

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: P180228

Luminaire Tested: **ICS-E02-LED-E1-5XQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180228
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: ICS-E02-LED-E1-5XQ
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5725 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

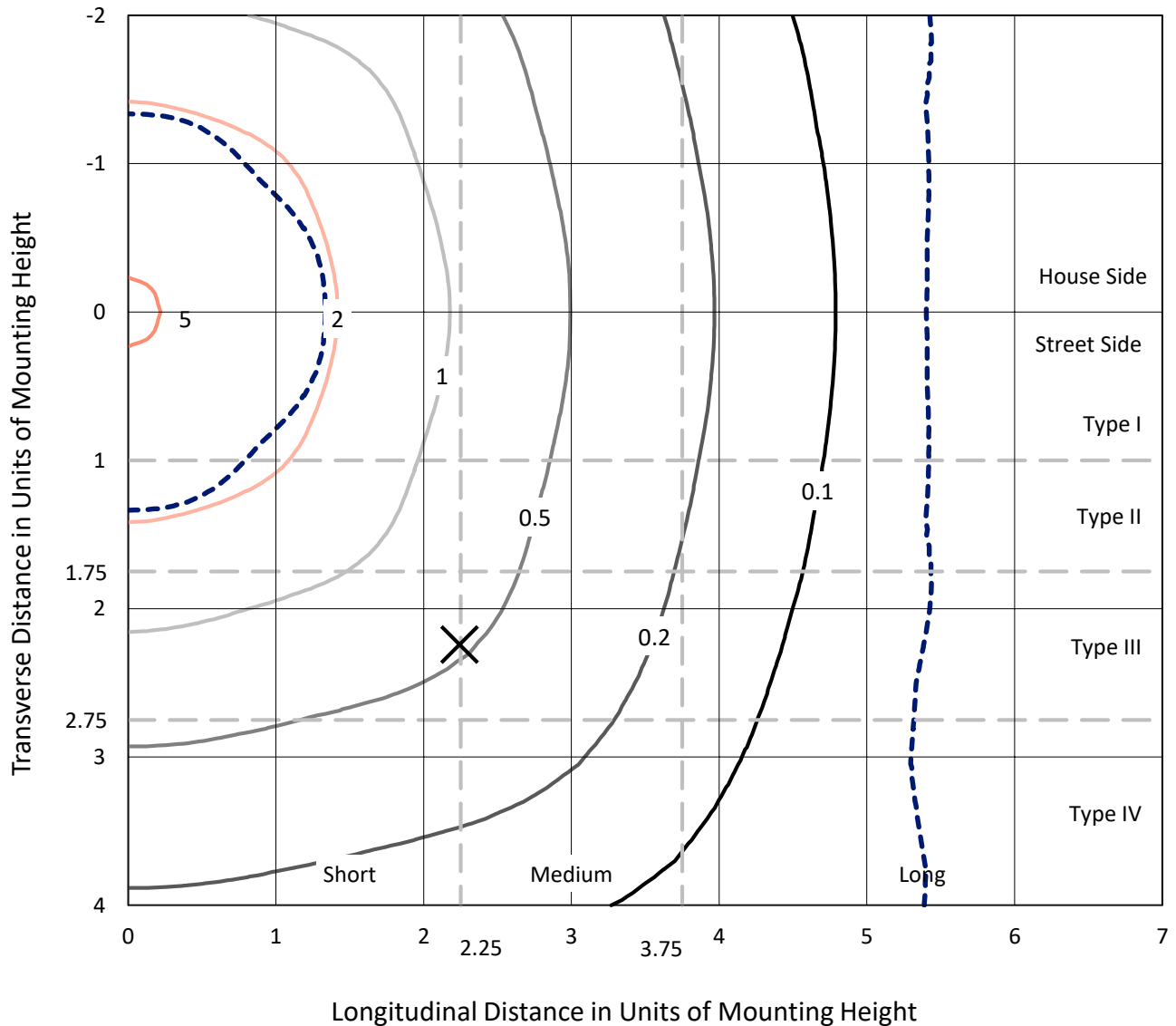
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

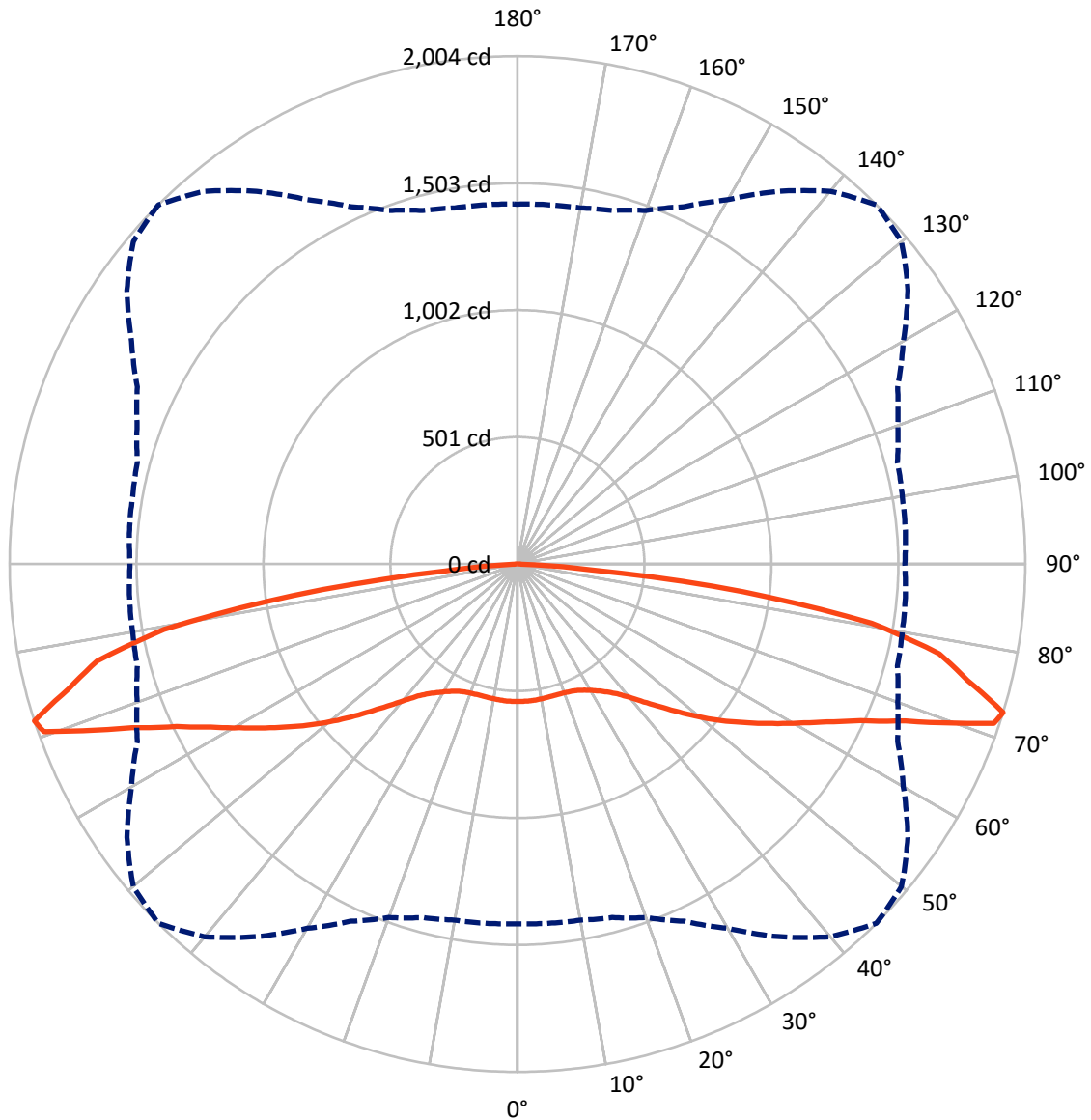
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 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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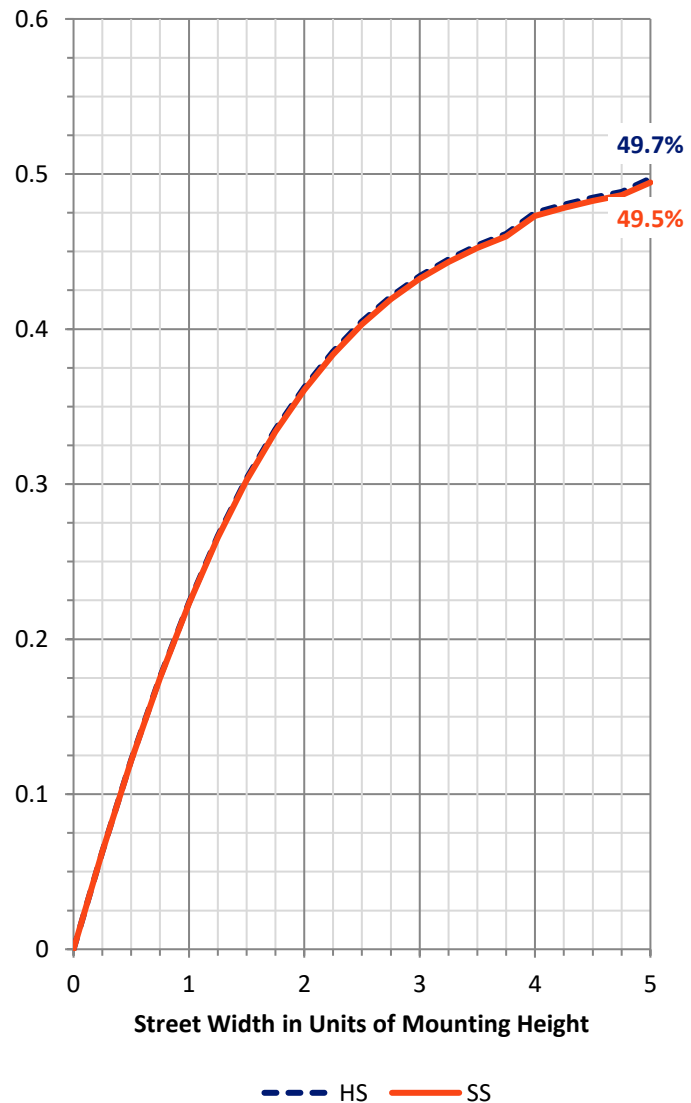
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2862.5	0.0	2862.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2862.5	0.0	2862.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5725.0	0.0	5725.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	0.9
10°-20°	152.9	2.7
20°-30°	256.1	4.5
30°-40°	390.4	6.8
40°-50°	623.3	10.9
50°-60°	958.5	16.7
60°-70°	1395.6	24.4
70°-80°	1572.1	27.5
80°-90°	324.5	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°	5725.0	100.0
0°-180°	5725.0	100.0



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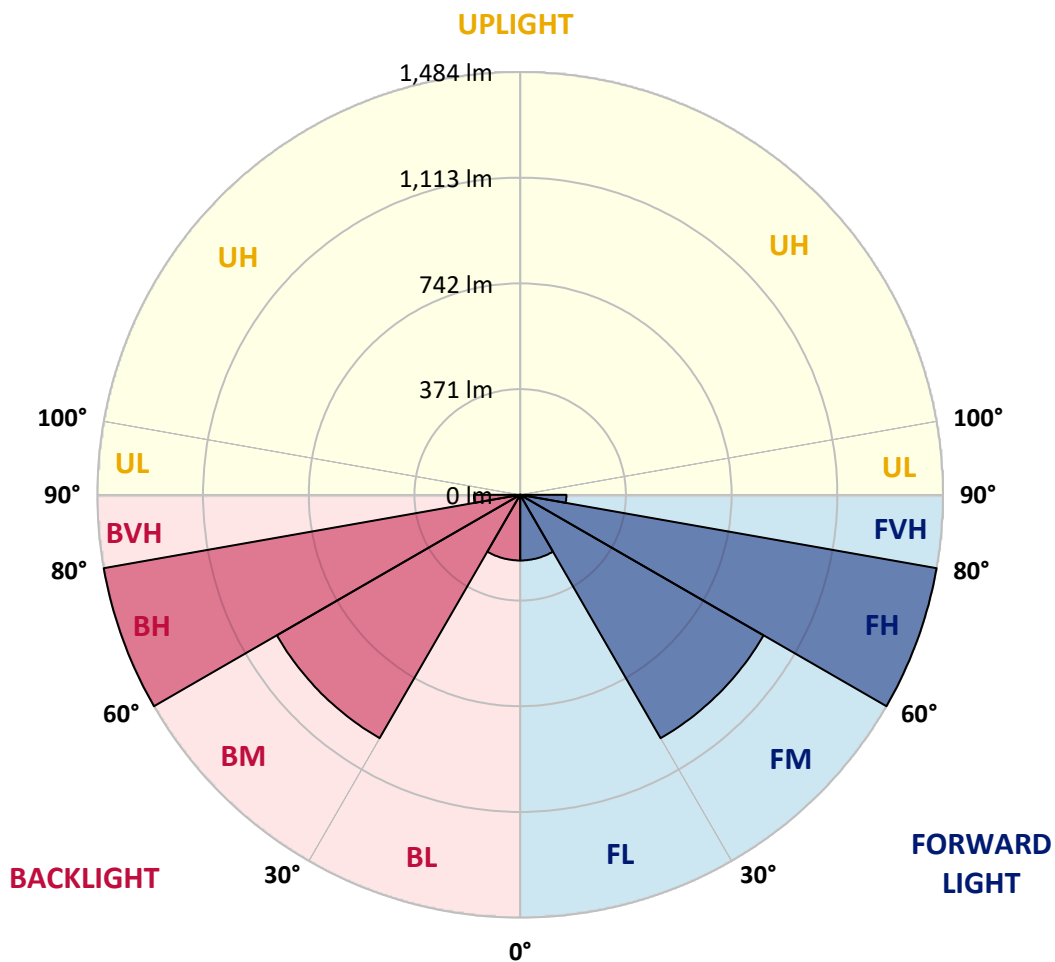
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.3	4.0			
FM	(30°-60°)	986.1	17.2			
FH	(60°-80°)	1483.8	25.9			G1/1800
FVH	(80°-90°)	162.3	2.8			G2/225
BL	(0°-30°)	230.3	4.0	B1/500		
BM	(30°-60°)	986.1	17.2	B1/1000		
BH	(60°-80°)	1483.8	25.9	B3/2500		G1/1800
BVH	(80°-90°)	162.3	2.8			G2/225
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°	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4
2.5°	543.3	543.6	543.4	543.2	543.3	543.2	542.8	542.7	541.6	542.2	543.2
5°	543.3	543.0	542.8	542.7	542.7	543.2	542.7	542.2	542.1	542.4	542.0
7.5°	543.0	542.4	542.1	542.0	542.1	542.2	541.8	541.2	541.7	541.2	540.6
10°	542.1	541.7	541.8	541.2	541.4	541.2	540.6	540.2	540.4	540.0	539.2
12.5°	542.4	541.6	541.5	541.2	541.0	540.9	540.2	539.4	539.6	539.2	538.5
15°	542.4	542.0	541.8	541.2	541.0	540.8	539.8	539.6	539.6	539.1	538.2
17.5°	542.7	542.4	542.4	541.6	541.4	541.2	540.2	539.7	540.2	539.2	538.6
20°	543.6	543.3	543.4	543.0	542.4	542.4	541.7	541.4	541.5	541.4	539.7
22.5°	545.4	545.4	545.7	545.6	545.4	545.6	544.9	544.9	545.1	545.1	543.8
25°	550.5	550.4	550.6	550.7	550.8	551.8	551.4	551.2	552.0	552.0	550.6
27.5°	560.1	559.8	560.1	560.4	561.2	562.5	562.2	562.7	563.8	563.6	562.4
30°	571.2	570.9	571.6	572.6	573.2	575.2	574.4	576.6	577.7	578.6	577.6
32.5°	587.4	587.4	588.8	589.4	590.7	592.8	593.1	594.9	596.2	597.8	596.7
35°	609.0	608.7	609.8	610.8	612.4	614.4	615.2	617.6	619.7	620.7	618.8
37.5°	642.0	640.3	642.3	642.9	644.2	644.7	646.8	649.8	652.0	651.8	650.4
40°	686.7	686.4	685.6	684.8	686.8	687.6	687.6	691.7	695.2	694.7	694.5
42.5°	738.9	737.6	736.6	736.6	737.8	738.2	742.8	745.8	748.3	748.9	748.3
45°	795.0	793.7	793.9	793.4	793.8	795.8	798.4	804.0	808.8	809.0	806.4
47.5°	855.3	851.1	854.4	849.8	852.6	854.1	860.9	869.0	877.4	878.9	876.6
50°	916.6	916.1	915.8	914.9	916.2	919.6	927.8	940.6	948.7	954.1	950.5
52.5°	983.4	981.2	980.2	978.7	980.0	986.5	998.0	1009.2	1023.7	1029.8	1024.9
55°	1048.6	1047.9	1043.9	1043.8	1046.6	1056.7	1069.3	1082.9	1098.7	1105.6	1103.8
57.5°	1115.5	1111.1	1109.9	1108.1	1113.8	1123.3	1138.8	1163.4	1179.7	1187.5	1183.0
60°	1180.9	1177.6	1175.1	1174.4	1178.4	1191.6	1213.8	1243.3	1263.6	1273.8	1266.6
62.5°	1251.1	1249.0	1246.0	1242.6	1250.8	1267.8	1295.4	1328.1	1357.9	1370.5	1359.6
65°	1338.4	1334.0	1330.8	1326.4	1333.2	1354.4	1389.1	1435.2	1475.2	1489.9	1482.1
67.5°	1430.5	1426.4	1426.8	1424.0	1436.0	1465.6	1510.3	1572.8	1626.6	1651.6	1636.9
70°	1510.9	1513.2	1513.8	1524.7	1545.4	1590.4	1664.8	1762.8	1844.2	1882.4	1866.7
71°	1487.2	1492.2	1499.8	1511.2	1546.9	1600.2	1701.7	1820.4	1917.6	1982.4	1960.6
72.5°	1420.0	1423.0	1426.9	1444.3	1484.6	1555.1	1659.7	1795.3	1920.2	2004.1	1978.9
75°	1322.8	1325.6	1327.0	1339.2	1375.9	1437.4	1533.1	1653.4	1763.6	1835.0	1828.0
77.5°	1176.1	1176.6	1187.1	1205.8	1247.1	1317.4	1418.2	1543.0	1646.6	1702.2	1666.9
80°	844.6	838.8	849.6	873.8	924.8	1005.5	1108.8	1251.2	1366.3	1418.2	1363.6
82.5°	321.3	338.7	366.2	406.0	423.3	513.0	609.3	693.0	790.0	898.3	871.1
85°	34.5	38.8	48.7	60.4	76.4	105.6	146.0	199.2	245.6	288.6	256.2
87.5°	12.9	13.2	14.7	17.0	17.2	18.0	19.2	22.4	20.8	18.0	14.6
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°	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4
2.5°	542.4	542.6	542.4	542.6	542.6	542.0	542.1	541.8
5°	542.2	541.8	542.0	542.1	542.0	542.2	541.8	542.1
7.5°	541.5	540.6	540.9	540.9	540.6	541.0	540.8	540.6
10°	540.0	538.8	539.4	539.1	539.0	539.1	539.1	539.1
12.5°	538.7	537.9	538.0	537.9	537.8	538.2	538.0	538.2
15°	538.4	537.2	537.0	536.7	536.8	537.2	537.2	537.6
17.5°	538.1	536.6	536.4	536.1	536.2	536.8	537.0	536.7
20°	539.0	537.8	537.4	537.2	537.0	537.8	537.6	537.6
22.5°	543.2	541.6	541.5	540.3	539.8	540.3	540.0	540.0
25°	549.9	548.1	547.5	545.8	544.6	544.6	544.2	543.9
27.5°	562.0	559.4	558.8	557.4	555.8	556.0	555.2	555.0
30°	576.2	573.8	571.7	569.7	567.8	567.0	566.0	565.8
32.5°	594.6	591.9	589.4	586.9	584.2	583.2	581.4	580.5
35°	617.2	613.7	610.6	609.0	606.3	604.9	603.8	605.1
37.5°	648.9	644.6	643.0	641.1	639.3	637.2	637.7	637.2
40°	692.7	688.8	687.3	683.8	683.4	681.0	682.5	681.0
42.5°	746.8	739.6	738.6	735.9	735.0	733.7	734.2	733.2
45°	805.8	799.3	798.2	793.8	793.9	790.8	792.0	792.0
47.5°	872.1	865.4	859.8	856.7	855.4	853.5	854.6	854.4
50°	940.6	931.4	925.2	919.1	916.4	917.2	915.0	918.6
52.5°	1014.1	1000.4	991.7	985.9	980.8	981.9	982.2	983.2
55°	1090.2	1072.8	1060.2	1052.5	1047.8	1048.2	1049.5	1050.7
57.5°	1166.6	1144.9	1127.8	1116.4	1113.4	1114.8	1114.8	1114.6
60°	1246.0	1219.9	1197.8	1184.9	1182.2	1181.5	1187.4	1185.4
62.5°	1331.2	1299.8	1277.1	1260.6	1256.6	1259.4	1264.6	1263.4
65°	1444.2	1400.8	1371.4	1355.0	1348.4	1351.2	1358.2	1357.9
67.5°	1589.8	1529.2	1490.4	1469.4	1464.6	1467.9	1471.8	1475.5
70°	1807.6	1721.0	1665.6	1620.1	1600.6	1596.8	1600.8	1600.9
71°	1884.2	1784.8	1696.4	1641.0	1609.0	1595.5	1596.6	1589.8
72.5°	1881.1	1758.6	1655.2	1597.2	1552.8	1542.0	1536.7	1528.6
75°	1754.4	1644.0	1554.2	1491.0	1448.2	1435.4	1426.2	1425.7
77.5°	1591.0	1509.6	1410.7	1343.6	1291.6	1270.4	1261.0	1260.7
80°	1279.0	1157.0	1084.8	1044.4	981.5	963.4	944.2	937.0
82.5°	773.4	604.4	491.4	436.6	406.4	334.7	300.3	284.1
85°	180.2	128.0	88.2	57.9	41.7	33.2	25.5	22.5
87.5°	12.2	9.6	8.5	6.9	5.2	5.1	3.2	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)