

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: P179973

Luminaire Tested: **ICM-F02-LED-E1-5MQ**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P179973  
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: ICM-F02-LED-E1-5MQ  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4951.3 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

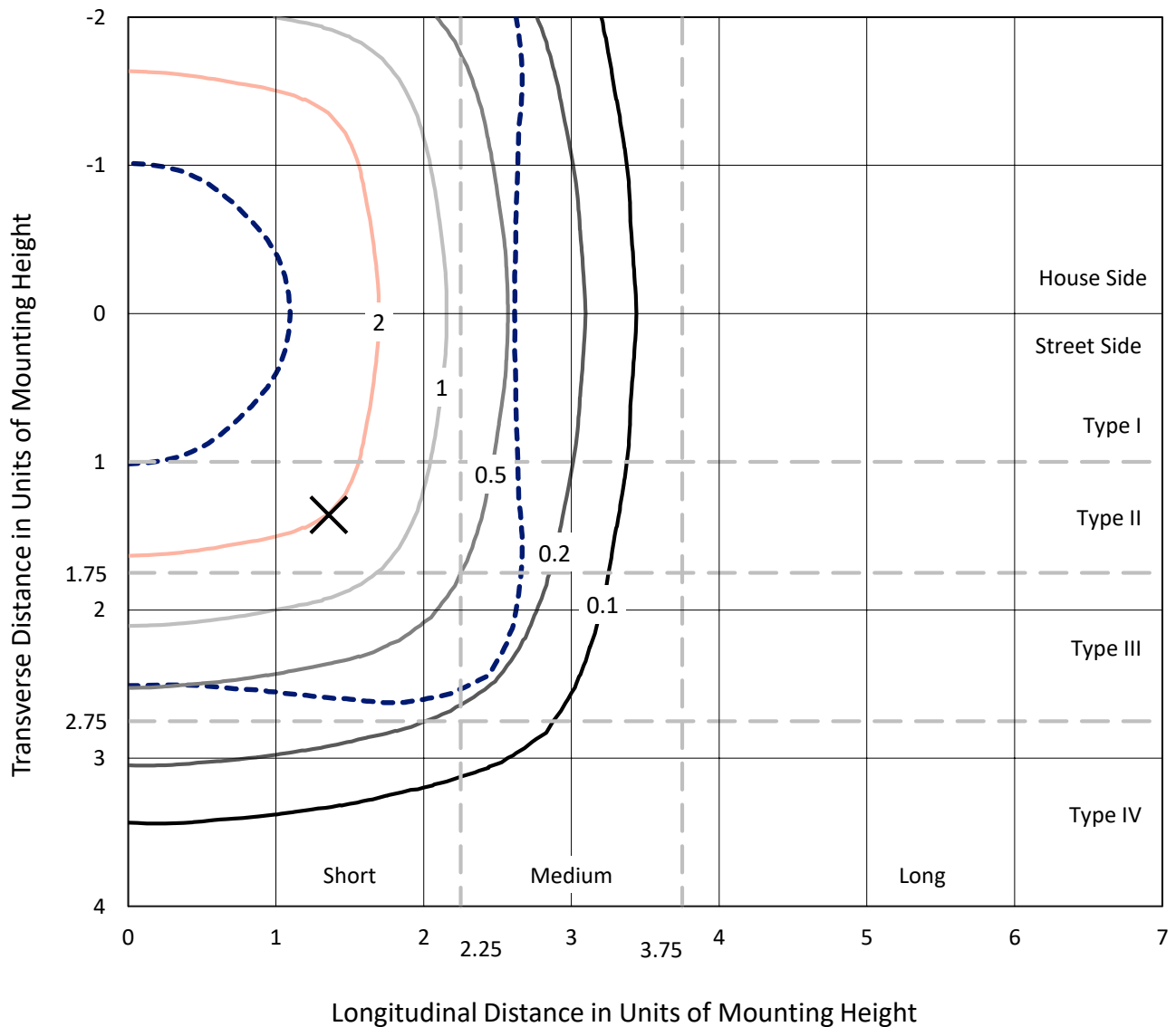
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

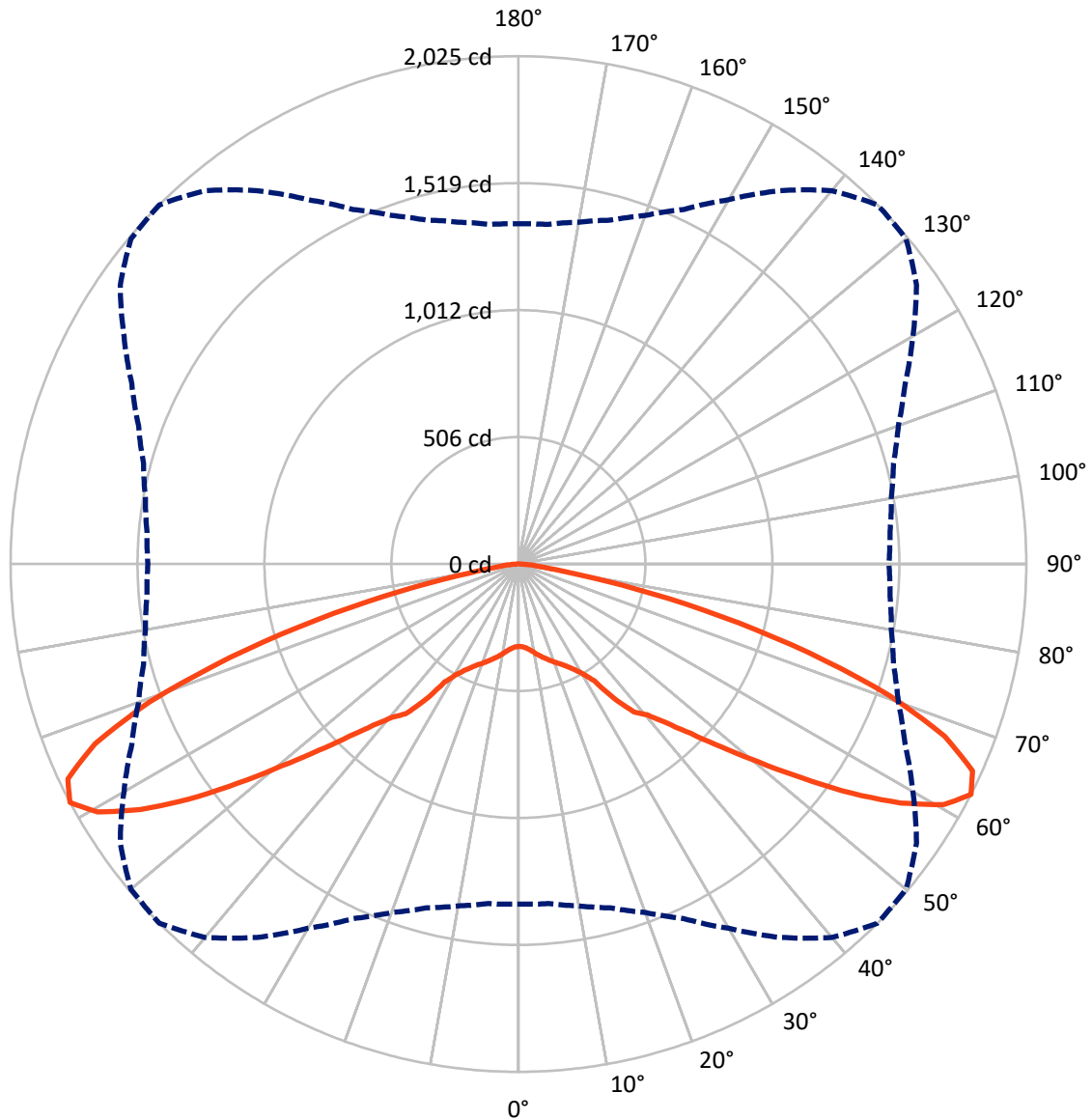
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.7 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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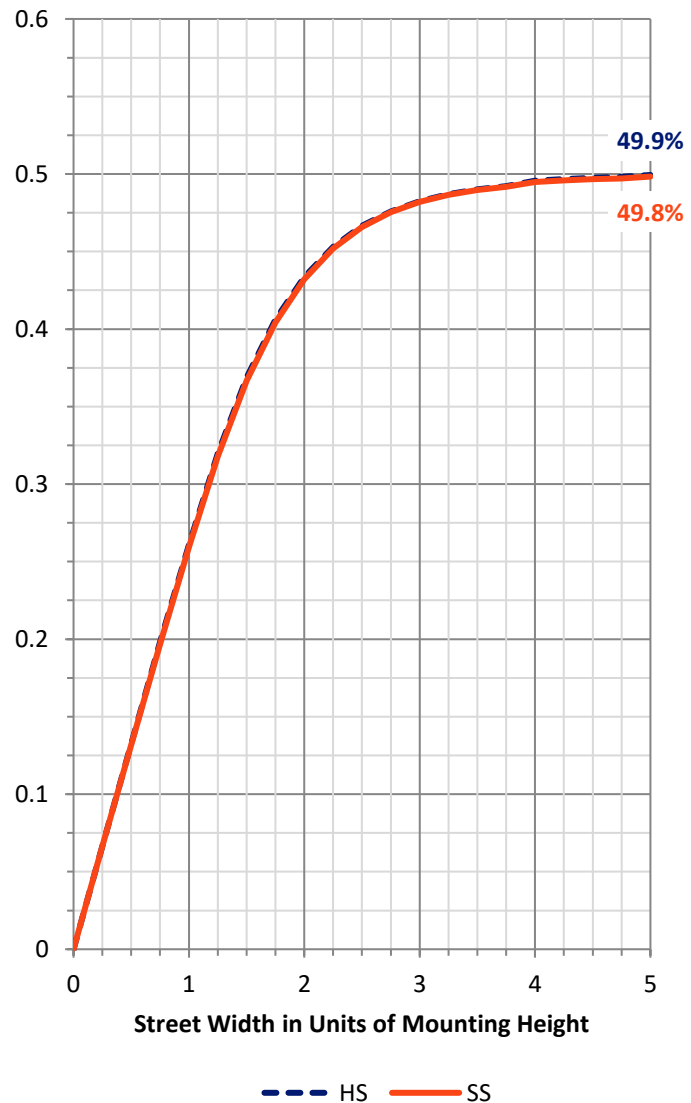
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2475.7	0.0	2475.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2475.7	0.0	2475.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4951.3	0.0	4951.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.9	0.7
10°-20°	111.3	2.2
20°-30°	215.3	4.3
30°-40°	416.8	8.4
40°-50°	752.6	15.2
50°-60°	1308.7	26.4
60°-70°	1485.7	30.0
70°-80°	576.0	11.6
80°-90°	52.0	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°	4951.3	100.0
0°-180°	4951.3	100.0



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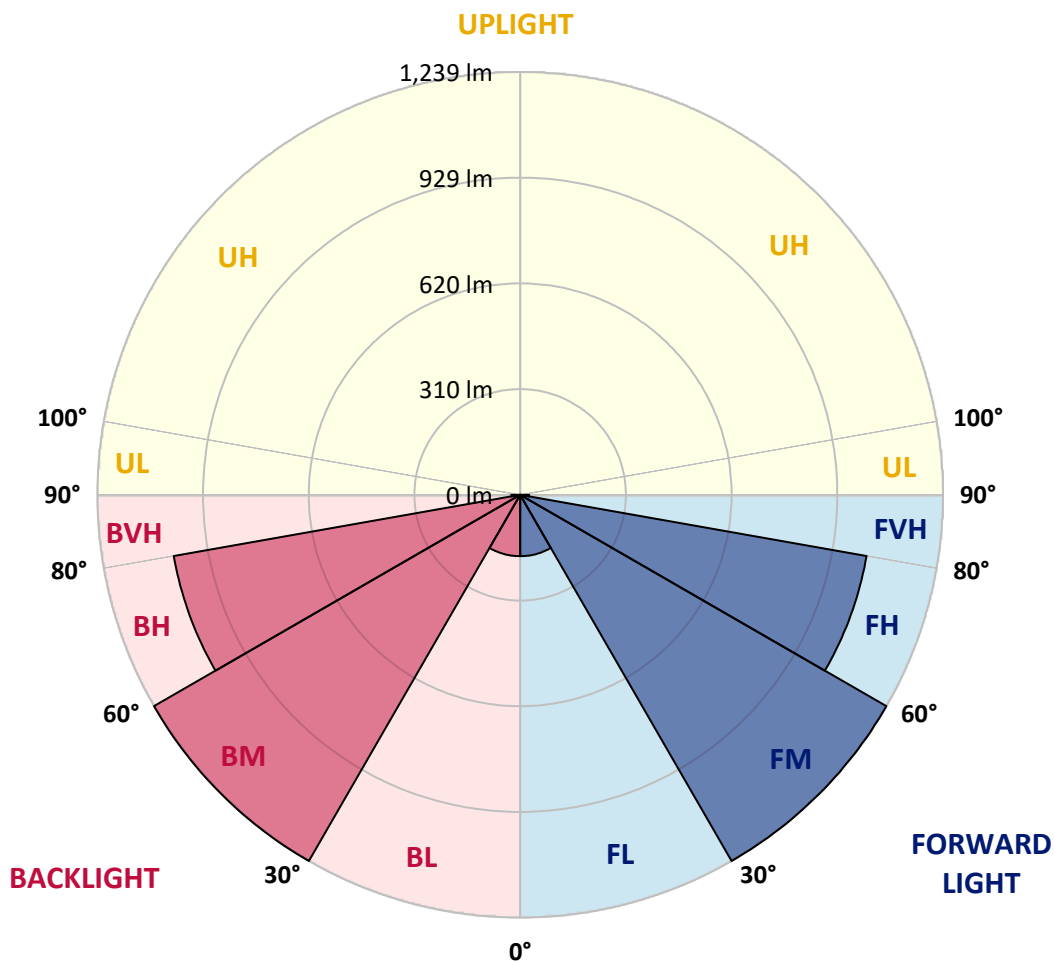
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.8	3.6			
FM (30°-60°)	1239.1	25.0			
FH (60°-80°)	1030.8	20.8			G1/1800
FVH (80°-90°)	26.0	0.5			G1/100
BL (0°-30°)	179.8	3.6	B1/500		
BM (30°-60°)	1239.1	25.0	B2/2500		
BH (60°-80°)	1030.8	20.8	B3/2500		G1/1800
BVH (80°-90°)	26.0	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°	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7
2.5°	330.7	331.7	331.5	331.0	331.0	331.0	330.8	330.0	329.7	330.2	330.7
5°	338.4	338.4	338.4	338.4	337.9	337.9	337.4	336.9	337.1	336.6	336.4
7.5°	350.2	349.4	349.4	349.1	349.2	348.7	347.9	346.9	347.2	346.8	346.6
10°	364.0	364.3	363.5	364.3	363.0	362.8	361.7	361.2	360.9	360.2	360.2
12.5°	380.7	379.9	379.9	379.4	378.8	378.3	376.7	376.6	375.5	375.1	374.2
15°	396.3	396.0	395.0	394.0	393.7	393.2	391.4	390.3	390.1	388.8	387.8
17.5°	411.9	411.4	410.0	409.5	408.6	407.8	406.2	404.7	403.9	403.4	402.1
20°	428.5	428.0	426.7	425.7	424.4	423.4	421.0	419.7	419.0	418.2	417.3
22.5°	449.2	448.2	446.1	444.4	441.5	440.6	437.5	435.7	434.4	433.4	432.8
25°	471.7	472.0	469.2	466.9	463.5	460.7	456.9	454.9	453.6	452.6	452.3
27.5°	499.9	500.2	497.7	494.3	489.2	486.1	481.0	478.4	477.7	476.7	476.4
30°	544.5	542.1	537.9	532.4	527.8	521.1	513.7	511.2	508.7	507.9	507.9
32.5°	626.3	625.1	621.6	608.2	602.1	588.2	575.2	567.7	559.3	555.2	552.7
35°	683.7	683.2	680.4	675.7	672.0	669.1	661.4	660.1	658.6	658.6	660.7
37.5°	726.0	722.9	722.4	723.2	722.1	722.6	728.7	737.2	744.4	747.9	747.5
40°	788.5	784.1	786.6	784.8	782.5	782.0	784.0	787.4	790.7	790.7	790.0
42.5°	870.1	872.1	873.1	865.7	860.8	859.5	864.4	863.4	866.8	865.5	862.1
45°	991.4	990.1	988.3	979.4	971.7	965.6	966.8	965.0	965.3	963.3	960.8
47.5°	1113.8	1118.1	1110.7	1106.3	1097.7	1093.3	1096.9	1093.8	1099.7	1088.9	1083.8
50°	1232.6	1235.6	1233.0	1226.9	1226.9	1233.1	1237.4	1243.0	1251.3	1238.9	1220.5
52.5°	1329.8	1332.3	1336.2	1341.3	1353.9	1366.9	1385.3	1405.0	1420.7	1418.4	1397.4
55°	1389.2	1392.3	1398.7	1416.4	1438.9	1473.1	1514.9	1560.8	1596.5	1614.0	1598.5
57.5°	1409.1	1411.5	1428.9	1450.1	1485.2	1536.2	1606.0	1685.0	1754.0	1797.8	1790.9
60°	1404.6	1404.6	1422.2	1451.4	1500.5	1568.2	1667.0	1776.5	1882.0	1947.5	1937.8
62.5°	1356.2	1358.7	1384.1	1419.2	1478.5	1559.5	1677.2	1817.1	1943.4	2024.8	2016.8
65°	1250.1	1251.9	1279.4	1321.1	1387.4	1483.2	1611.9	1767.1	1911.6	1990.0	1975.1
67.5°	1078.9	1080.8	1103.0	1150.1	1220.3	1320.4	1459.4	1630.1	1771.6	1833.6	1789.0
70°	858.2	863.4	877.8	927.6	980.8	1079.0	1206.9	1377.7	1511.3	1569.9	1520.8
72.5°	584.9	598.0	615.4	659.7	710.6	792.0	893.9	1037.8	1144.9	1212.8	1169.0
75°	329.5	347.9	353.3	386.8	428.7	493.0	567.4	670.7	779.0	834.0	781.3
77.5°	142.3	157.4	164.1	179.7	212.5	239.4	284.7	354.2	438.0	476.7	413.4
80°	70.1	73.7	76.5	81.4	90.6	99.3	120.7	151.3	185.6	194.3	154.6
82.5°	54.2	56.8	61.8	65.5	67.8	70.1	72.2	76.3	79.6	81.4	76.8
85°	38.1	41.5	46.9	51.2	53.8	55.5	57.3	58.6	55.5	50.6	53.2
87.5°	10.0	13.0	18.2	19.7	22.2	23.5	23.1	23.8	21.5	15.6	17.5
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°	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7
2.5°	330.4	330.2	330.4	330.4	330.4	330.2	330.2	330.2
5°	336.4	336.4	336.6	336.1	336.1	336.4	336.1	335.8
7.5°	346.3	346.0	346.0	345.9	346.0	345.9	345.9	345.6
10°	359.6	359.2	359.4	358.7	358.6	358.3	358.3	358.3
12.5°	374.0	373.2	373.5	372.7	371.4	371.7	371.9	371.7
15°	387.8	387.0	386.2	385.8	385.0	385.3	385.3	385.0
17.5°	401.9	400.4	400.1	399.4	399.1	399.1	399.1	399.4
20°	416.5	415.4	415.2	414.4	414.1	414.9	415.2	414.7
22.5°	432.1	431.6	432.1	431.6	432.4	432.8	433.1	432.6
25°	451.7	451.3	452.1	453.9	454.9	455.4	456.7	456.2
27.5°	477.2	476.7	478.4	480.9	482.5	485.0	486.3	486.9
30°	510.0	512.3	513.2	518.3	519.4	523.5	523.5	525.3
32.5°	557.6	561.9	569.5	577.5	588.5	596.5	596.5	600.6
35°	662.0	663.8	669.6	670.9	673.2	675.8	673.2	675.3
37.5°	742.1	734.1	728.6	720.7	715.7	715.7	716.3	715.7
40°	783.1	779.9	777.4	770.8	769.7	769.5	769.5	770.5
42.5°	856.2	848.7	844.7	839.1	837.2	836.8	836.5	837.0
45°	951.4	939.4	928.4	922.8	918.0	913.3	914.9	914.9
47.5°	1062.3	1043.6	1025.7	1016.0	1007.5	1003.7	1001.1	1000.4
50°	1197.2	1171.1	1148.1	1129.9	1117.6	1117.4	1118.6	1110.4
52.5°	1362.6	1321.3	1292.7	1268.1	1256.6	1255.4	1251.2	1246.6
55°	1545.9	1496.9	1449.6	1423.3	1408.2	1400.0	1395.1	1387.4
57.5°	1734.8	1669.0	1600.9	1558.7	1532.1	1513.6	1503.8	1499.5
60°	1880.4	1790.5	1700.7	1632.9	1588.6	1561.1	1544.4	1537.4
62.5°	1937.8	1815.9	1700.8	1611.6	1547.6	1509.8	1487.0	1477.0
65°	1869.4	1725.0	1594.0	1495.6	1424.3	1382.0	1357.2	1346.4
67.5°	1678.5	1550.9	1408.4	1310.6	1237.1	1195.4	1168.6	1160.6
70°	1407.1	1276.8	1140.7	1053.4	987.8	953.8	925.9	922.5
72.5°	1057.5	945.1	828.3	756.1	703.4	647.1	632.7	639.9
75°	677.9	572.7	468.7	403.7	355.5	301.8	281.1	286.1
77.5°	321.0	248.6	179.4	138.8	116.5	99.5	95.3	92.7
80°	119.1	96.6	85.2	80.8	77.8	75.0	72.9	70.6
82.5°	77.0	75.3	72.9	72.2	69.9	66.2	59.6	56.8
85°	57.6	57.6	54.5	54.8	53.0	48.4	42.2	38.9
87.5°	16.9	15.1	13.9	12.8	12.6	11.3	8.2	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)