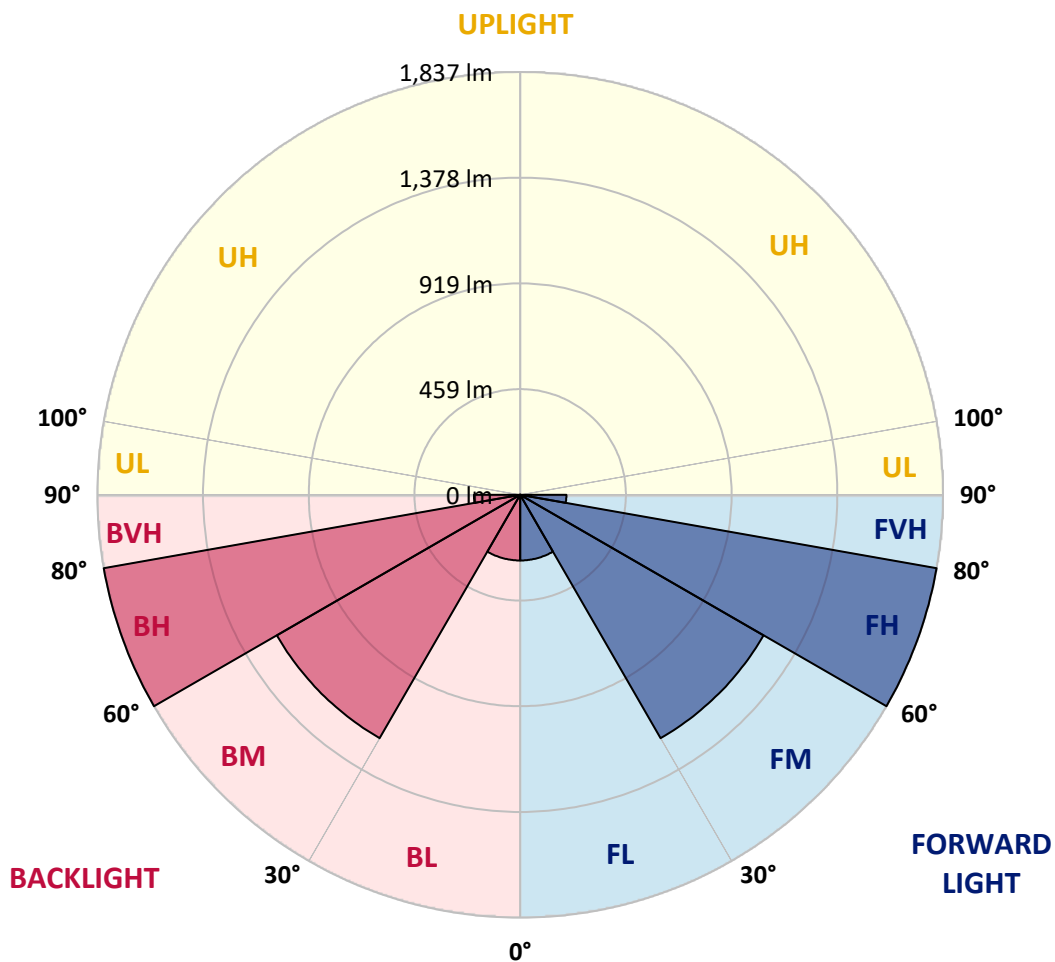
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	285.2	4.0			
FM	(30°-60°)	1221.1	17.2			
FH	(60°-80°)	1837.4	25.9			G2/5000
FVH	(80°-90°)	200.9	2.8			G2/225
BL	(0°-30°)	285.2	4.0	B1/500		
BM	(30°-60°)	1221.1	17.2	B2/2500		
BH	(60°-80°)	1837.4	25.9	B3/2500		G2/5000
BVH	(80°-90°)	200.9	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°	671.7	671.7	671.7	671.7	671.7	671.7	671.7	671.7	671.7	671.7	671.7
2.5°	672.8	673.2	673.0	672.6	672.8	672.6	672.2	672.1	670.8	671.5	672.6
5°	672.8	672.4	672.2	672.1	672.1	672.6	672.0	671.5	671.3	671.7	671.1
7.5°	672.4	671.7	671.3	671.1	671.3	671.5	671.0	670.2	670.8	670.2	669.4
10°	671.3	670.8	670.9	670.2	670.4	670.2	669.4	668.9	669.3	668.7	667.8
12.5°	671.7	670.7	670.6	670.2	670.0	669.8	668.9	667.9	668.2	667.8	666.8
15°	671.7	671.1	671.0	670.2	670.0	669.6	668.5	668.2	668.2	667.6	666.5
17.5°	672.0	671.7	671.7	670.7	670.4	670.2	668.9	668.4	668.9	667.8	667.1
20°	673.2	672.8	673.0	672.4	671.7	671.7	670.8	670.4	670.6	670.4	668.3
22.5°	675.4	675.4	675.8	675.6	675.4	675.6	674.8	674.8	675.0	675.0	673.4
25°	681.7	681.6	681.9	681.9	682.1	683.4	682.8	682.7	683.6	683.6	681.9
27.5°	693.6	693.2	693.6	694.0	694.9	696.6	696.2	696.8	698.3	697.9	696.4
30°	707.3	707.0	707.9	709.0	709.8	712.4	711.2	714.0	715.4	716.4	715.3
32.5°	727.4	727.4	729.1	729.8	731.5	734.1	734.4	736.7	738.4	740.2	738.9
35°	754.2	753.8	755.1	756.4	758.4	760.9	761.8	764.8	767.4	768.6	766.2
37.5°	795.0	793.0	795.4	796.1	797.8	798.4	801.0	804.7	807.5	807.1	805.4
40°	850.4	850.0	849.1	848.0	850.6	851.5	851.5	856.5	861.0	860.2	860.0
42.5°	915.0	913.3	912.2	912.2	913.7	914.1	919.8	923.6	926.7	927.4	926.7
45°	984.5	982.8	983.2	982.4	983.0	985.4	988.7	995.6	1001.6	1001.8	998.6
47.5°	1059.2	1054.0	1058.0	1052.3	1055.8	1057.7	1066.0	1076.1	1086.5	1088.3	1085.5
50°	1134.9	1134.4	1134.0	1132.9	1134.6	1138.6	1148.9	1164.7	1174.7	1181.4	1176.9
52.5°	1217.8	1215.0	1213.7	1211.9	1213.5	1221.5	1235.8	1249.6	1267.6	1275.2	1269.1
55°	1298.4	1297.5	1292.6	1292.5	1296.0	1308.4	1324.0	1341.0	1360.5	1369.0	1366.8
57.5°	1381.2	1375.9	1374.4	1372.2	1379.2	1390.9	1410.0	1440.5	1460.8	1470.4	1464.8
60°	1462.2	1458.2	1455.0	1454.2	1459.1	1475.4	1502.9	1539.5	1564.6	1577.2	1568.3
62.5°	1549.2	1546.6	1542.8	1538.6	1548.8	1569.8	1604.0	1644.5	1681.4	1697.0	1683.5
65°	1657.3	1651.9	1647.8	1642.4	1650.8	1677.2	1720.1	1777.1	1826.7	1844.9	1835.2
67.5°	1771.3	1766.3	1766.7	1763.4	1778.2	1814.8	1870.2	1947.6	2014.1	2045.2	2027.0
70°	1871.0	1873.7	1874.4	1888.0	1913.6	1969.4	2061.5	2182.8	2283.6	2331.0	2311.5
71°	1841.6	1847.7	1857.2	1871.3	1915.5	1981.4	2107.2	2254.1	2374.5	2454.7	2427.8
72.5°	1758.4	1762.1	1766.9	1788.4	1838.4	1925.7	2055.2	2223.1	2377.8	2481.7	2450.4
75°	1638.0	1641.5	1643.2	1658.2	1703.7	1779.9	1898.4	2047.4	2183.9	2272.3	2263.6
77.5°	1456.3	1456.8	1469.9	1493.1	1544.2	1631.3	1756.1	1910.6	2039.0	2107.8	2064.1
80°	1045.8	1038.8	1052.1	1082.0	1145.2	1245.1	1372.9	1549.4	1691.8	1756.1	1688.5
82.5°	397.9	419.4	453.4	502.8	524.2	635.3	754.5	858.2	978.2	1112.3	1078.6
85°	42.8	48.1	60.4	74.9	94.6	130.8	180.8	246.7	304.1	357.4	317.2
87.5°	16.0	16.3	18.2	21.0	21.4	22.3	23.8	27.7	25.8	22.3	18.0
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°	671.7	671.7	671.7	671.7	671.7	671.7	671.7	671.7
2.5°	671.7	671.9	671.7	671.9	671.9	671.1	671.3	671.0
5°	671.5	671.0	671.1	671.3	671.1	671.5	670.9	671.3
7.5°	670.6	669.5	669.8	669.8	669.4	670.0	669.6	669.4
10°	668.7	667.2	668.0	667.6	667.4	667.6	667.6	667.6
12.5°	667.0	666.1	666.3	666.1	665.9	666.5	666.3	666.5
15°	666.7	665.2	665.0	664.6	664.8	665.2	665.2	665.8
17.5°	666.3	664.4	664.2	663.9	664.1	664.8	665.0	664.6
20°	667.4	666.0	665.6	665.2	665.0	665.9	665.8	665.8
22.5°	672.6	670.8	670.6	669.1	668.5	669.1	668.7	668.8
25°	681.0	678.7	678.0	676.0	674.5	674.4	673.9	673.6
27.5°	696.0	692.7	691.9	690.3	688.2	688.6	687.4	687.2
30°	713.5	710.5	707.9	705.5	703.1	702.2	700.8	700.7
32.5°	736.3	733.0	729.8	726.8	723.5	722.2	720.0	718.8
35°	764.4	759.9	756.2	754.2	750.8	749.2	747.7	749.3
37.5°	803.6	798.2	796.3	793.9	791.7	789.1	789.6	789.0
40°	857.8	853.0	851.1	846.8	846.3	843.3	845.2	843.4
42.5°	924.8	915.9	914.6	911.3	910.2	908.5	909.3	908.0
45°	997.9	989.9	988.4	983.0	983.2	979.3	980.8	980.8
47.5°	1080.0	1071.6	1064.8	1060.8	1059.4	1057.0	1058.2	1058.0
50°	1164.6	1153.4	1145.7	1138.1	1134.8	1135.7	1133.1	1137.6
52.5°	1255.7	1238.8	1228.0	1220.8	1214.4	1215.8	1216.1	1217.4
55°	1349.9	1328.3	1312.7	1303.2	1297.5	1297.8	1299.6	1301.0
57.5°	1444.6	1417.6	1396.5	1382.4	1378.7	1380.3	1380.3	1380.1
60°	1542.8	1510.5	1483.2	1467.3	1463.9	1463.0	1470.3	1467.8
62.5°	1648.4	1609.6	1581.3	1560.9	1556.0	1559.4	1565.9	1564.4
65°	1788.2	1734.6	1698.2	1677.9	1669.8	1673.0	1681.8	1681.4
67.5°	1968.6	1893.6	1845.5	1819.4	1813.5	1817.6	1822.4	1827.1
70°	2238.3	2131.1	2062.4	2006.2	1982.0	1977.3	1982.2	1982.4
71°	2333.2	2210.1	2100.7	2031.9	1992.4	1975.6	1977.0	1968.6
72.5°	2329.4	2177.6	2049.6	1977.7	1922.7	1909.4	1902.8	1892.8
75°	2172.4	2035.7	1924.6	1846.2	1793.2	1777.5	1766.0	1765.4
77.5°	1970.1	1869.2	1746.8	1663.8	1599.4	1573.1	1561.4	1561.0
80°	1583.8	1432.7	1343.2	1293.2	1215.4	1192.9	1169.1	1160.2
82.5°	957.7	748.4	608.5	540.7	503.2	414.4	371.9	351.8
85°	223.1	158.4	109.2	71.7	51.6	41.0	31.6	27.8
87.5°	15.0	11.9	10.6	8.6	6.5	6.3	3.9	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)