

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: P180128

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180128
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E02-LED-E1-5WQ
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5731.1 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

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

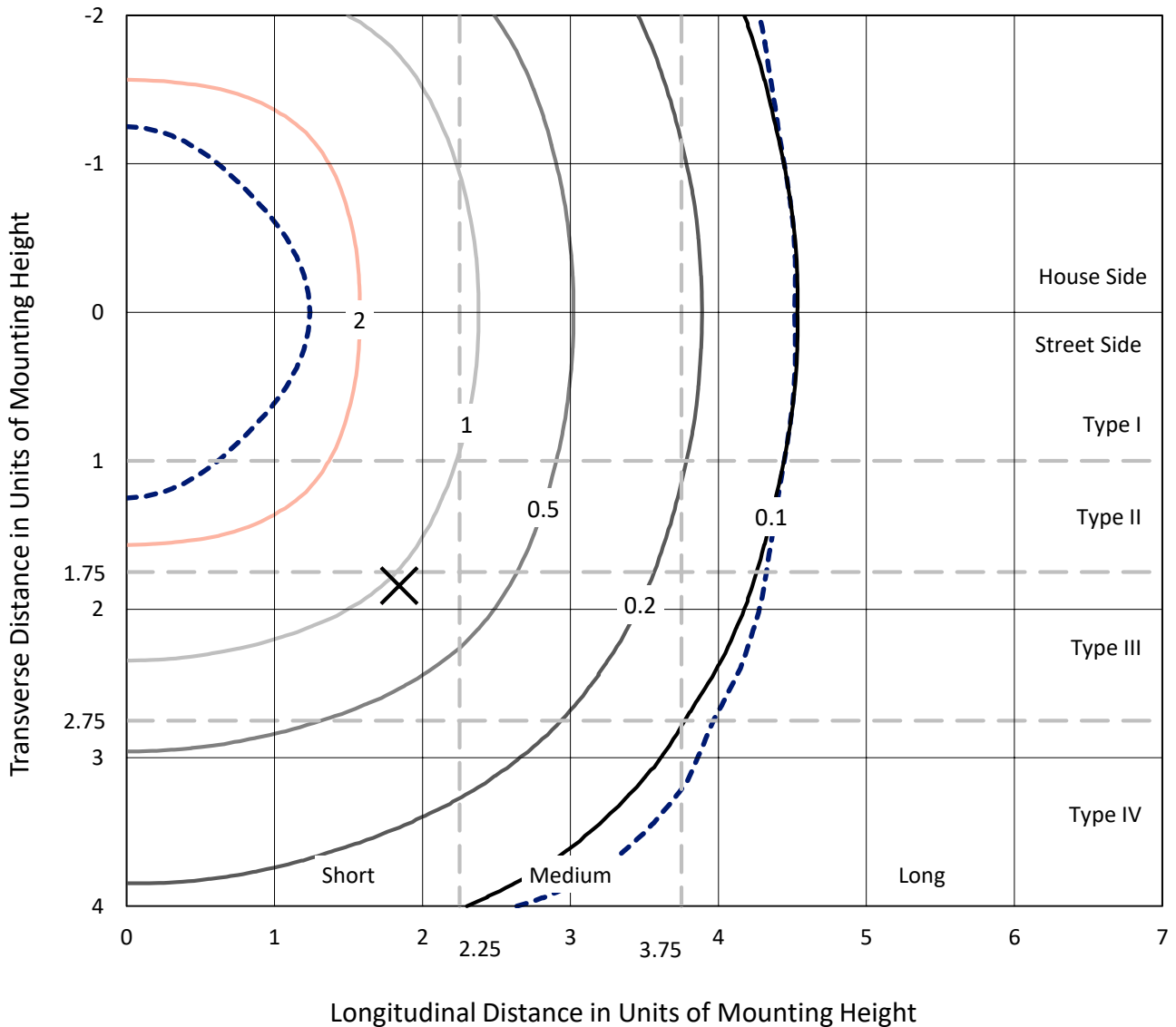


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Iso-Footcandle Lines of Horizontal Illumination

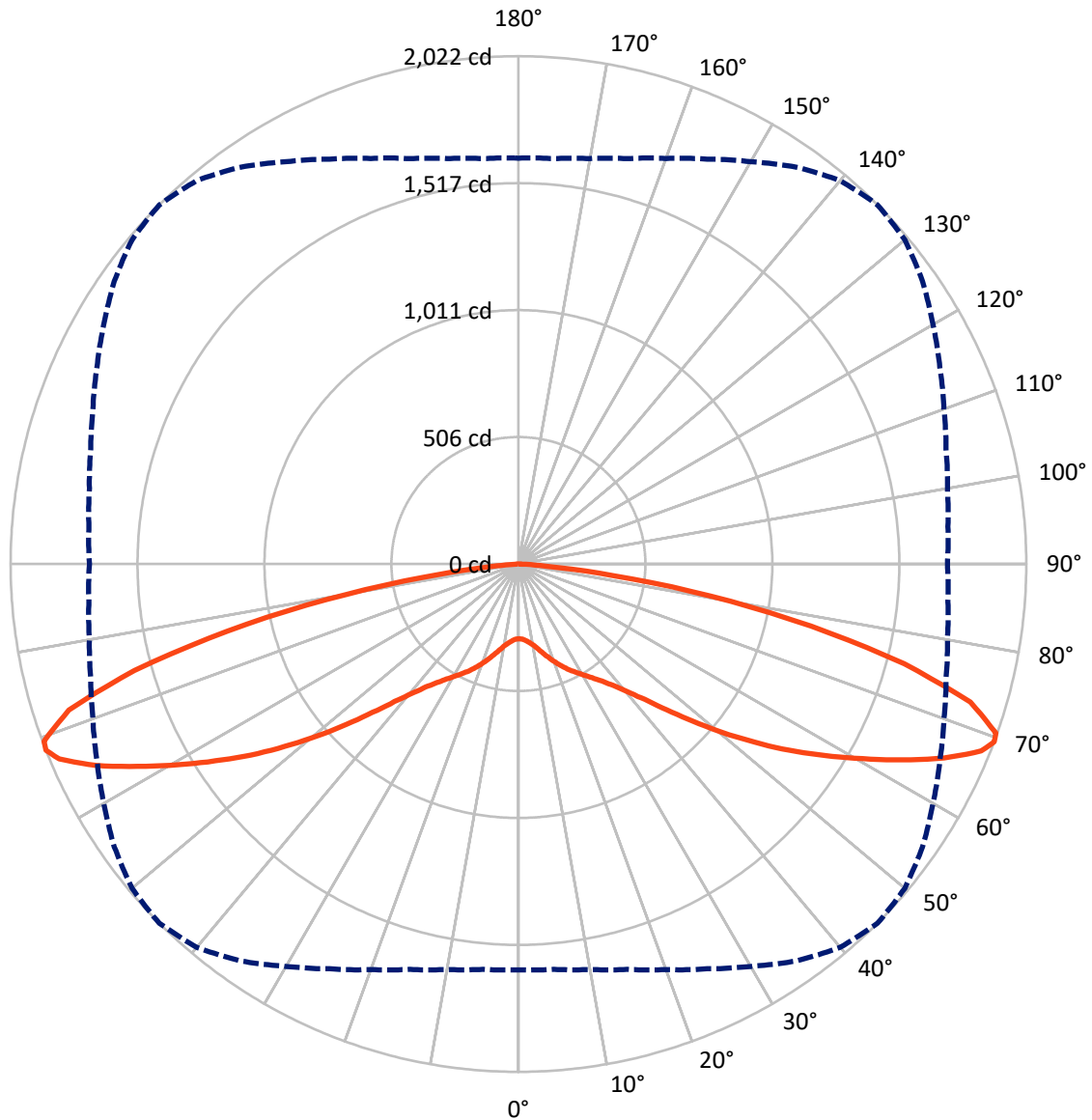
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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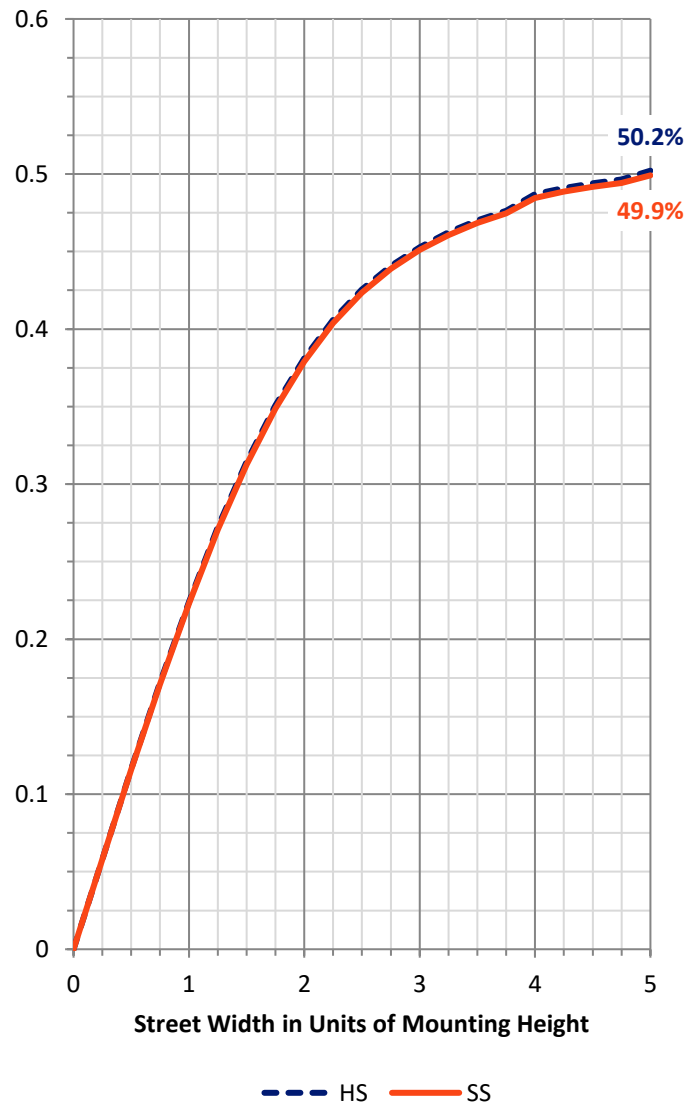
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2865.6	0.0	2865.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2865.6	0.0	2865.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5731.1	0.0	5731.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.9	0.5
10°-20°	105.5	1.8
20°-30°	213.7	3.7
30°-40°	358.2	6.3
40°-50°	631.9	11.0
50°-60°	1114.4	19.4
60°-70°	1701.4	29.7
70°-80°	1421.7	24.8
80°-90°	154.5	2.7
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°	5731.1	100.0
0°-180°	5731.1	100.0



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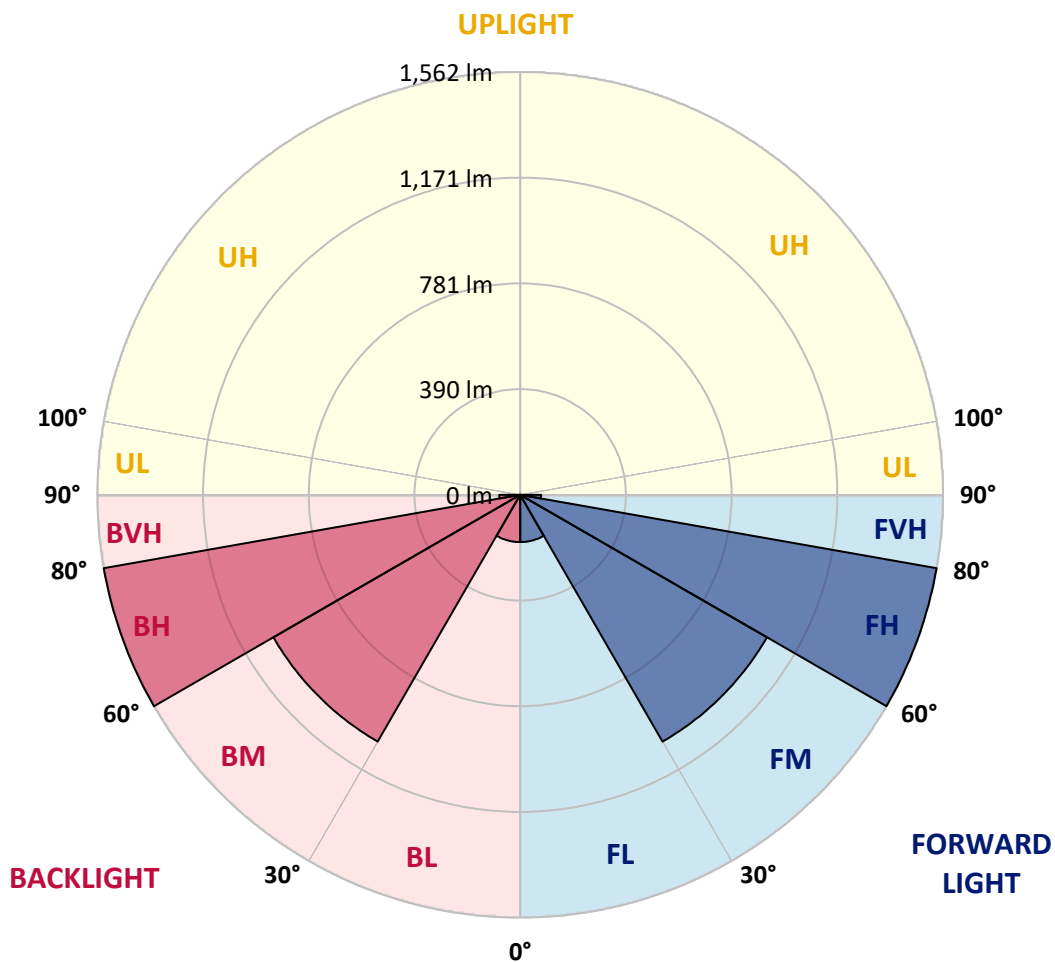
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	174.5	3.0			
FM (30°-60°)	1052.3	18.4			
FH (60°-80°)	1561.5	27.2			G1/1800
FVH (80°-90°)	77.2	1.3			G1/100
BL (0°-30°)	174.5	3.0	B1/500		
BM (30°-60°)	1052.3	18.4	B2/2500		
BH (60°-80°)	1561.5	27.2	B3/2500		G1/1800
BVH (80°-90°)	77.2	1.3			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°	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6
2.5°	300.0	300.6	300.0	300.0	300.0	300.0	300.0	299.4	299.4	299.4	300.0
5°	306.0	306.6	306.0	306.6	306.6	306.6	306.6	306.0	306.0	306.0	306.0
7.5°	315.6	315.6	315.6	316.2	315.6	315.6	316.2	315.6	315.6	315.6	315.6
10°	329.4	328.8	328.8	328.8	328.8	328.8	329.4	329.4	329.4	328.8	328.8
12.5°	346.2	345.6	346.2	346.2	346.8	346.8	346.8	346.8	346.8	346.8	346.2
15°	366.6	366.6	366.6	367.2	368.4	368.4	367.8	368.4	368.4	368.4	368.4
17.5°	389.4	390.6	389.4	390.0	390.6	390.0	391.2	391.8	392.4	391.8	390.0
20°	412.8	413.4	413.4	413.4	413.4	414.6	415.2	415.2	417.0	416.4	415.8
22.5°	435.0	436.2	436.2	436.8	436.8	438.6	438.6	438.6	439.8	441.0	439.8
25°	458.4	457.8	457.8	459.0	459.6	462.0	462.0	463.2	465.0	465.6	464.4
27.5°	479.4	478.8	478.8	480.6	481.2	484.2	484.2	486.6	487.8	488.4	487.2
30°	501.6	501.6	501.0	502.8	504.6	507.0	508.2	510.6	512.4	513.0	511.8
32.5°	528.0	526.8	527.4	528.6	529.8	532.2	534.0	537.0	539.4	540.0	538.8
35°	558.0	556.2	556.8	558.0	559.8	563.4	566.4	568.2	571.8	573.0	570.6
37.5°	591.0	591.6	591.0	594.0	597.0	601.2	604.8	607.2	610.8	612.6	610.8
40°	637.8	636.0	637.8	640.8	645.6	651.0	658.2	660.0	663.6	667.2	663.0
42.5°	698.4	697.2	701.4	703.8	709.2	715.2	724.2	729.0	734.4	736.8	733.2
45°	777.6	777.6	782.4	783.0	791.4	799.2	811.8	817.8	828.0	828.0	828.0
47.5°	865.2	868.8	871.8	877.8	883.8	898.2	910.8	924.1	933.7	934.9	933.1
50°	955.9	959.5	968.5	976.9	990.1	1008.1	1021.9	1039.3	1047.7	1054.9	1052.5
52.5°	1056.1	1056.7	1067.5	1078.3	1097.5	1117.3	1139.5	1157.5	1172.5	1179.1	1173.7
55°	1165.9	1167.1	1176.7	1188.1	1209.7	1232.5	1260.1	1278.7	1297.9	1309.9	1300.9
57.5°	1284.7	1285.3	1294.9	1308.7	1334.5	1357.3	1383.7	1410.1	1428.1	1438.9	1432.9
60°	1416.1	1419.1	1426.3	1443.7	1468.3	1492.3	1518.7	1542.1	1563.1	1574.5	1568.5
62.5°	1556.5	1559.5	1569.7	1583.5	1605.1	1631.5	1656.7	1686.7	1704.1	1716.7	1707.7
65°	1650.7	1656.1	1672.3	1690.9	1722.7	1756.9	1786.3	1827.1	1848.1	1863.1	1854.7
67.5°	1656.7	1659.7	1679.5	1707.7	1750.3	1801.9	1861.9	1925.5	1966.9	1986.7	1972.3
69°	1615.9	1620.1	1639.3	1671.1	1718.5	1778.5	1849.9	1929.1	1992.7	2022.1	2008.3
70°	1569.7	1578.7	1599.7	1634.5	1680.7	1743.7	1817.5	1902.1	1976.5	2016.7	2006.5
72.5°	1472.5	1474.9	1488.7	1516.3	1551.7	1603.9	1673.5	1753.3	1824.1	1881.7	1890.1
75°	1306.9	1314.7	1324.9	1343.5	1361.5	1399.3	1446.1	1500.7	1542.1	1586.5	1588.3
77.5°	987.7	1011.1	1018.9	1023.1	1030.9	1060.9	1101.7	1149.1	1183.3	1190.5	1189.3
80°	443.4	474.6	481.8	516.0	537.0	586.8	649.2	721.8	770.4	775.8	762.6
82.5°	87.0	93.0	108.6	135.6	184.8	214.2	255.0	306.0	352.8	379.8	363.6
85°	28.8	30.6	35.4	39.0	45.0	51.0	61.8	76.8	95.4	105.6	94.2
87.5°	11.4	11.4	13.2	14.4	15.6	15.6	15.6	14.4	13.8	11.4	10.2
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°	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6
2.5°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4
5°	306.0	305.4	305.4	304.8	304.8	304.8	304.8	304.8
7.5°	315.0	314.4	313.8	314.4	313.8	313.8	313.8	313.8
10°	328.8	327.6	327.0	326.4	326.4	326.4	325.8	325.8
12.5°	345.0	345.0	344.4	343.8	342.6	343.2	342.6	341.4
15°	367.2	366.0	365.4	364.8	363.6	363.6	363.6	363.0
17.5°	389.4	388.2	388.2	386.4	385.8	385.8	385.8	386.4
20°	414.0	412.2	411.0	409.8	408.6	409.2	408.0	409.2
22.5°	438.6	436.2	435.0	433.2	431.4	431.4	430.8	429.6
25°	462.6	459.6	458.4	456.6	454.2	454.2	453.0	451.8
27.5°	485.4	482.4	481.2	477.6	475.2	474.6	473.4	472.8
30°	510.6	507.0	505.2	501.6	498.0	497.4	495.6	495.6
32.5°	537.0	533.4	532.2	526.8	523.8	523.8	522.6	521.4
35°	570.0	564.6	563.4	558.0	553.8	553.8	552.6	553.2
37.5°	609.0	604.8	600.6	596.4	591.6	591.0	589.8	588.6
40°	661.2	656.4	651.6	645.6	641.4	640.2	638.4	637.8
42.5°	730.8	726.0	716.4	711.6	707.4	703.8	703.2	702.6
45°	819.6	813.6	807.0	798.0	792.6	784.8	783.6	780.6
47.5°	926.5	915.0	903.6	895.8	887.4	878.4	876.6	871.8
50°	1039.9	1030.9	1011.7	999.1	985.9	976.9	970.9	969.1
52.5°	1161.7	1144.9	1125.7	1108.9	1089.7	1077.7	1066.9	1063.9
55°	1288.9	1264.9	1240.9	1221.1	1201.9	1187.5	1177.3	1172.5
57.5°	1416.1	1389.7	1363.3	1341.7	1325.5	1306.9	1296.7	1294.3
60°	1548.7	1523.5	1496.5	1474.9	1455.1	1438.9	1432.9	1421.5
62.5°	1689.1	1662.7	1637.5	1616.5	1591.3	1579.9	1569.7	1563.1
65°	1827.1	1796.5	1764.7	1742.5	1717.3	1701.1	1688.5	1679.5
67.5°	1933.9	1887.7	1845.1	1807.9	1773.7	1748.5	1732.3	1723.9
69°	1963.9	1906.3	1851.7	1803.1	1762.9	1734.7	1716.7	1708.3
70°	1960.3	1896.7	1836.7	1783.3	1739.5	1709.5	1692.1	1676.5
72.5°	1849.3	1791.1	1724.5	1666.3	1626.7	1597.9	1580.5	1572.1
75°	1578.1	1539.1	1491.1	1446.1	1417.3	1400.5	1378.9	1379.5
77.5°	1149.1	1150.3	1117.9	1071.7	1039.3	1033.3	1023.7	1014.1
80°	712.8	655.8	618.6	568.8	532.2	500.4	486.6	456.6
82.5°	328.8	256.8	199.2	150.6	115.8	90.6	79.2	64.8
85°	73.2	55.8	46.2	37.2	31.8	29.4	24.0	22.2
87.5°	10.2	9.0	8.4	7.8	6.6	4.8	3.6	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)