

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: P147189

Luminaire Tested: **VXS-E04-LED-E1-5MQ-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P147189  
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-E04-LED-E1-5MQ-7030  
Description: VISION SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (84) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11777.7 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

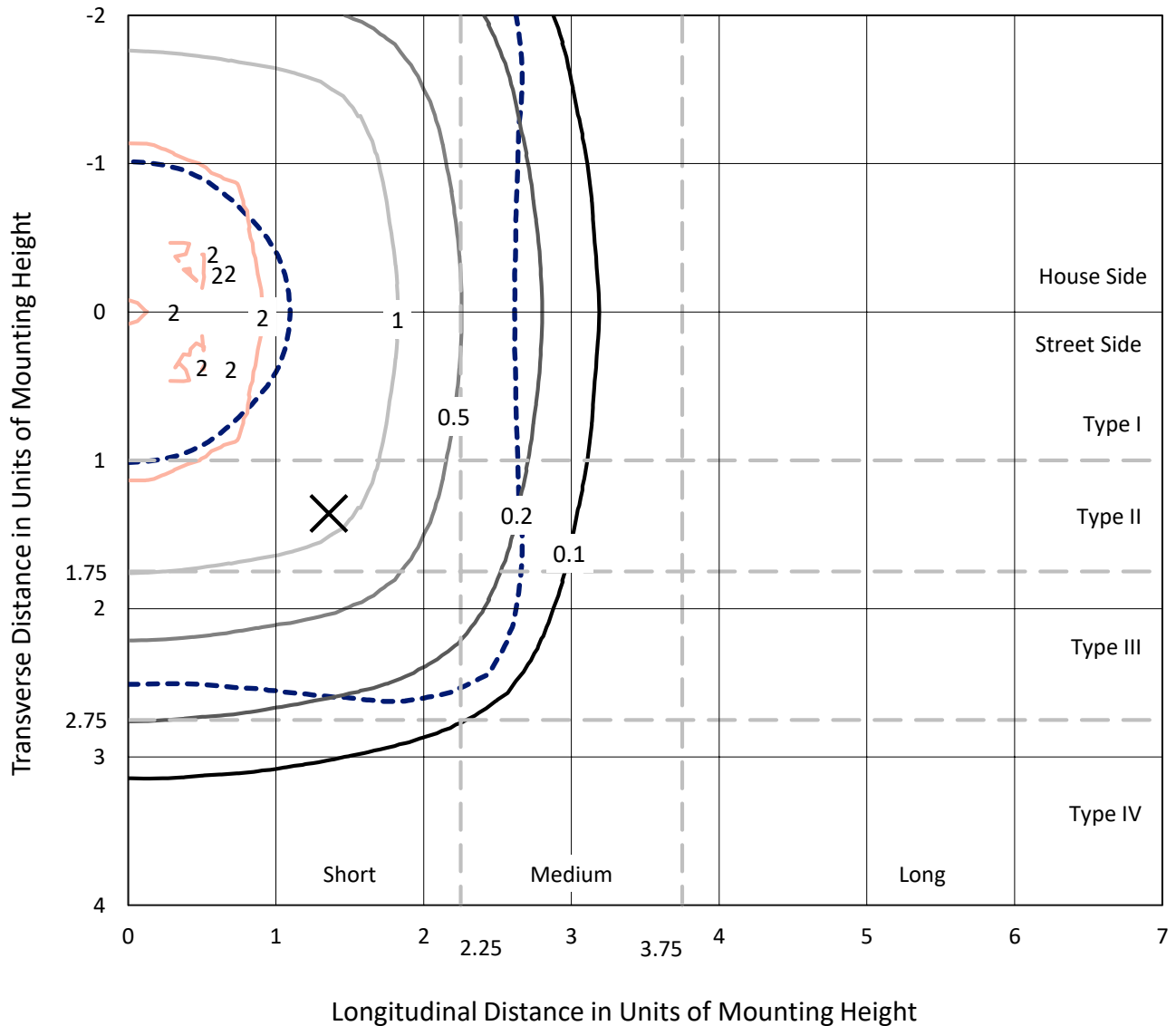
Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

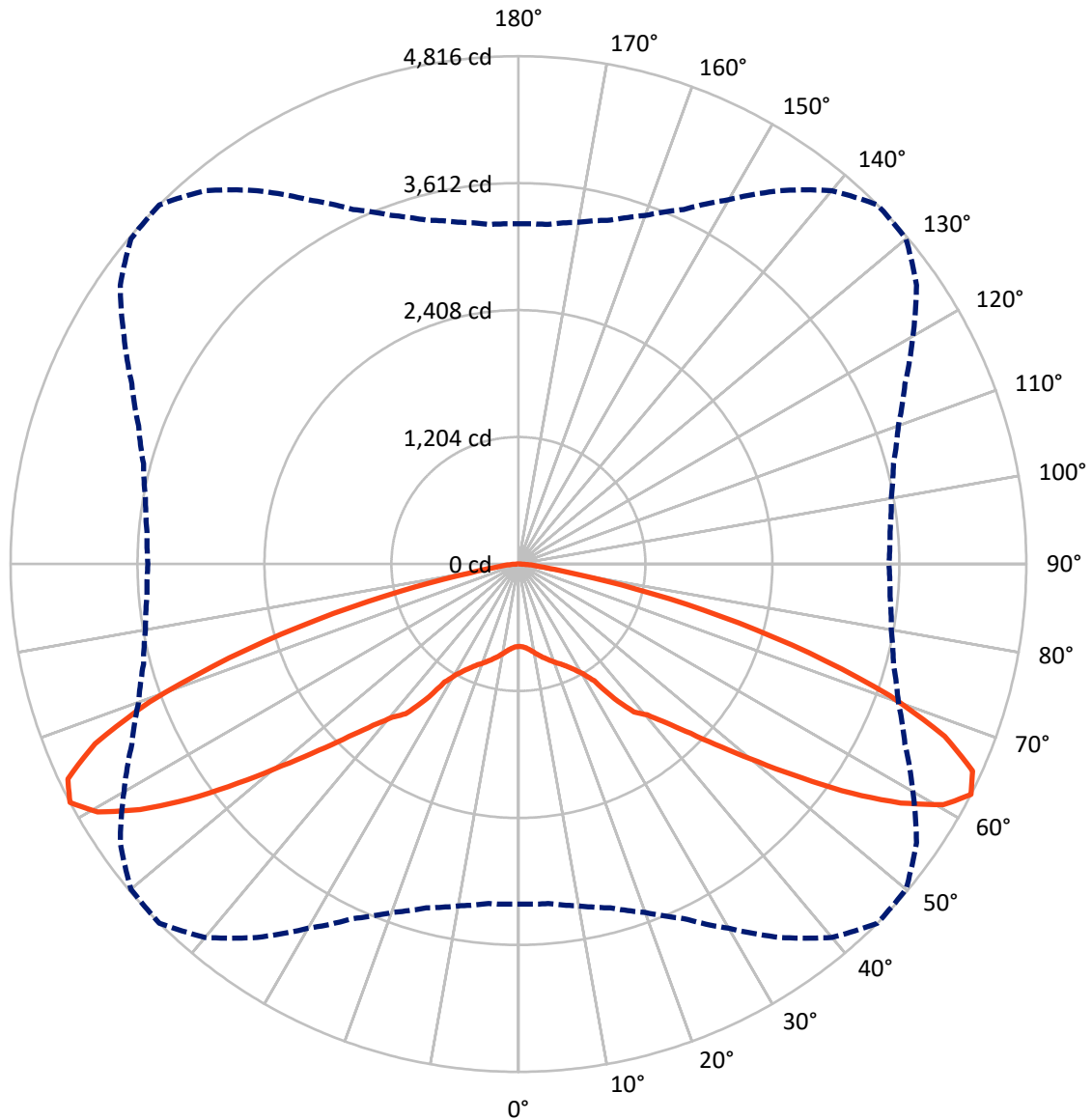
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.2 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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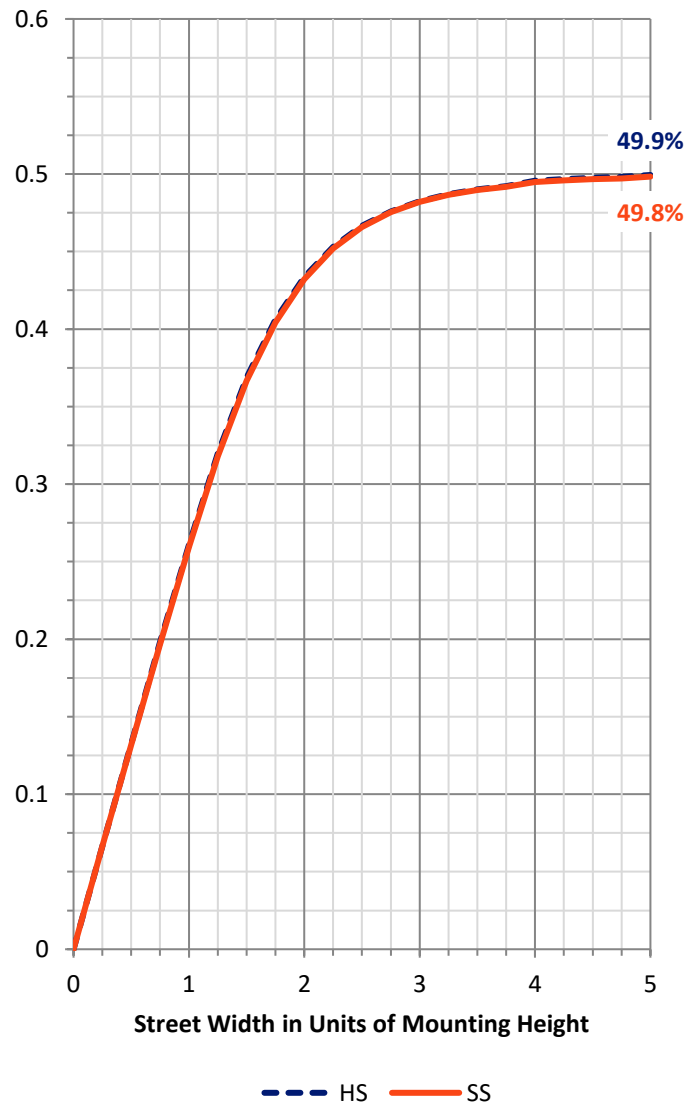
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5888.9	0.0	5888.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5888.9	0.0	5888.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11777.7	0.0	11777.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.3	0.7
10°-20°	264.8	2.2
20°-30°	512.1	4.3
30°-40°	991.5	8.4
40°-50°	1790.2	15.2
50°-60°	3113.0	26.4
60°-70°	3534.0	30.0
70°-80°	1370.1	11.6
80°-90°	123.6	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°	11777.7	100.0
0°-180°	11777.7	100.0



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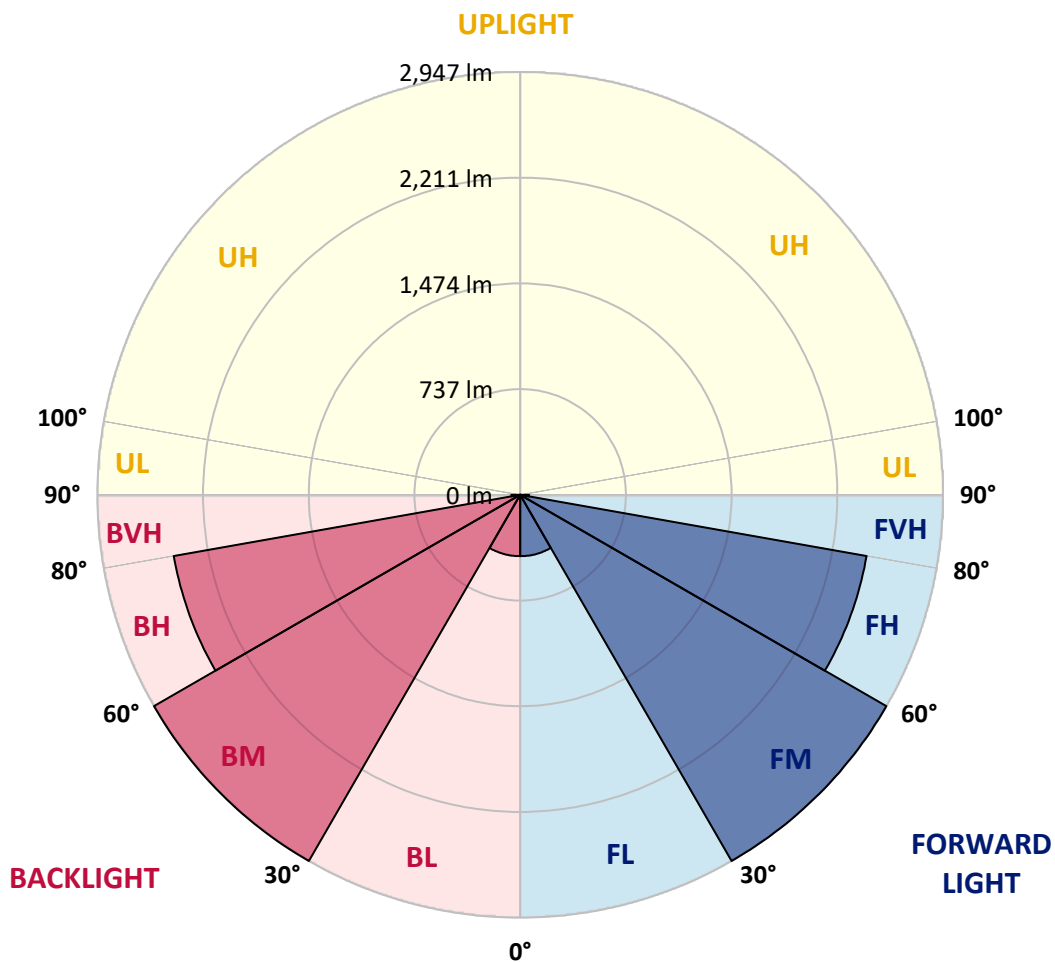
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	427.6	3.6			
FM (30°-60°)	2947.3	25.0			
FH (60°-80°)	2452.1	20.8			G2/5000
FVH (80°-90°)	61.8	0.5			G1/100
BL (0°-30°)	427.6	3.6	B1/500		
BM (30°-60°)	2947.3	25.0	B3/5000		
BH (60°-80°)	2452.1	20.8	B3/2500		G2/5000
BVH (80°-90°)	61.8	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9
2.5°	786.7	789.1	788.6	787.4	787.4	787.4	786.7	784.9	784.2	785.5	786.7
5°	805.0	805.0	805.0	805.0	803.7	803.7	802.5	801.2	801.9	800.7	800.1
7.5°	833.0	831.2	831.1	830.6	830.5	829.3	827.6	825.1	825.7	825.1	824.5
10°	865.9	866.5	864.7	866.4	863.4	862.8	860.3	859.2	858.5	856.8	856.8
12.5°	905.5	903.6	903.6	902.4	901.1	899.9	896.4	895.6	893.3	892.0	890.2
15°	942.6	942.0	939.5	937.1	936.5	935.3	931.0	928.5	928.0	925.0	922.5
17.5°	979.7	978.5	975.5	974.3	971.8	969.9	966.3	962.7	960.8	959.6	956.6
20°	1019.3	1018.0	1015.1	1012.6	1009.5	1007.2	1001.7	998.5	996.8	995.0	992.5
22.5°	1068.6	1066.1	1061.3	1057.0	1050.4	1047.9	1040.6	1036.4	1033.4	1030.9	1029.6
25°	1122.3	1122.9	1116.1	1110.7	1102.7	1096.0	1086.8	1082.1	1079.0	1076.5	1075.9
27.5°	1189.2	1189.8	1183.6	1175.8	1163.5	1156.3	1144.1	1138.0	1136.2	1133.8	1133.2
30°	1295.1	1289.6	1279.3	1266.5	1255.5	1239.7	1222.1	1216.0	1209.8	1208.1	1208.1
32.5°	1489.9	1486.9	1478.4	1446.7	1432.1	1399.3	1368.2	1350.6	1330.4	1320.7	1314.6
35°	1626.3	1625.1	1618.4	1607.5	1598.3	1591.6	1573.4	1570.4	1566.6	1566.7	1571.6
37.5°	1726.8	1719.6	1718.3	1720.2	1717.7	1719.0	1733.6	1753.6	1770.7	1779.3	1778.0
40°	1875.4	1865.1	1871.1	1866.9	1861.3	1860.2	1865.1	1873.0	1880.9	1880.9	1879.1
42.5°	2069.6	2074.6	2076.9	2059.3	2047.7	2044.7	2056.3	2053.9	2061.8	2058.7	2050.8
45°	2358.2	2355.2	2350.9	2329.7	2311.4	2296.8	2299.8	2295.5	2296.2	2291.3	2285.2
47.5°	2649.3	2659.7	2642.1	2631.7	2611.0	2600.6	2609.1	2601.9	2615.8	2590.3	2578.1
50°	2931.8	2939.2	2933.1	2918.4	2918.5	2933.1	2943.4	2956.9	2976.4	2947.0	2903.2
52.5°	3163.2	3169.3	3178.4	3190.7	3220.5	3251.6	3295.3	3342.2	3379.5	3374.0	3323.9
55°	3304.5	3311.8	3327.0	3369.0	3422.6	3504.2	3603.5	3712.5	3797.7	3839.1	3802.6
57.5°	3352.0	3357.5	3398.9	3449.3	3532.8	3654.1	3820.3	4008.4	4172.2	4276.3	4259.9
60°	3341.0	3340.9	3383.0	3452.4	3569.3	3730.2	3965.2	4225.8	4476.7	4632.5	4609.3
62.5°	3225.9	3232.1	3292.3	3375.8	3517.1	3709.4	3989.4	4322.6	4622.8	4816.4	4797.5
65°	2973.9	2978.1	3043.3	3142.6	3300.3	3528.0	3834.2	4203.2	4547.3	4733.6	4698.2
67.5°	2566.5	2570.8	2623.8	2735.8	2902.6	3140.7	3471.3	3877.5	4214.2	4361.6	4255.5
70°	2041.7	2053.9	2087.9	2206.6	2333.3	2566.4	2870.9	3277.1	3594.9	3734.4	3617.4
72.5°	1391.3	1422.4	1463.8	1569.1	1690.4	1883.9	2126.3	2468.5	2723.5	2885.0	2780.8
75°	783.6	827.6	840.3	920.0	1019.9	1172.7	1349.9	1595.3	1852.8	1983.8	1858.4
77.5°	338.5	374.4	390.4	427.5	505.4	569.3	677.1	842.7	1041.9	1133.8	983.4
80°	166.8	175.3	182.1	193.6	215.5	236.3	287.5	359.8	441.5	462.2	367.8
82.5°	129.1	135.1	146.7	155.9	161.5	166.8	171.7	181.5	189.4	193.6	182.7
85°	90.8	98.7	111.5	121.8	127.9	132.1	136.4	139.5	132.1	120.6	126.6
87.5°	23.7	31.1	43.2	46.8	53.0	56.1	54.8	56.6	51.2	37.1	41.5
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°	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9
2.5°	786.1	785.5	786.1	786.1	786.1	785.5	785.5	785.5
5°	800.1	800.1	800.7	799.5	799.5	800.1	799.5	798.9
7.5°	823.8	823.2	823.2	822.6	823.2	822.6	822.6	822.0
10°	855.5	854.3	854.9	853.1	853.1	852.4	852.4	852.4
12.5°	889.6	887.8	888.4	886.6	883.5	884.1	884.8	884.1
15°	922.5	920.6	918.8	917.6	915.9	916.5	916.4	915.8
17.5°	956.0	952.3	951.7	949.8	949.2	949.2	949.2	949.8
20°	990.7	988.2	987.6	985.8	985.2	987.0	987.7	986.4
22.5°	1027.8	1026.5	1027.8	1026.5	1028.4	1029.6	1030.3	1029.0
25°	1074.7	1073.6	1075.2	1079.6	1082.1	1083.3	1086.3	1085.1
27.5°	1134.9	1133.8	1138.0	1144.1	1147.8	1153.9	1156.9	1158.1
30°	1213.0	1218.4	1220.9	1233.1	1235.4	1245.2	1245.2	1249.4
32.5°	1326.2	1336.6	1354.8	1373.7	1399.9	1418.8	1418.8	1428.5
35°	1574.7	1578.9	1593.0	1595.9	1601.5	1607.5	1601.5	1606.3
37.5°	1765.2	1746.3	1732.8	1714.0	1702.5	1702.5	1703.7	1702.5
40°	1862.6	1855.3	1849.2	1833.4	1830.9	1830.3	1830.4	1832.7
42.5°	2036.8	2019.1	2009.3	1996.0	1991.7	1990.5	1989.8	1991.1
45°	2263.2	2234.6	2208.5	2195.0	2183.5	2172.6	2176.2	2176.2
47.5°	2526.8	2482.5	2439.8	2416.7	2396.7	2387.5	2381.3	2379.6
50°	2847.8	2785.7	2731.0	2687.7	2658.4	2657.8	2660.9	2641.5
52.5°	3241.2	3143.1	3074.9	3016.5	2989.0	2986.1	2976.4	2965.4
55°	3677.1	3560.8	3448.3	3385.5	3349.5	3330.2	3318.5	3300.2
57.5°	4126.4	3969.9	3808.1	3707.6	3644.2	3600.4	3577.3	3566.9
60°	4473.0	4259.3	4045.6	3884.1	3778.9	3713.7	3673.5	3657.1
62.5°	4609.3	4319.6	4045.5	3833.6	3681.5	3591.3	3537.1	3513.4
65°	4446.8	4103.4	3791.7	3557.8	3388.0	3287.5	3228.4	3202.8
67.5°	3992.5	3689.3	3350.2	3117.6	2942.8	2843.5	2779.7	2760.7
70°	3347.2	3037.2	2713.3	2505.6	2349.7	2268.8	2202.4	2194.5
72.5°	2515.3	2248.1	1970.4	1798.8	1673.3	1539.3	1505.2	1522.3
75°	1612.3	1362.1	1114.8	960.2	845.8	717.9	668.6	680.7
77.5°	763.5	591.3	426.8	330.1	277.1	236.9	226.5	220.4
80°	283.1	229.5	202.7	192.4	185.1	178.3	173.5	168.1
82.5°	183.3	179.1	173.5	171.7	166.2	157.7	141.9	135.1
85°	137.0	137.0	129.7	130.3	126.0	115.0	100.5	92.5
87.5°	40.2	35.9	32.8	30.5	29.8	26.7	19.5	17.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)