

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: P147171

Luminaire Tested: **VXS-E02-LED-E1-5MQ-7050**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P147171  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXS-E02-LED-E1-5MQ-7050  
Description: VISION SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (42) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6615.9 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

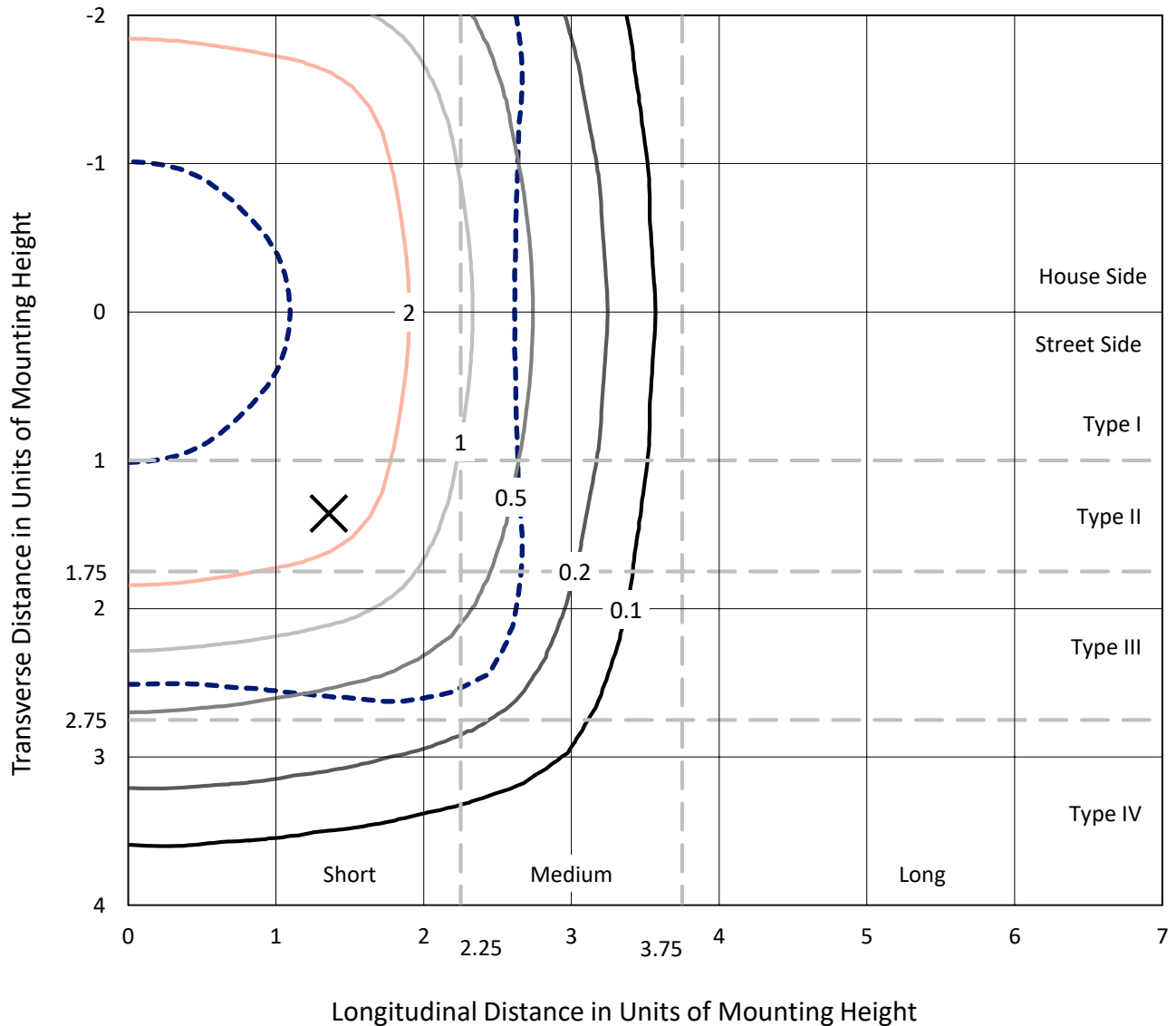
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

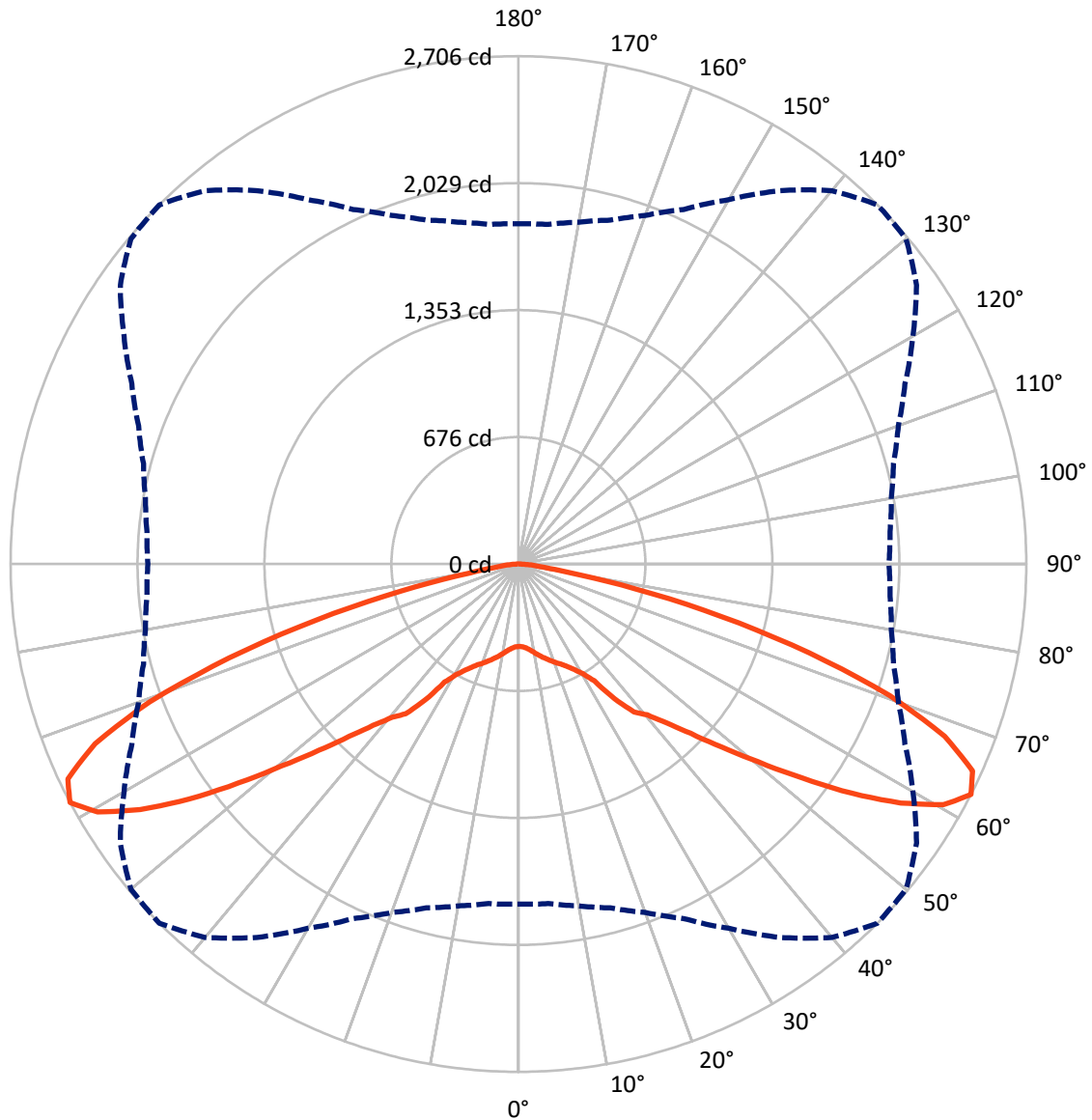
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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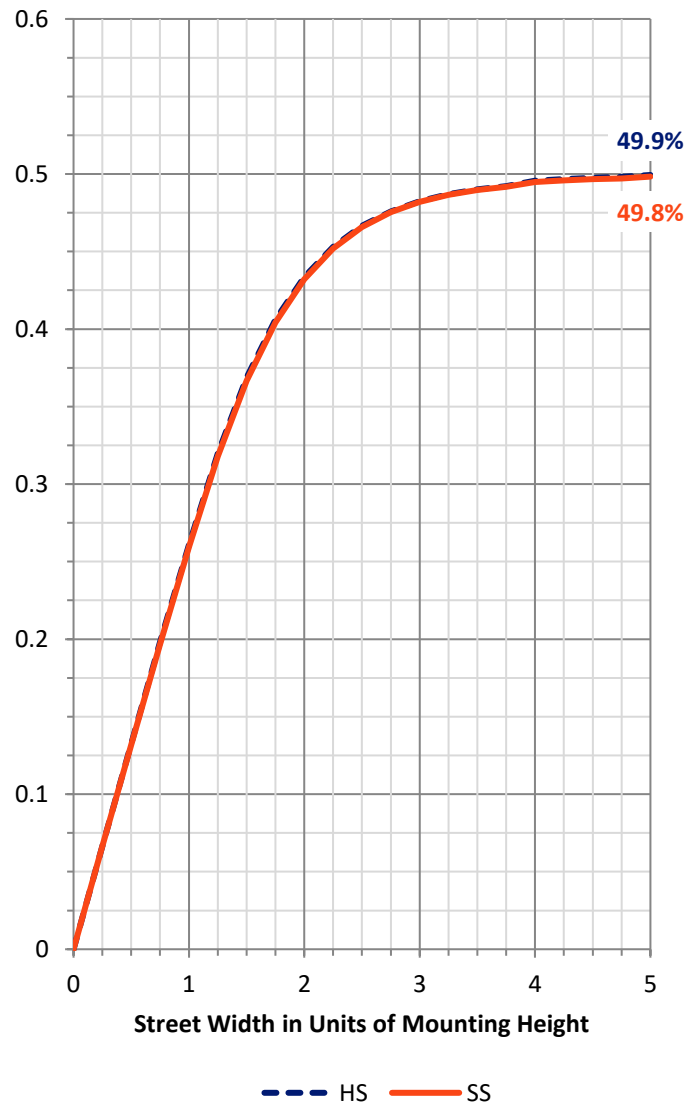
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3307.9	0.0	3307.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3307.9	0.0	3307.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6615.9	0.0	6615.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.0	0.7
10°-20°	148.8	2.2
20°-30°	287.7	4.3
30°-40°	556.9	8.4
40°-50°	1005.6	15.2
50°-60°	1748.6	26.4
60°-70°	1985.1	30.0
70°-80°	769.6	11.6
80°-90°	69.4	1.0
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°	6615.9	100.0
0°-180°	6615.9	100.0



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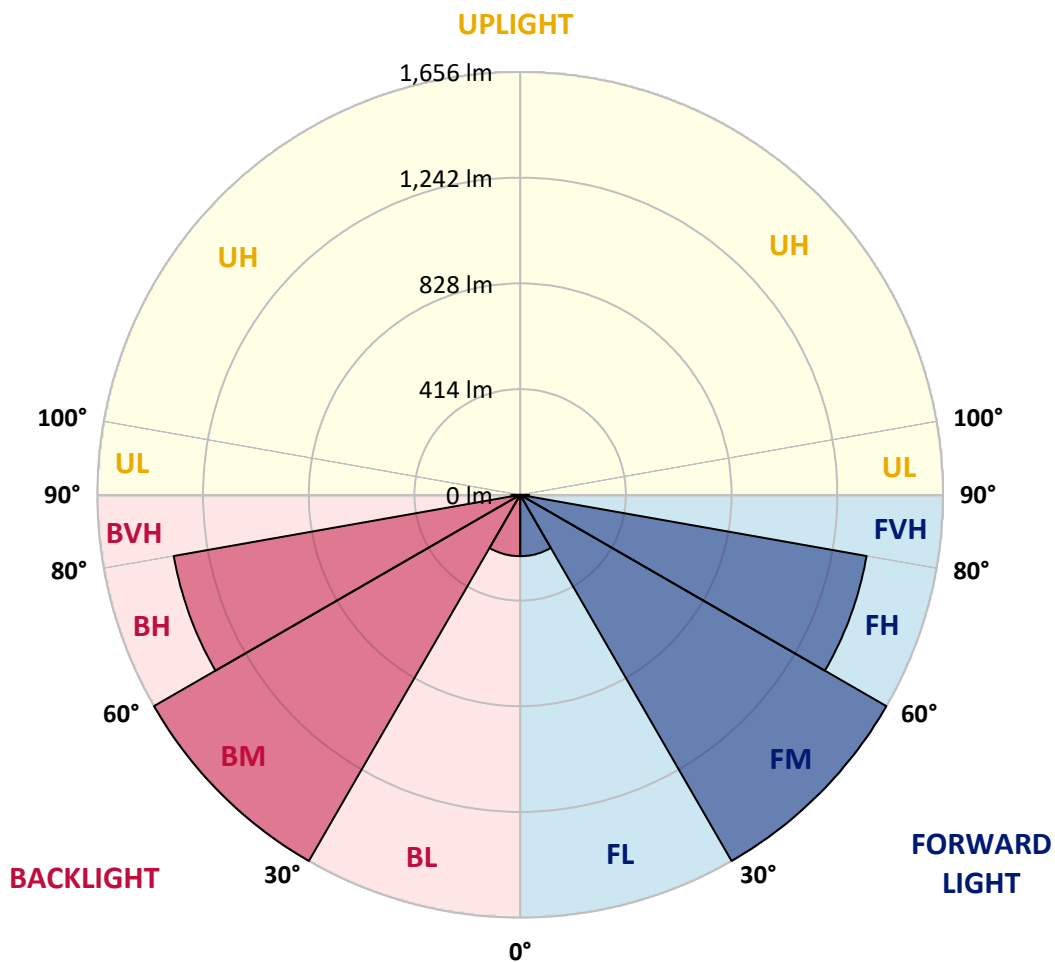
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	240.2	3.6			
FM	(30°-60°)	1655.6	25.0			
FH	(60°-80°)	1377.4	20.8			G1/1800
FVH	(80°-90°)	34.7	0.5			G1/100
BL	(0°-30°)	240.2	3.6	B1/500		
BM	(30°-60°)	1655.6	25.0	B2/2500		
BH	(60°-80°)	1377.4	20.8	B3/2500		G1/1800
BVH	(80°-90°)	34.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2
2.5°	441.9	443.3	442.9	442.3	442.3	442.3	441.9	440.8	440.5	441.2	441.9
5°	452.2	452.2	452.2	452.2	451.4	451.5	450.8	450.2	450.5	449.7	449.4
7.5°	468.0	466.9	466.8	466.5	466.5	465.9	464.9	463.4	463.8	463.4	463.1
10°	486.4	486.7	485.7	486.6	485.0	484.7	483.3	482.6	482.3	481.2	481.2
12.5°	508.6	507.6	507.6	506.9	506.2	505.5	503.4	503.1	501.8	501.1	500.1
15°	529.5	529.1	527.8	526.4	526.0	525.4	522.9	521.7	521.2	519.6	518.1
17.5°	550.3	549.6	548.0	547.3	545.9	544.9	542.8	540.7	539.7	539.1	537.4
20°	572.5	571.9	570.2	568.8	567.0	565.8	562.7	560.9	559.9	558.9	557.5
22.5°	600.2	599.0	596.2	593.8	590.1	588.6	584.5	582.2	580.4	579.1	578.4
25°	630.4	630.7	626.9	623.8	619.5	615.6	610.6	607.9	606.0	604.8	604.4
27.5°	668.0	668.4	665.0	660.5	653.7	649.5	642.7	639.3	638.2	636.9	636.5
30°	727.5	724.4	718.5	711.4	705.3	696.4	686.4	683.1	679.6	678.5	678.5
32.5°	837.0	835.2	830.5	812.6	804.5	786.0	768.6	758.7	747.4	741.9	738.4
35°	913.6	913.0	909.1	903.0	897.8	894.1	883.8	882.1	880.1	880.0	882.7
37.5°	969.9	965.9	965.2	966.2	964.9	965.6	973.8	985.1	994.6	999.4	998.8
40°	1053.5	1047.7	1051.1	1048.7	1045.6	1044.9	1047.7	1052.1	1056.6	1056.6	1055.5
42.5°	1162.5	1165.4	1166.6	1156.8	1150.3	1148.6	1155.0	1153.7	1158.1	1156.5	1151.9
45°	1324.8	1322.9	1320.6	1308.6	1298.3	1290.2	1291.8	1289.5	1289.7	1287.0	1283.6
47.5°	1488.2	1494.1	1484.1	1478.2	1466.7	1460.9	1465.7	1461.6	1469.4	1454.9	1448.2
50°	1646.8	1651.0	1647.7	1639.4	1639.4	1647.6	1653.5	1660.9	1671.9	1655.4	1630.8
52.5°	1776.9	1780.3	1785.5	1792.3	1809.0	1826.4	1851.1	1877.5	1898.2	1895.2	1867.2
55°	1856.2	1860.3	1868.9	1892.4	1922.6	1968.4	2024.1	2085.4	2133.3	2156.5	2136.0
57.5°	1882.9	1886.0	1909.2	1937.6	1984.5	2052.5	2145.9	2251.6	2343.6	2402.1	2392.8
60°	1876.7	1876.8	1900.3	1939.4	2005.0	2095.3	2227.4	2373.7	2514.6	2602.2	2589.2
62.5°	1812.1	1815.5	1849.3	1896.3	1975.5	2083.7	2241.0	2428.1	2596.7	2705.5	2694.9
65°	1670.5	1673.0	1709.4	1765.2	1853.9	1981.8	2153.8	2361.0	2554.4	2659.0	2639.2
67.5°	1441.7	1444.1	1473.8	1536.8	1630.5	1764.2	1949.8	2178.0	2367.3	2449.9	2390.5
70°	1146.8	1153.7	1172.8	1239.6	1310.7	1441.7	1612.6	1840.8	2019.4	2097.7	2032.0
72.5°	781.6	799.0	822.3	881.5	949.4	1058.2	1194.4	1386.5	1529.9	1620.6	1562.1
75°	440.2	464.9	471.9	516.9	572.8	658.8	758.3	896.2	1040.8	1114.4	1043.9
77.5°	190.2	210.4	219.3	240.1	283.9	319.8	380.3	473.4	585.2	636.9	552.3
80°	93.7	98.4	102.3	108.8	121.0	132.6	161.5	202.1	248.0	259.6	206.6
82.5°	72.5	76.0	82.5	87.6	90.7	93.7	96.5	102.0	106.3	108.8	102.6
85°	51.0	55.3	62.6	68.5	71.9	74.2	76.7	78.3	74.2	67.8	71.1
87.5°	13.3	17.4	24.2	26.3	29.8	31.5	30.8	31.8	28.8	20.8	23.2
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°	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2
2.5°	441.7	441.2	441.6	441.7	441.6	441.2	441.2	441.2
5°	449.4	449.4	449.7	449.1	449.1	449.4	449.1	448.7
7.5°	462.8	462.4	462.4	462.2	462.4	462.1	462.1	461.8
10°	480.6	479.9	480.2	479.2	479.2	478.9	478.8	478.9
12.5°	499.7	498.7	499.1	498.0	496.4	496.7	497.0	496.7
15°	518.1	517.1	516.1	515.4	514.4	514.8	514.8	514.4
17.5°	537.0	534.9	534.6	533.6	533.3	533.3	533.3	533.6
20°	556.5	555.1	554.7	553.7	553.4	554.4	554.8	554.1
22.5°	577.4	576.7	577.4	576.6	577.6	578.3	578.7	578.0
25°	603.7	603.0	604.0	606.4	607.8	608.5	610.2	609.5
27.5°	637.5	636.9	639.3	642.7	644.8	648.2	649.8	650.6
30°	681.3	684.4	685.8	692.6	694.0	699.5	699.5	701.9
32.5°	744.9	750.8	760.9	771.6	786.3	796.9	796.9	802.4
35°	884.5	886.9	894.7	896.5	899.5	903.0	899.5	902.3
37.5°	991.5	980.9	973.5	962.9	956.3	956.3	957.0	956.4
40°	1046.2	1042.2	1038.8	1029.8	1028.5	1028.2	1028.2	1029.5
42.5°	1144.1	1134.2	1128.7	1121.2	1118.8	1118.1	1117.7	1118.4
45°	1271.3	1255.2	1240.5	1233.1	1226.5	1220.3	1222.4	1222.4
47.5°	1419.5	1394.4	1370.6	1357.5	1346.3	1341.1	1337.7	1336.7
50°	1599.7	1564.9	1534.0	1509.7	1493.3	1493.1	1494.7	1483.7
52.5°	1820.6	1765.6	1727.3	1694.4	1679.1	1677.3	1671.9	1665.7
55°	2065.5	2000.2	1937.0	1901.8	1881.6	1870.6	1864.0	1853.8
57.5°	2317.9	2230.1	2139.1	2082.7	2047.0	2022.4	2009.5	2003.6
60°	2512.5	2392.5	2272.5	2181.9	2122.7	2086.0	2063.4	2054.3
62.5°	2589.2	2426.3	2272.5	2153.4	2068.0	2017.3	1986.8	1973.6
65°	2497.8	2305.0	2129.8	1998.5	1903.1	1846.6	1813.5	1799.1
67.5°	2242.7	2072.3	1881.9	1751.2	1653.1	1597.3	1561.5	1550.8
70°	1880.2	1706.1	1524.1	1407.5	1320.0	1274.4	1237.1	1232.7
72.5°	1413.0	1262.8	1106.8	1010.4	939.9	864.7	845.6	855.1
75°	905.7	765.2	626.3	539.5	475.1	403.3	375.5	382.4
77.5°	428.9	332.1	239.8	185.4	155.6	133.1	127.3	123.8
80°	159.1	128.9	114.0	108.1	104.0	100.3	97.5	94.4
82.5°	103.0	100.5	97.4	96.5	93.4	88.6	79.7	76.0
85°	77.0	77.0	72.8	73.2	70.9	64.7	56.5	52.0
87.5°	22.6	20.1	18.4	17.1	16.8	15.0	11.0	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)