

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: P148229

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P148229  
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: VXS-E04-LED-E1-5XQ-7030  
Description: VISION SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (84) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11619.2 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G3

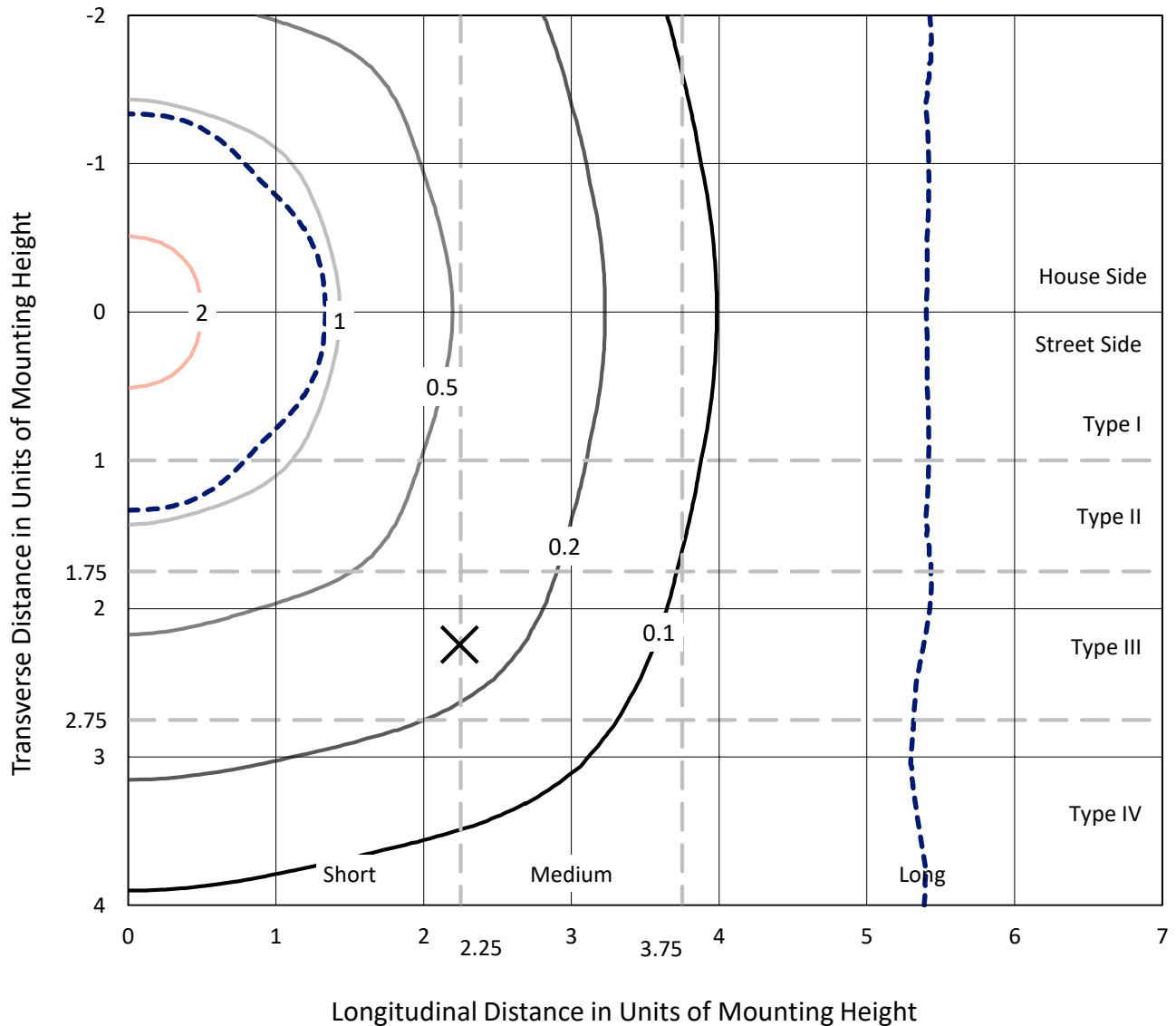
Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

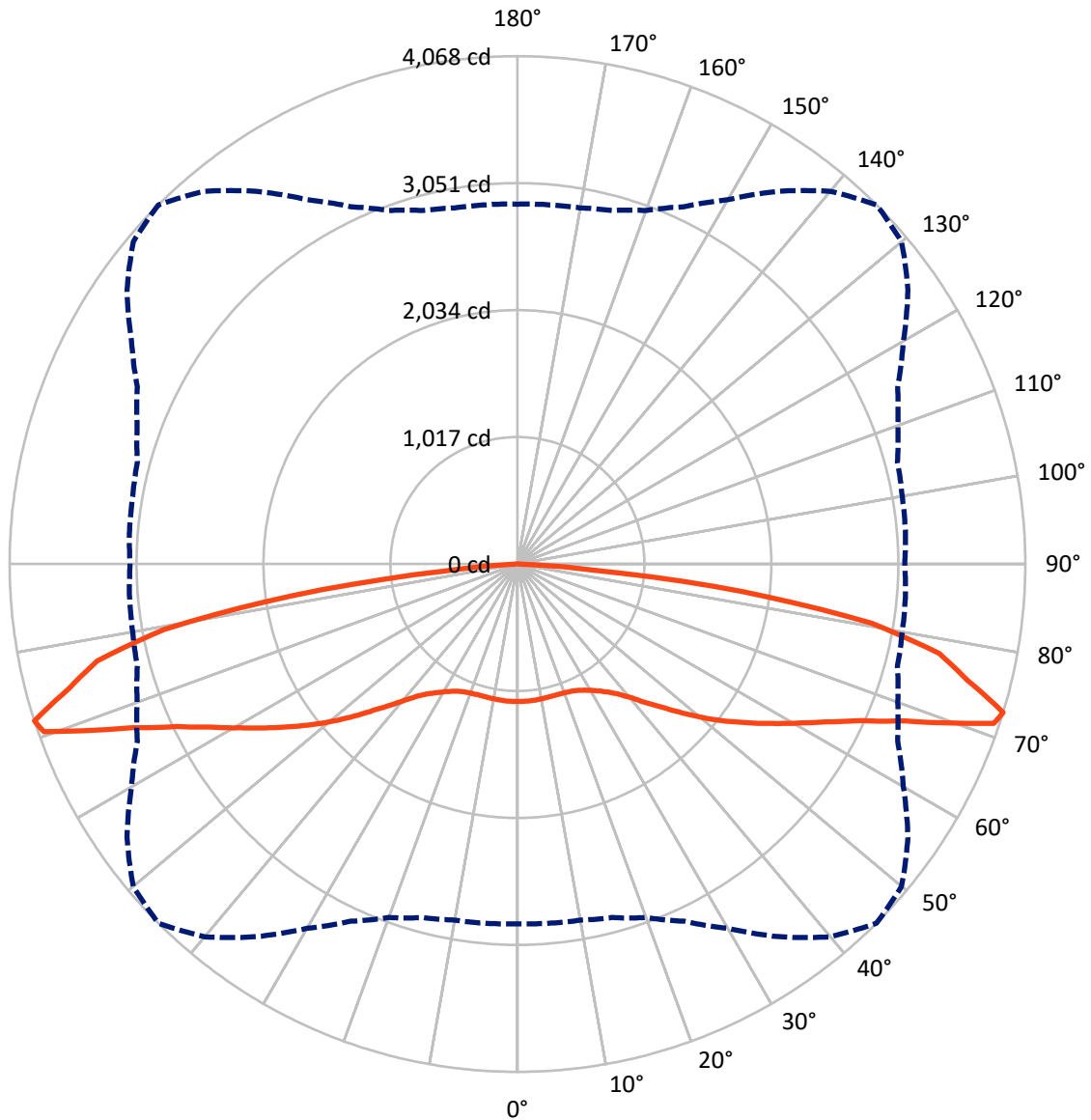
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.8 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	5809.6	0.0	5809.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5809.6	0.0	5809.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11619.2	0.0	11619.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.9	0.9
10°-20°	310.4	2.7
20°-30°	519.7	4.5
30°-40°	792.3	6.8
40°-50°	1265.1	10.9
50°-60°	1945.2	16.7
60°-70°	2832.3	24.4
70°-80°	3190.6	27.5
80°-90°	658.6	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°	11619.2	100.0
0°-180°	11619.2	100.0



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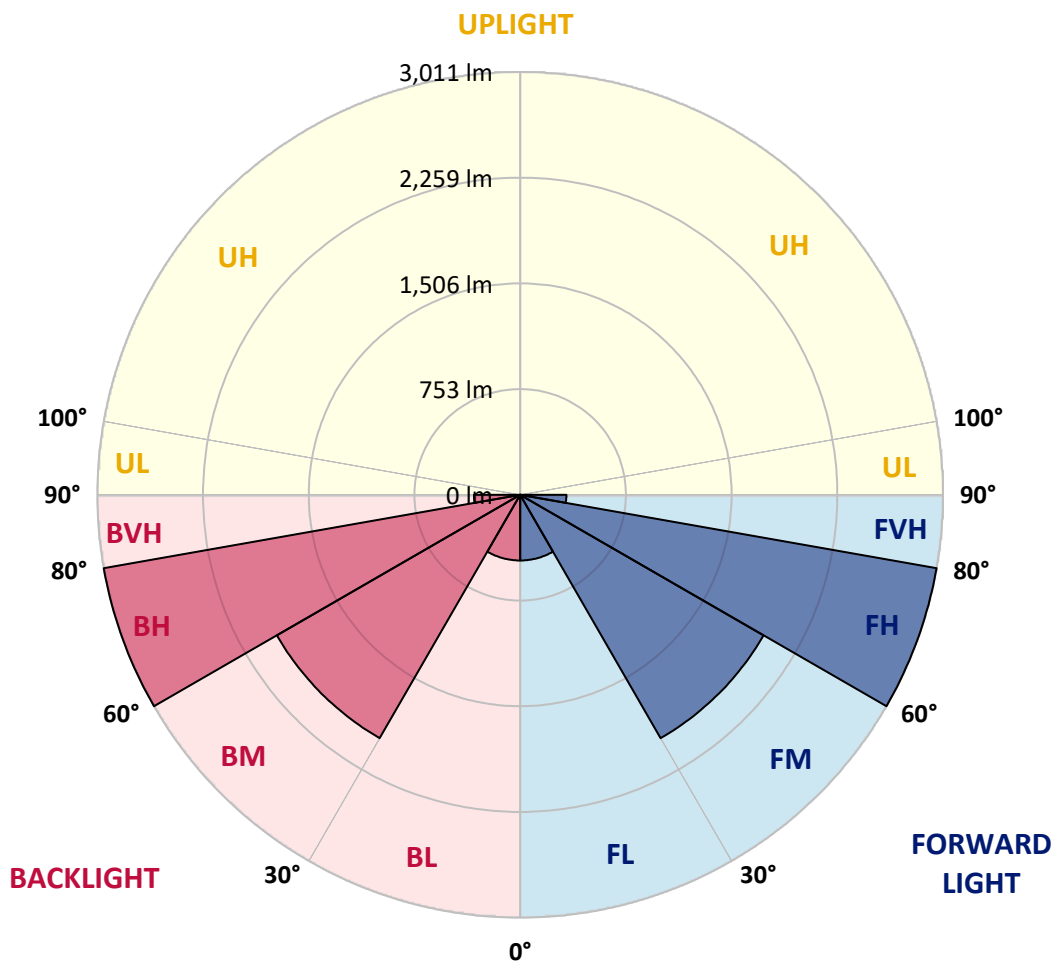
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	467.5	4.0			
FM	(30°-60°)	2001.3	17.2			
FH	(60°-80°)	3011.4	25.9			G2/5000
FVH	(80°-90°)	329.3	2.8			G3/500
BL	(0°-30°)	467.5	4.0	B1/500		
BM	(30°-60°)	2001.3	17.2	B2/2500		
BH	(60°-80°)	3011.4	25.9	B4/5000		G2/5000
BVH	(80°-90°)	329.3	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°	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9
2.5°	1102.8	1103.3	1103.0	1102.4	1102.7	1102.4	1101.8	1101.6	1099.4	1100.6	1102.5
5°	1102.7	1102.2	1101.8	1101.5	1101.5	1102.4	1101.5	1100.5	1100.3	1100.9	1100.0
7.5°	1102.2	1100.9	1100.3	1100.0	1100.3	1100.6	1099.7	1098.4	1099.4	1098.4	1097.2
10°	1100.3	1099.4	1099.7	1098.4	1098.8	1098.4	1097.2	1096.4	1097.0	1096.1	1094.5
12.5°	1100.9	1099.4	1099.1	1098.4	1098.1	1097.8	1096.4	1094.8	1095.1	1094.5	1093.1
15°	1100.9	1100.0	1099.7	1098.4	1098.1	1097.5	1095.8	1095.1	1095.1	1094.2	1092.3
17.5°	1101.5	1100.9	1100.9	1099.4	1098.8	1098.4	1096.4	1095.4	1096.4	1094.5	1093.3
20°	1103.3	1102.7	1103.0	1102.2	1100.9	1100.9	1099.4	1098.8	1099.1	1098.8	1095.4
22.5°	1106.9	1106.9	1107.6	1107.4	1106.9	1107.4	1106.1	1106.1	1106.3	1106.3	1103.6
25°	1117.3	1117.1	1117.6	1117.6	1117.9	1120.1	1119.2	1118.9	1120.4	1120.4	1117.6
27.5°	1136.8	1136.2	1136.8	1137.4	1139.0	1141.7	1141.1	1142.0	1144.5	1143.8	1141.3
30°	1159.4	1158.8	1160.2	1162.1	1163.3	1167.6	1165.7	1170.3	1172.4	1174.3	1172.4
32.5°	1192.2	1192.2	1194.9	1196.2	1199.0	1203.2	1203.8	1207.5	1210.2	1213.3	1211.1
35°	1236.1	1235.4	1237.5	1239.7	1243.1	1247.0	1248.6	1253.4	1257.7	1259.8	1255.9
37.5°	1303.0	1299.7	1303.6	1304.9	1307.6	1308.6	1312.7	1318.9	1323.4	1322.9	1320.1
40°	1393.8	1393.2	1391.6	1389.8	1394.1	1395.6	1395.6	1403.8	1411.2	1409.9	1409.5
42.5°	1499.7	1497.0	1495.1	1495.1	1497.6	1498.2	1507.7	1513.8	1518.9	1520.1	1519.0
45°	1613.6	1610.8	1611.5	1610.3	1611.1	1615.1	1620.6	1631.8	1641.6	1641.9	1636.7
47.5°	1736.0	1727.5	1734.1	1724.7	1730.5	1733.6	1747.3	1763.7	1780.7	1783.8	1779.2
50°	1860.1	1859.3	1858.7	1856.8	1859.6	1866.2	1883.0	1908.9	1925.4	1936.4	1929.0
52.5°	1996.0	1991.4	1989.2	1986.2	1989.0	2002.1	2025.5	2048.1	2077.6	2090.1	2080.0
55°	2128.1	2126.6	2118.7	2118.3	2124.1	2144.6	2170.1	2197.8	2229.7	2243.7	2240.2
57.5°	2263.8	2255.0	2252.6	2248.9	2260.5	2279.8	2311.1	2361.0	2394.2	2410.1	2400.8
60°	2396.7	2389.9	2384.8	2383.5	2391.5	2418.2	2463.3	2523.3	2564.4	2585.1	2570.5
62.5°	2539.1	2534.8	2528.8	2521.8	2538.4	2572.8	2628.9	2695.3	2755.9	2781.5	2759.2
65°	2716.3	2707.5	2700.7	2691.9	2705.7	2748.9	2819.3	2912.6	2994.0	3023.8	3008.0
67.5°	2903.2	2895.0	2895.6	2890.2	2914.5	2974.5	3065.2	3192.1	3301.1	3352.0	3322.2
70°	3066.4	3071.0	3072.2	3094.4	3136.4	3227.8	3378.9	3577.6	3742.9	3820.5	3788.6
71°	3018.2	3028.4	3043.8	3067.0	3139.5	3247.6	3453.7	3694.5	3891.8	4023.3	3979.2
72.5°	2882.0	2888.1	2896.0	2931.3	3013.2	3156.3	3368.5	3643.6	3897.2	4067.5	4016.3
75°	2684.6	2690.4	2693.2	2717.8	2792.4	2917.3	3111.5	3355.6	3579.5	3724.4	3710.1
77.5°	2386.9	2387.8	2409.1	2447.2	2530.9	2673.7	2878.2	3131.6	3342.0	3454.6	3383.0
80°	1714.0	1702.5	1724.4	1773.4	1876.9	2040.7	2250.2	2539.4	2773.0	2878.2	2767.5
82.5°	652.1	687.5	743.2	824.1	859.2	1041.2	1236.7	1406.6	1603.2	1823.1	1768.0
85°	70.1	78.9	99.0	122.7	154.9	214.3	296.2	404.4	498.3	585.7	520.0
87.5°	26.1	26.7	29.8	34.4	35.0	36.6	39.0	45.4	42.3	36.6	29.5
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°	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9
2.5°	1100.9	1101.2	1100.9	1101.1	1101.1	1100.0	1100.3	1099.7
5°	1100.6	1099.6	1100.0	1100.3	1100.0	1100.5	1099.7	1100.3
7.5°	1099.1	1097.2	1097.8	1097.8	1097.2	1098.1	1097.5	1097.2
10°	1096.1	1093.6	1094.8	1094.2	1093.9	1094.2	1094.2	1094.2
12.5°	1093.3	1091.8	1092.0	1091.8	1091.4	1092.4	1092.0	1092.4
15°	1092.6	1090.3	1089.9	1089.3	1089.6	1090.3	1090.3	1091.2
17.5°	1092.0	1089.0	1088.7	1088.1	1088.4	1089.6	1089.9	1089.3
20°	1093.9	1091.4	1090.9	1090.3	1089.9	1091.5	1091.2	1091.2
22.5°	1102.4	1099.4	1099.1	1096.6	1095.8	1096.6	1096.1	1096.0
25°	1116.1	1112.4	1111.3	1107.9	1105.5	1105.5	1104.6	1103.9
27.5°	1140.7	1135.3	1134.1	1131.4	1128.0	1128.6	1126.8	1126.4
30°	1169.4	1164.6	1160.2	1156.4	1152.3	1150.8	1148.7	1148.4
32.5°	1206.8	1201.3	1196.2	1191.3	1185.8	1183.7	1180.1	1178.2
35°	1252.8	1245.5	1239.5	1236.1	1230.6	1227.8	1225.4	1228.2
37.5°	1317.0	1308.2	1305.2	1301.2	1297.6	1293.3	1294.2	1293.3
40°	1406.0	1398.0	1395.0	1388.0	1387.0	1382.2	1385.3	1382.2
42.5°	1515.9	1501.2	1499.1	1493.7	1491.8	1489.1	1490.4	1488.2
45°	1635.5	1622.4	1620.0	1611.2	1611.5	1605.1	1607.5	1607.5
47.5°	1770.1	1756.4	1745.1	1738.7	1736.3	1732.3	1734.5	1734.1
50°	1908.9	1890.4	1877.9	1865.4	1859.9	1861.5	1857.2	1864.5
52.5°	2058.0	2030.4	2012.7	2000.8	1990.5	1992.6	1993.3	1995.4
55°	2212.4	2177.1	2151.5	2136.0	2126.6	2127.3	2129.9	2132.4
57.5°	2367.7	2323.5	2288.9	2265.7	2259.6	2262.4	2262.4	2262.1
60°	2528.7	2475.8	2431.1	2404.9	2399.4	2397.8	2409.7	2405.7
62.5°	2701.8	2638.1	2591.8	2558.3	2550.4	2555.9	2566.5	2564.1
65°	2931.0	2843.0	2783.3	2750.1	2736.8	2742.2	2756.5	2756.0
67.5°	3226.5	3103.6	3024.7	2982.1	2972.3	2979.1	2986.9	2994.6
70°	3668.6	3493.0	3380.3	3288.1	3248.5	3240.8	3248.7	3249.1
71°	3824.1	3622.4	3443.0	3330.4	3265.5	3238.1	3240.2	3226.5
72.5°	3817.8	3569.1	3359.3	3241.5	3151.4	3129.4	3118.8	3102.4
75°	3560.5	3336.5	3154.4	3025.9	2939.2	2913.3	2894.4	2893.5
77.5°	3229.0	3063.6	2863.1	2726.9	2621.3	2578.3	2559.2	2558.5
80°	2595.8	2348.2	2201.5	2119.6	1992.0	1955.2	1916.2	1901.6
82.5°	1569.7	1226.6	997.3	886.2	824.8	679.3	609.5	576.6
85°	365.6	259.7	179.1	117.5	84.7	67.3	51.8	45.7
87.5°	24.7	19.5	17.4	14.1	10.7	10.4	6.4	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)