

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: McGRAW-EDISON

Report Number: P197523

Luminaire Tested: **TT-C4-LED-E1-5CQ-PM-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115438)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-5CQ-PM-LWR-LW-7050
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6598.1 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 58
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

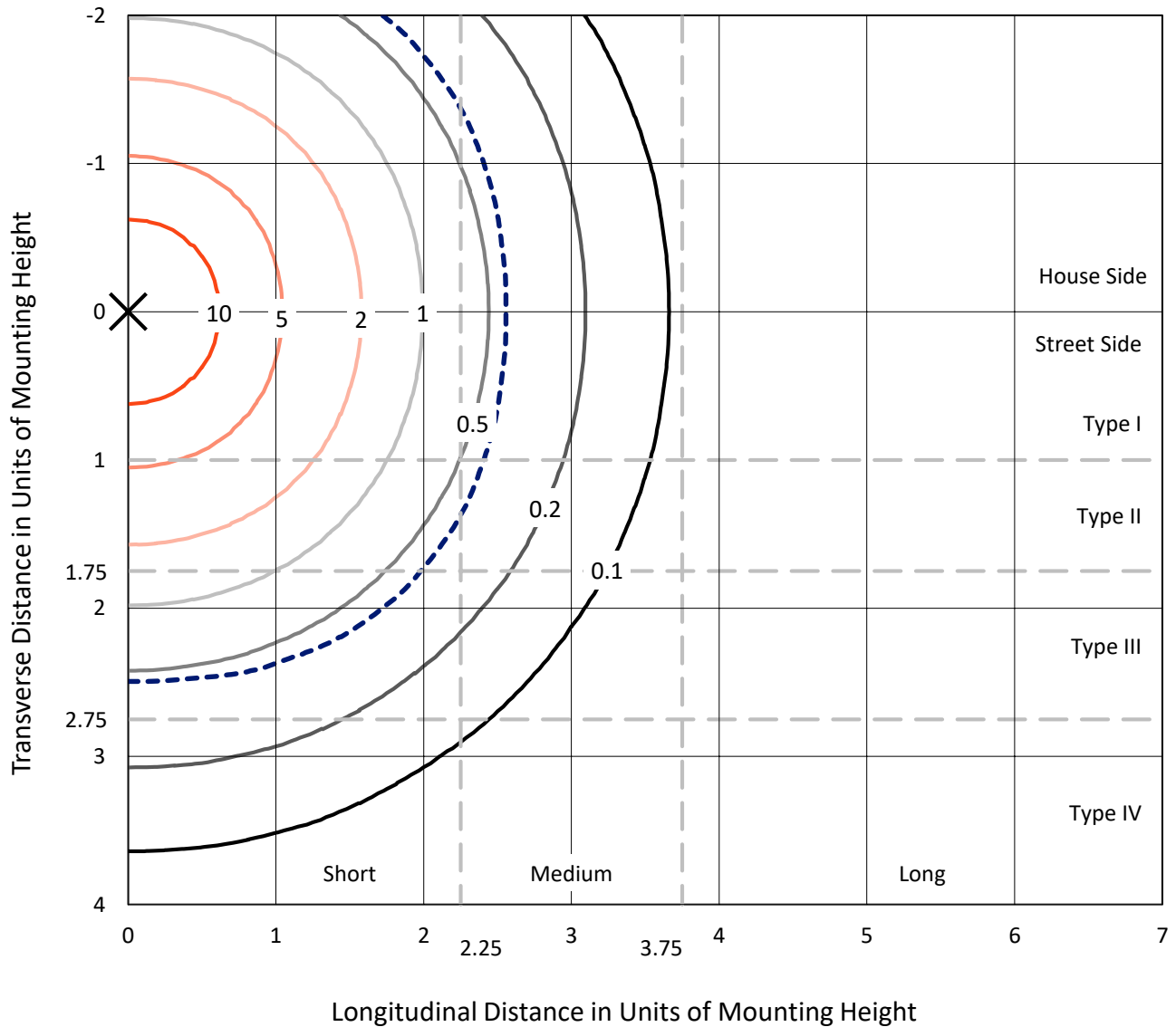


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Iso-Footcandle Lines of Horizontal Illumination

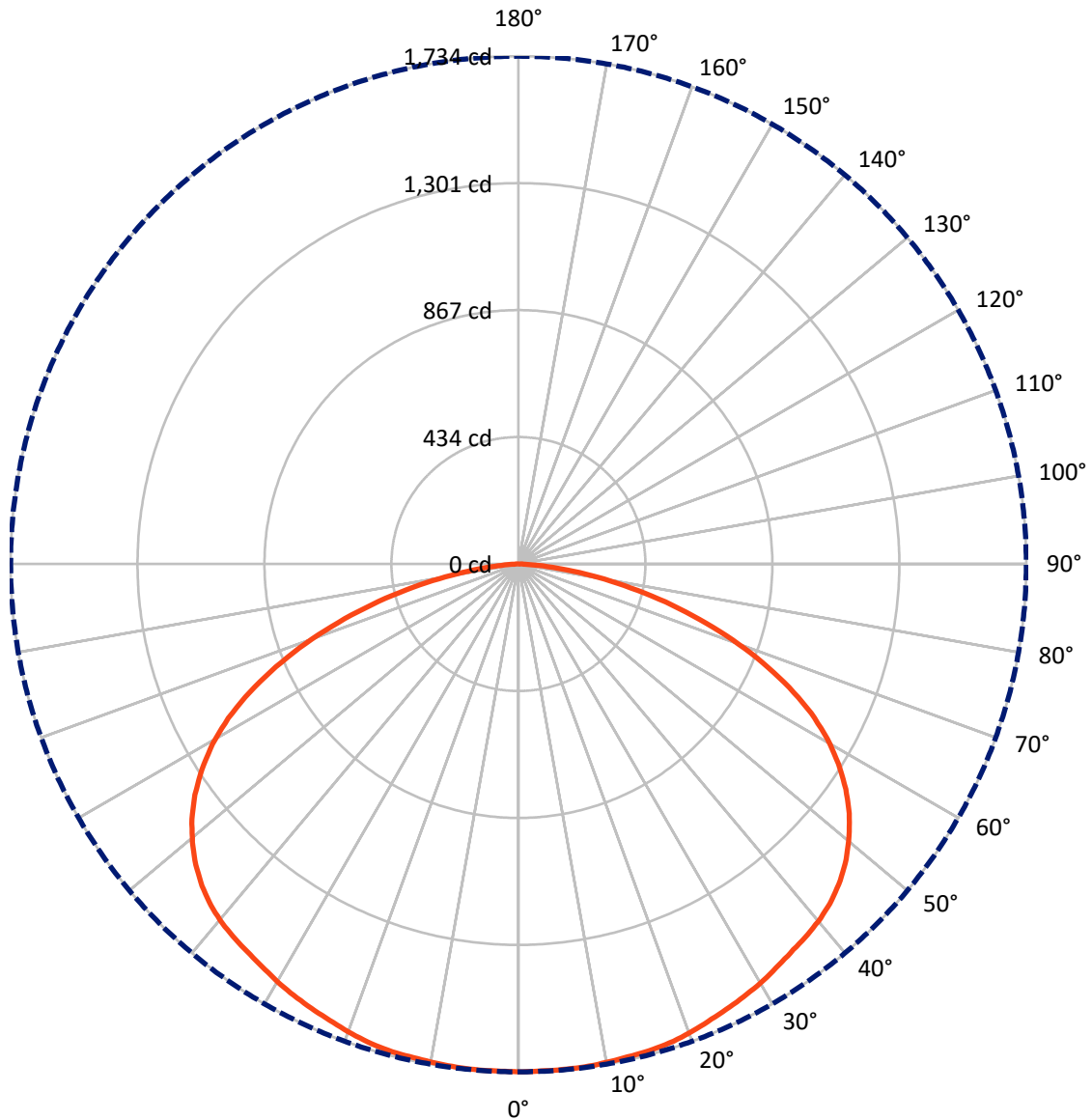
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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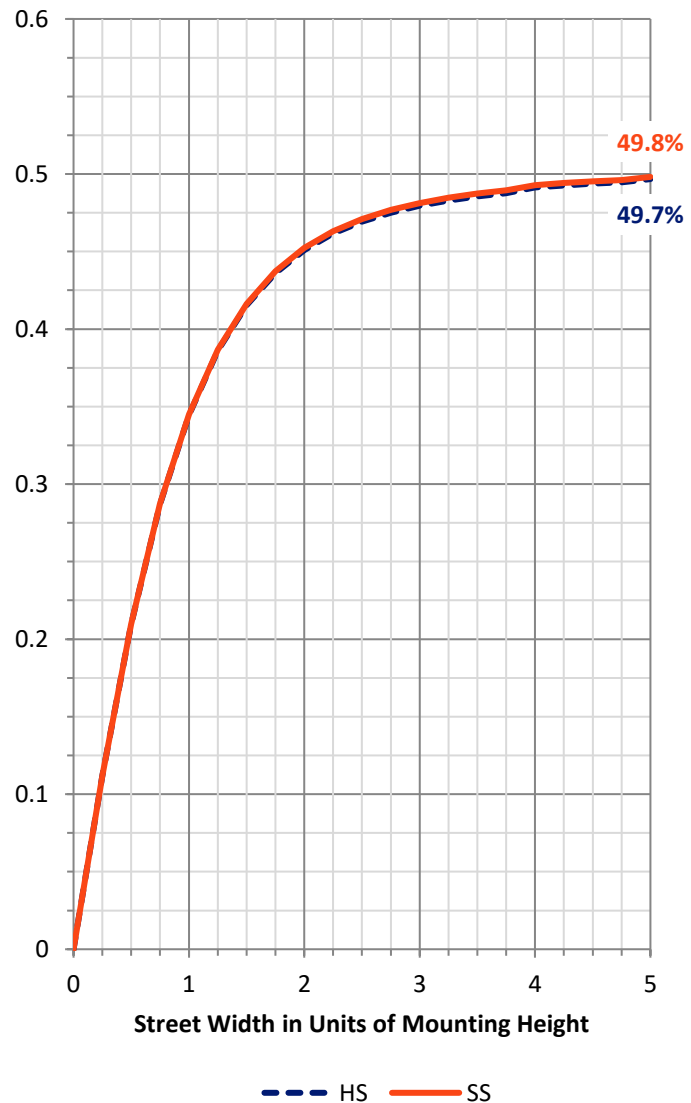
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3299.1	0.0	3299.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3299.1	0.0	3299.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	6598.1	0.0	6598.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	2.5
10°-20°	486.6	7.4
20°-30°	775.0	11.7
30°-40°	1016.0	15.4
40°-50°	1198.3	18.2
50°-60°	1241.1	18.8
60°-70°	1037.9	15.7
70°-80°	565.7	8.6
80°-90°	112.3	1.7
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°	6598.1	100.0
0°-180°	6598.1	100.0

Coefficient of Utilization



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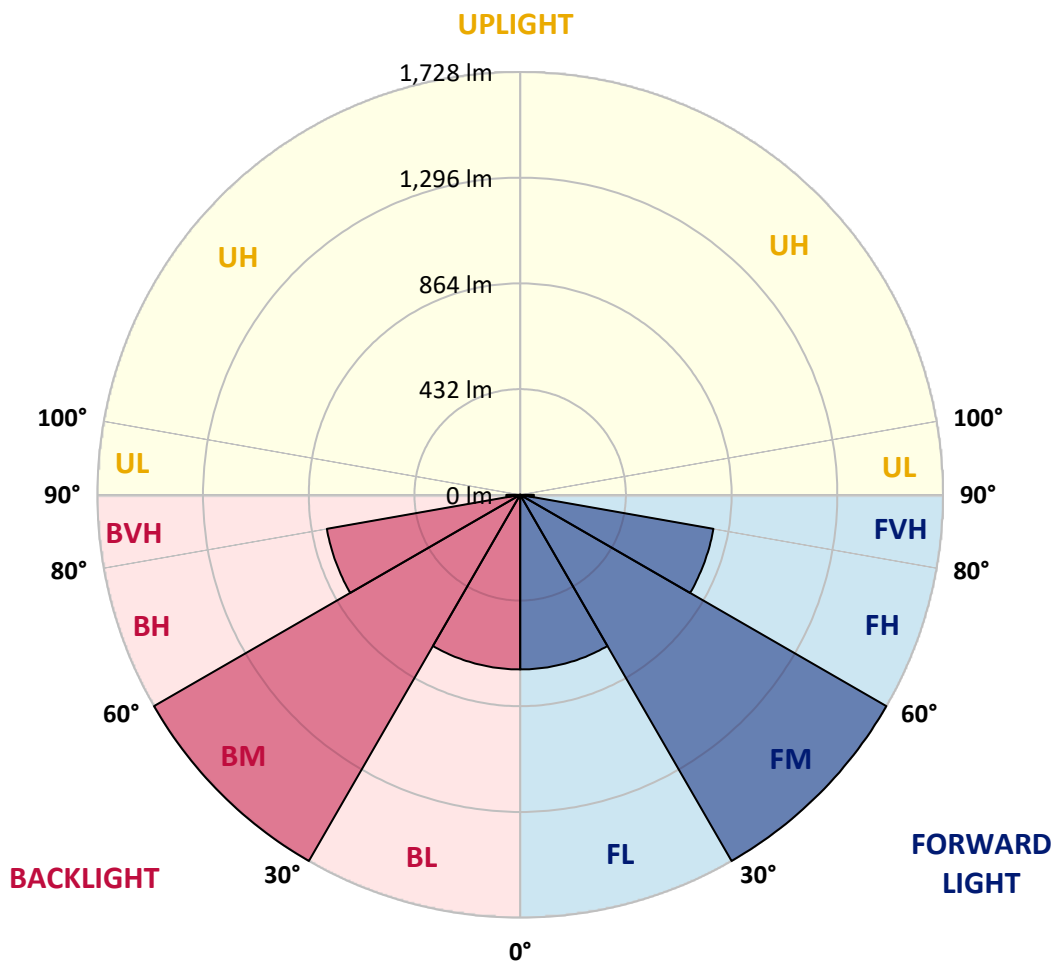
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	713.4	10.8			
FM	(30°-60°)	1727.7	26.2			
FH	(60°-80°)	801.8	12.2			G1/1800
FVH	(80°-90°)	56.1	0.9			G1/100
BL	(0°-30°)	713.4	10.8	B2/1000		
BM	(30°-60°)	1727.7	26.2	B2/2500		
BH	(60°-80°)	801.8	12.2	B2/1000		G1/1800
BVH	(80°-90°)	56.1	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0
2.5°	1732.6	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1732.6	1734.0	1734.0
5°	1732.6	1732.6	1732.6	1732.6	1734.0	1732.6	1732.6	1732.6	1732.6	1732.6	1732.6
7.5°	1731.2	1729.9	1729.9	1729.9	1729.9	1729.9	1731.2	1731.2	1731.2	1731.2	1731.2
10°	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1
12.5°	1722.9	1722.9	1722.9	1722.9	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1722.9
15°	1720.1	1720.1	1720.1	1720.1	1720.1	1720.1	1720.1	1720.1	1720.1	1720.1	1720.1
17.5°	1713.2	1713.2	1713.2	1713.2	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6
20°	1702.0	1702.0	1702.0	1702.0	1702.0	1703.5	1704.8	1704.8	1704.8	1704.8	1704.8
22.5°	1688.2	1688.2	1689.6	1689.6	1691.0	1691.0	1692.4	1692.4	1692.4	1692.4	1692.4
25°	1675.7	1675.7	1675.7	1677.1	1677.1	1677.1	1678.5	1679.9	1679.9	1679.9	1678.5
27.5°	1663.2	1663.2	1663.2	1664.6	1664.6	1664.6	1666.0	1666.0	1667.3	1666.0	1666.0
30°	1649.4	1647.9	1647.9	1649.4	1650.7	1650.7	1652.1	1652.1	1652.1	1652.1	1650.7
32.5°	1632.6	1632.6	1634.1	1635.4	1635.4	1636.8	1638.2	1638.2	1638.2	1639.6	1636.8
35°	1617.4	1618.8	1618.8	1620.2	1623.0	1624.3	1625.7	1627.1	1627.1	1627.1	1624.3
37.5°	1604.9	1606.2	1607.7	1610.4	1613.2	1616.0	1618.8	1621.5	1620.2	1620.2	1616.0
40°	1589.6	1591.0	1593.8	1596.6	1602.1	1604.9	1609.1	1611.9	1613.2	1611.9	1607.7
42.5°	1568.8	1570.2	1573.0	1577.2	1584.1	1589.6	1593.8	1597.9	1599.4	1597.9	1593.8
45°	1541.0	1542.5	1545.2	1550.8	1559.1	1564.7	1571.5	1575.7	1578.5	1578.5	1574.4
47.5°	1506.3	1507.7	1511.9	1517.4	1525.7	1532.7	1541.0	1546.6	1549.4	1552.1	1548.0
50°	1463.3	1464.6	1470.2	1477.2	1484.2	1493.8	1503.6	1511.9	1516.1	1517.4	1516.1
52.5°	1414.7	1416.1	1421.6	1428.6	1438.3	1449.4	1460.5	1470.2	1475.8	1478.6	1475.8
55°	1356.4	1359.2	1363.3	1373.1	1384.1	1393.9	1407.8	1418.8	1425.8	1427.2	1425.8
57.5°	1288.3	1292.5	1296.7	1307.8	1318.9	1332.8	1343.9	1355.0	1363.3	1364.7	1364.7
60°	1212.0	1214.8	1218.9	1230.0	1242.5	1252.3	1267.5	1278.7	1285.6	1285.6	1287.0
62.5°	1121.8	1124.6	1131.4	1139.9	1153.7	1163.4	1175.9	1187.0	1194.0	1196.7	1195.3
65°	1016.2	1019.0	1023.2	1034.3	1045.4	1056.5	1069.0	1078.8	1085.6	1087.1	1085.6
67.5°	899.6	902.4	905.2	919.1	930.2	934.3	949.6	957.9	962.1	963.5	963.5
70°	776.1	777.5	781.6	788.6	801.0	805.2	815.0	821.9	824.6	830.2	826.1
72.5°	647.0	649.8	659.4	660.9	670.6	676.2	678.9	678.9	685.8	685.8	687.2
75°	519.3	520.6	524.8	526.1	533.1	533.1	531.7	534.5	540.1	540.1	541.4
77.5°	392.9	392.9	399.8	394.3	397.1	391.5	394.3	391.5	395.6	394.3	395.6
80°	274.9	274.9	279.1	273.5	274.9	269.3	270.8	269.3	269.3	270.8	270.8
82.5°	169.4	170.8	173.5	169.4	169.4	165.2	166.6	168.0	168.0	166.6	165.2
85°	83.3	83.3	86.0	84.7	83.3	80.5	81.9	83.3	83.3	81.9	81.9
87.5°	22.2	22.2	23.6	23.6	22.2	20.8	22.2	23.6	23.6	23.6	22.2
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°	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0
2.5°	1732.6	1732.6	1734.0	1732.6	1734.0	1732.6	1734.0	1734.0
5°	1732.6	1732.6	1732.6	1732.6	1732.6	1732.6	1732.6	1732.6
7.5°	1729.9	1731.2	1729.9	1729.9	1729.9	1731.2	1729.9	1731.2
10°	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1
12.5°	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9	1721.5
15°	1720.1	1718.8	1718.8	1718.8	1717.3	1717.3	1717.3	1717.3
17.5°	1714.6	1713.2	1711.8	1711.8	1711.8	1711.8	1710.5	1710.5
20°	1704.8	1703.5	1702.0	1702.0	1700.7	1700.7	1699.3	1699.3
22.5°	1691.0	1691.0	1689.6	1688.2	1688.2	1686.8	1686.8	1685.4
25°	1678.5	1677.1	1675.7	1674.3	1672.9	1672.9	1671.5	1670.1
27.5°	1664.6	1661.8	1660.5	1659.0	1657.7	1656.2	1654.9	1653.5
30°	1649.4	1646.6	1643.8	1642.4	1639.6	1636.8	1635.4	1634.1
32.5°	1634.1	1631.3	1627.1	1623.0	1620.2	1617.4	1614.7	1613.2
35°	1621.5	1616.0	1611.9	1606.2	1602.1	1597.9	1596.6	1595.2
37.5°	1611.9	1606.2	1599.4	1593.8	1589.6	1584.1	1581.3	1578.5
40°	1602.1	1595.2	1586.8	1580.0	1574.4	1567.4	1564.7	1561.9
42.5°	1588.3	1580.0	1571.5	1563.2	1554.9	1548.0	1543.8	1541.0
45°	1568.8	1560.4	1550.8	1539.6	1531.3	1523.0	1518.9	1516.1
47.5°	1542.5	1534.1	1523.0	1513.3	1503.6	1495.2	1489.7	1486.9
50°	1510.5	1502.1	1491.0	1479.9	1470.2	1460.5	1456.3	1452.2
52.5°	1470.2	1463.3	1450.8	1442.5	1431.4	1421.6	1417.5	1414.7
55°	1420.3	1413.3	1400.8	1392.5	1381.4	1373.1	1367.5	1363.3
57.5°	1359.2	1353.6	1339.7	1331.4	1320.3	1312.0	1307.8	1305.0
60°	1284.2	1278.7	1264.7	1256.4	1246.8	1237.0	1234.2	1231.5
62.5°	1191.2	1188.4	1177.3	1167.6	1157.8	1148.2	1145.4	1144.0
65°	1082.9	1080.1	1070.3	1062.0	1053.7	1045.4	1042.6	1039.9
67.5°	959.3	957.9	949.6	942.7	937.1	928.8	927.4	924.6
70°	827.4	824.6	817.8	812.2	808.0	801.0	799.7	796.9
72.5°	690.0	688.6	684.5	677.5	677.5	667.7	666.4	665.0
75°	538.7	545.6	540.1	537.3	537.3	531.7	531.7	530.3
77.5°	394.3	401.2	405.4	399.8	405.4	399.8	399.8	398.4
80°	269.3	274.9	279.1	274.9	281.9	277.6	277.6	283.2
82.5°	163.8	169.4	172.2	170.8	175.0	173.5	172.2	176.3
85°	80.5	83.3	84.7	84.7	86.0	83.3	86.0	87.5
87.5°	20.8	22.2	23.6	22.2	23.6	23.6	23.6	25.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)