

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: P180196

Luminaire Tested: **ICM-E05-LED-E1-5XQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180196
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: ICM-E05-LED-E1-5XQ-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12484.8 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

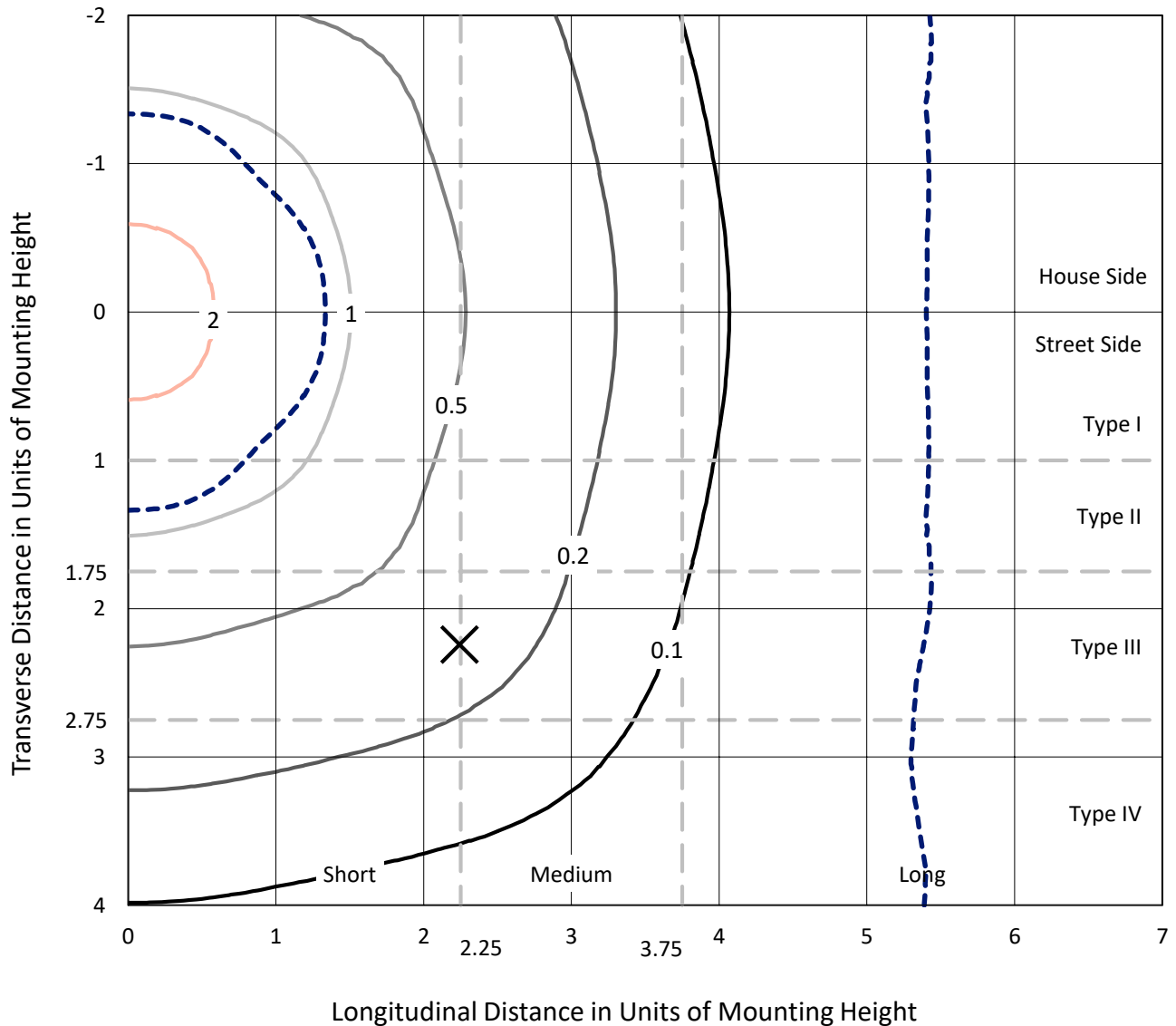
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

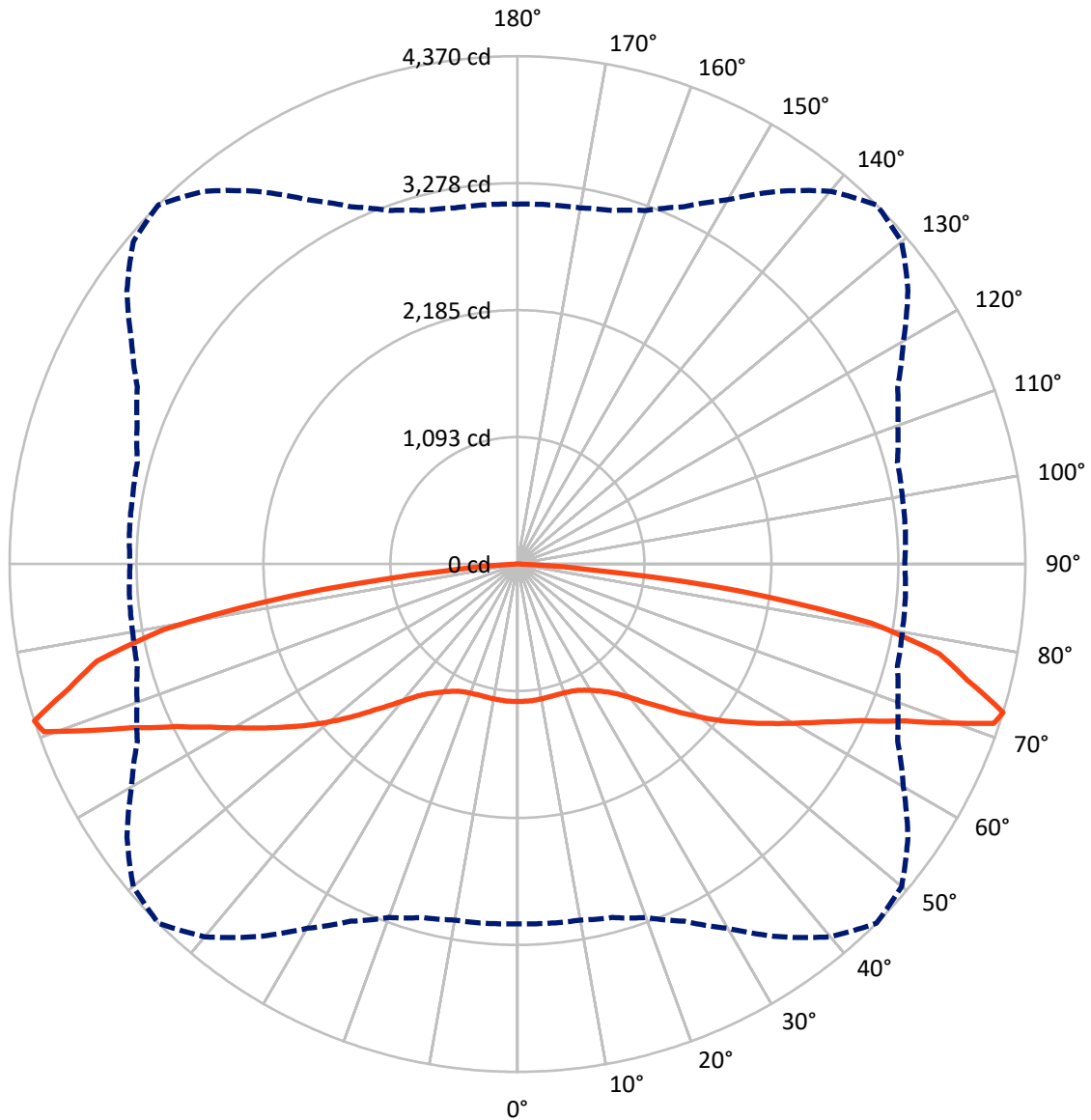
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3 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
House Side	Lumens	6242.4	0.0	6242.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6242.4	0.0	6242.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	12484.8	0.0	12484.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	0.9
10°-20°	333.5	2.7
20°-30°	558.4	4.5
30°-40°	851.3	6.8
40°-50°	1359.4	10.9
50°-60°	2090.2	16.7
60°-70°	3043.3	24.4
70°-80°	3428.2	27.5
80°-90°	707.7	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°	12484.8	100.0
0°-180°	12484.8	100.0



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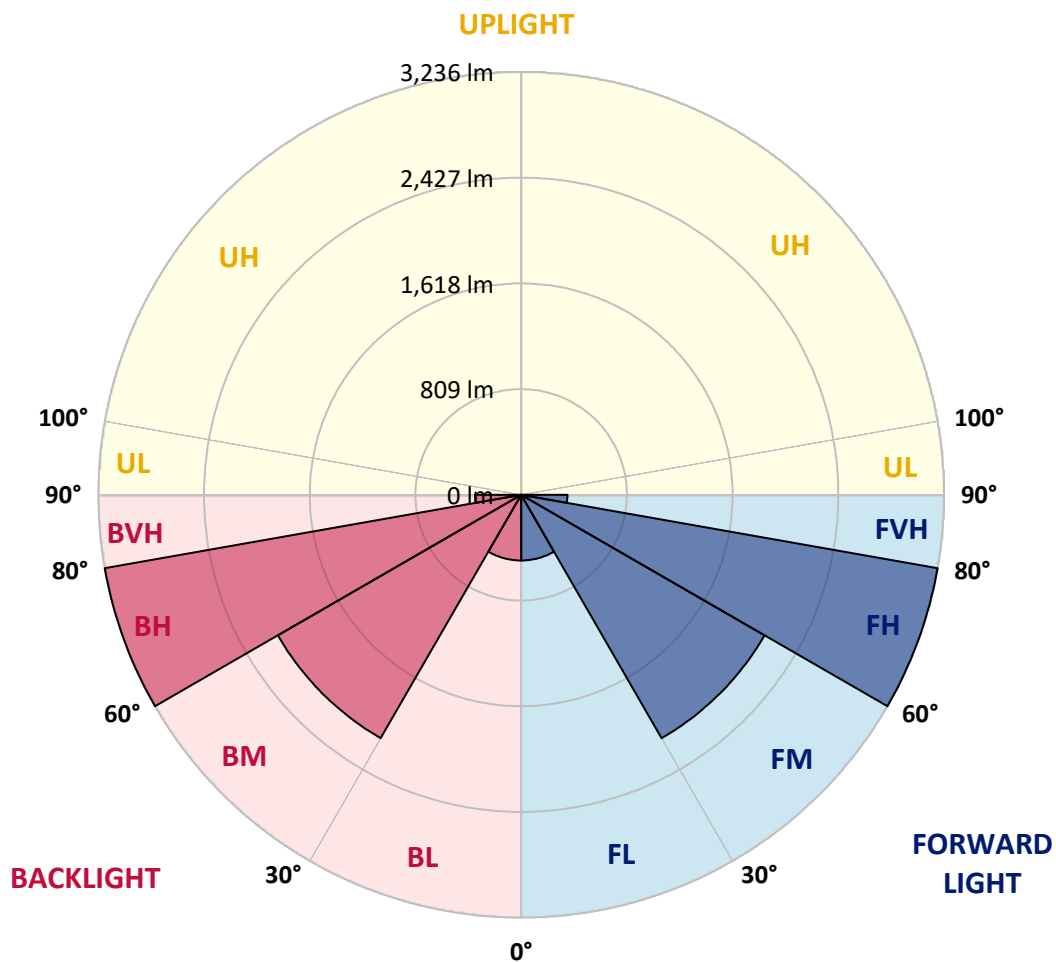
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	502.3	4.0			
FM	(30°-60°)	2150.4	17.2			
FH	(60°-80°)	3235.8	25.9			G2/5000
FVH	(80°-90°)	353.9	2.8			G3/500
BL	(0°-30°)	502.3	4.0	B2/1000		
BM	(30°-60°)	2150.4	17.2	B2/2500		
BH	(60°-80°)	3235.8	25.9	B4/5000		G2/5000
BVH	(80°-90°)	353.9	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°	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9
2.5°	1184.9	1185.5	1185.2	1184.6	1184.9	1184.6	1183.8	1183.5	1181.2	1182.5	1184.6
5°	1184.9	1184.2	1183.9	1183.6	1183.5	1184.6	1183.5	1182.6	1182.2	1182.9	1182.0
7.5°	1184.3	1182.9	1182.2	1182.0	1182.2	1182.6	1181.6	1180.3	1181.2	1180.3	1179.0
10°	1182.3	1181.3	1181.6	1180.3	1180.7	1180.3	1179.0	1178.0	1178.6	1177.7	1176.0
12.5°	1182.9	1181.3	1180.9	1180.3	1179.9	1179.6	1178.0	1176.4	1176.7	1176.0	1174.4
15°	1182.9	1182.0	1181.6	1180.3	1180.0	1179.3	1177.3	1176.7	1176.7	1175.7	1173.8
17.5°	1183.6	1182.9	1182.9	1181.3	1180.7	1180.3	1178.0	1177.0	1178.0	1176.0	1174.7
20°	1185.5	1184.9	1185.2	1184.3	1182.9	1182.9	1181.2	1180.7	1180.9	1180.7	1177.0
22.5°	1189.4	1189.4	1190.1	1189.8	1189.4	1189.8	1188.5	1188.5	1188.8	1188.8	1185.9
25°	1200.6	1200.2	1200.8	1200.8	1201.2	1203.5	1202.5	1202.2	1203.8	1203.8	1200.9
27.5°	1221.5	1220.8	1221.5	1222.1	1223.8	1226.7	1226.1	1227.1	1229.7	1229.0	1226.4
30°	1245.8	1245.0	1246.7	1248.7	1250.0	1254.5	1252.6	1257.5	1259.8	1261.8	1259.7
32.5°	1281.0	1281.0	1284.0	1285.3	1288.2	1292.8	1293.5	1297.4	1300.4	1303.6	1301.3
35°	1328.2	1327.5	1329.8	1332.1	1335.6	1339.9	1341.6	1346.8	1351.4	1353.7	1349.4
37.5°	1400.2	1396.5	1400.8	1402.1	1405.0	1406.0	1410.6	1417.1	1422.1	1421.4	1418.4
40°	1497.6	1496.9	1495.3	1493.3	1498.0	1499.5	1499.5	1508.4	1516.2	1515.0	1514.6
42.5°	1611.5	1608.5	1606.5	1606.5	1609.1	1609.9	1619.9	1626.4	1632.0	1633.4	1632.0
45°	1733.8	1730.8	1731.5	1730.2	1731.2	1735.5	1741.3	1753.4	1763.9	1764.2	1758.7
47.5°	1865.3	1856.1	1863.4	1853.2	1859.5	1862.7	1877.4	1895.1	1913.4	1916.7	1911.7
50°	1998.7	1997.8	1997.1	1995.2	1998.2	2005.3	2023.3	2051.1	2068.8	2080.6	2072.7
52.5°	2144.7	2139.7	2137.5	2134.2	2137.1	2151.3	2176.4	2200.6	2232.4	2245.7	2235.0
55°	2286.6	2285.0	2276.5	2276.1	2282.4	2304.3	2331.7	2361.5	2395.9	2411.0	2407.0
57.5°	2432.6	2423.1	2420.5	2416.6	2428.9	2449.5	2483.3	2536.9	2572.6	2589.6	2579.7
60°	2575.2	2568.0	2562.4	2561.0	2569.6	2598.3	2646.8	2711.3	2755.4	2777.7	2762.0
62.5°	2728.3	2723.6	2717.1	2709.6	2727.6	2764.6	2824.8	2896.1	2961.1	2988.7	2964.8
65°	2918.6	2909.2	2902.0	2892.5	2907.2	2953.7	3029.2	3129.7	3216.9	3249.0	3232.0
67.5°	3119.5	3110.7	3111.4	3105.5	3131.6	3196.1	3293.6	3430.0	3547.1	3601.7	3569.7
70°	3294.9	3299.7	3301.0	3325.0	3370.1	3468.2	3630.5	3844.1	4021.7	4105.1	4070.8
71°	3243.2	3254.0	3270.6	3295.5	3373.4	3489.5	3710.9	3969.7	4181.7	4323.0	4275.6
72.5°	3096.6	3103.2	3111.6	3149.6	3237.6	3391.4	3619.4	3915.1	4187.6	4370.4	4315.6
75°	2884.7	2890.8	2893.8	2920.3	3000.5	3134.5	3343.3	3605.6	3846.1	4001.8	3986.4
77.5°	2564.7	2565.7	2588.6	2629.5	2719.5	2872.9	3092.7	3364.9	3590.9	3711.9	3635.0
80°	1841.7	1829.3	1852.8	1905.5	2016.8	2192.8	2417.8	2728.6	2979.6	3092.7	2973.6
82.5°	700.7	738.7	798.5	885.6	923.2	1118.8	1328.8	1511.4	1722.6	1958.9	1899.6
85°	75.3	84.7	106.3	131.9	166.5	230.3	318.3	434.4	535.5	629.4	558.7
87.5°	28.1	28.7	32.1	37.0	37.7	39.3	41.9	48.7	45.5	39.3	31.7
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°	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9
2.5°	1182.9	1183.3	1182.9	1183.2	1183.3	1182.0	1182.2	1181.6
5°	1182.6	1181.6	1182.0	1182.2	1182.0	1182.5	1181.6	1182.2
7.5°	1180.9	1179.0	1179.6	1179.6	1179.0	1179.9	1179.4	1179.0
10°	1177.7	1175.1	1176.4	1175.6	1175.4	1175.6	1175.7	1175.6
12.5°	1174.7	1173.0	1173.4	1173.0	1172.8	1173.8	1173.4	1173.8
15°	1174.1	1171.4	1171.2	1170.4	1170.8	1171.4	1171.4	1172.5
17.5°	1173.4	1170.1	1169.9	1169.1	1169.5	1170.8	1171.1	1170.4
20°	1175.4	1172.8	1172.1	1171.4	1171.1	1172.8	1172.5	1172.5
22.5°	1184.6	1181.3	1180.9	1178.3	1177.3	1178.3	1177.7	1177.7
25°	1199.3	1195.4	1194.1	1190.4	1187.8	1187.8	1186.8	1186.2
27.5°	1225.8	1219.9	1218.6	1215.6	1212.0	1212.7	1210.7	1210.4
30°	1256.6	1251.3	1246.7	1242.4	1238.2	1236.6	1234.2	1234.0
32.5°	1296.8	1290.8	1285.3	1280.1	1274.2	1271.9	1267.9	1266.1
35°	1346.1	1338.2	1331.7	1328.1	1322.2	1319.3	1316.7	1319.6
37.5°	1415.2	1405.7	1402.4	1398.1	1394.2	1389.7	1390.6	1389.6
40°	1510.7	1502.2	1498.9	1491.4	1490.4	1485.2	1488.4	1485.2
42.5°	1628.8	1613.0	1610.8	1604.8	1603.0	1600.0	1601.3	1599.0
45°	1757.3	1743.3	1740.7	1731.2	1731.5	1724.7	1727.3	1727.3
47.5°	1902.0	1887.3	1875.1	1868.3	1865.6	1861.4	1863.6	1863.4
50°	2051.1	2031.2	2017.7	2004.3	1998.4	2000.1	1995.5	2003.4
52.5°	2211.4	2181.6	2162.6	2149.9	2138.8	2141.0	2141.8	2144.0
55°	2377.2	2339.4	2311.8	2295.2	2285.0	2285.7	2288.6	2291.2
57.5°	2544.1	2496.7	2459.4	2434.5	2427.9	2430.9	2430.9	2430.6
60°	2717.1	2660.2	2612.1	2584.0	2578.2	2576.5	2589.2	2585.0
62.5°	2903.0	2834.6	2784.9	2748.9	2740.4	2746.2	2757.7	2755.1
65°	3149.2	3054.7	2990.6	2955.0	2940.6	2946.4	2961.9	2961.1
67.5°	3466.9	3334.7	3250.1	3204.2	3193.8	3200.9	3209.5	3217.7
70°	3942.0	3753.1	3632.1	3533.0	3490.4	3482.3	3490.8	3491.2
71°	4109.0	3892.2	3699.6	3578.4	3508.9	3479.4	3481.6	3467.0
72.5°	4102.2	3834.9	3609.5	3483.0	3386.1	3362.5	3351.1	3333.4
75°	3825.8	3585.0	3389.4	3251.4	3158.2	3130.3	3110.1	3109.0
77.5°	3469.6	3291.9	3076.3	2930.1	2816.6	2770.4	2749.8	2749.2
80°	2789.1	2523.2	2365.5	2277.4	2140.4	2100.9	2059.0	2043.3
82.5°	1686.7	1318.0	1071.6	952.3	886.1	729.9	654.9	619.5
85°	392.9	279.1	192.4	126.3	91.0	72.3	55.6	49.0
87.5°	26.5	20.9	18.6	15.1	11.4	11.2	6.9	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)