

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: P197522

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197522
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
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6661.2 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

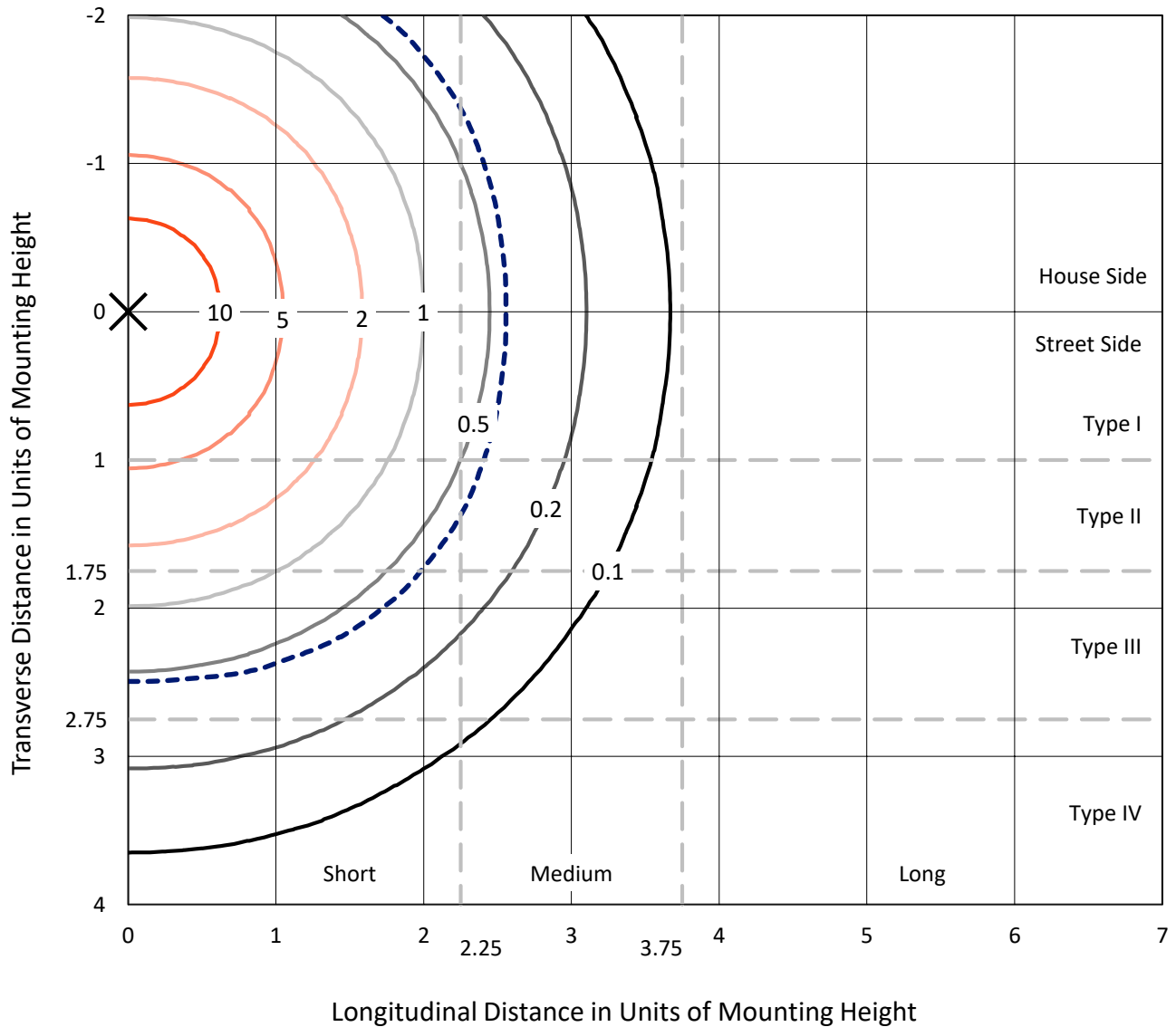
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P197522
 CATALOG NUMBER: TT-C4-LED-E1-5CQ-PM-LWR-LW

Iso-Footcandle Lines of Horizontal Illumination

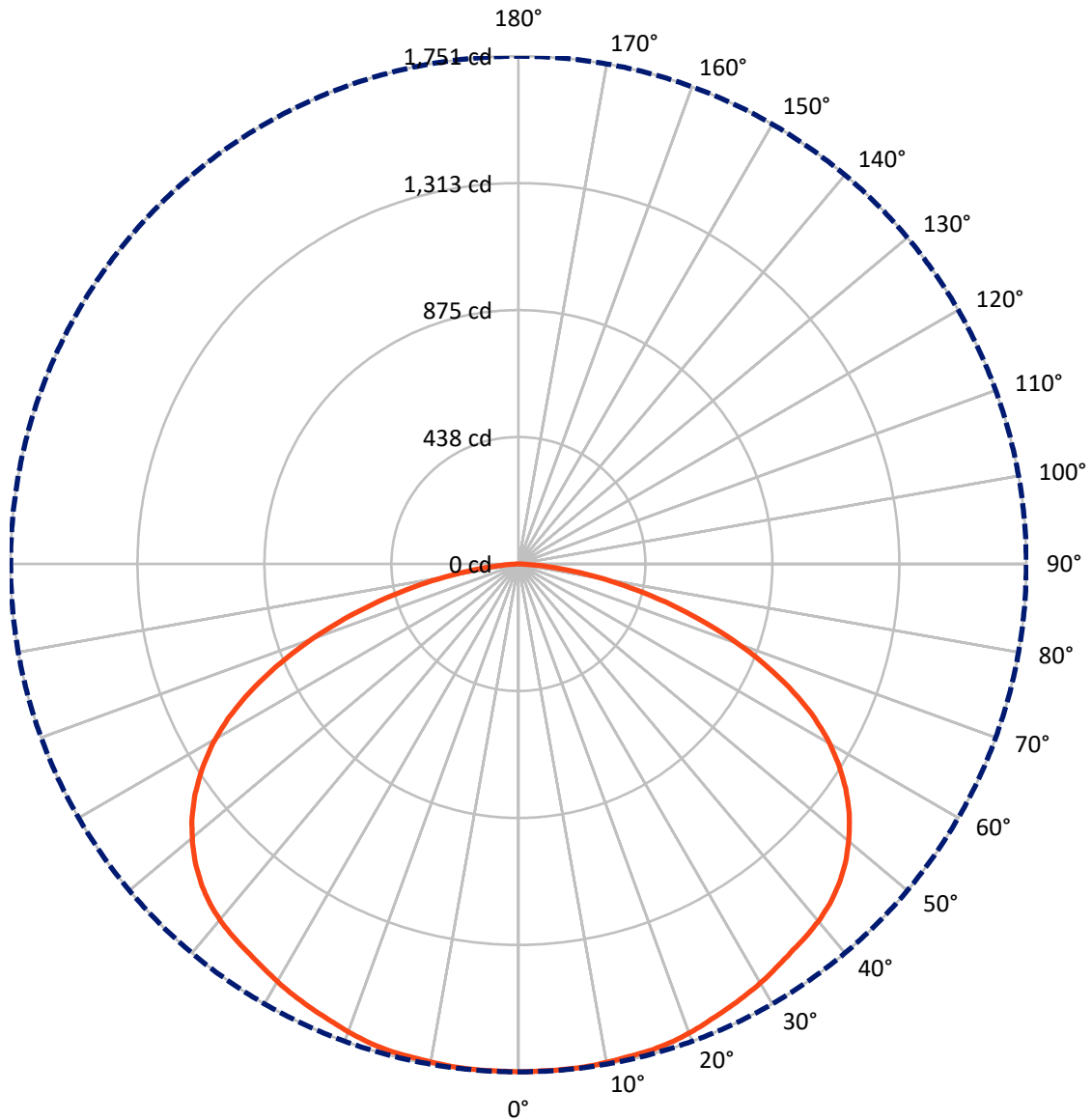
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.5 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P197522
CATALOG NUMBER: TT-C4-LED-E1-5CQ-PM-LWR-LW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P197522

CATALOG NUMBER: TT-C4-LED-E1-5CQ-PM-LWR-LW

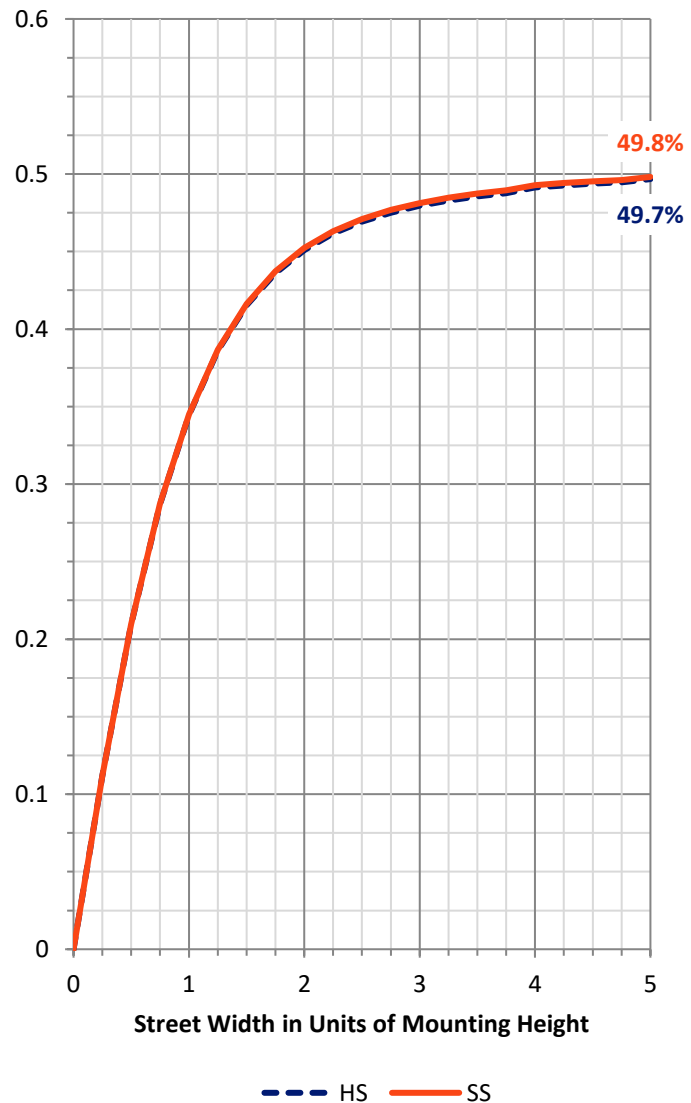
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3330.6	0.0	3330.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3330.6	0.0	3330.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	6661.2	0.0	6661.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	2.5
10°-20°	491.2	7.4
20°-30°	782.4	11.7
30°-40°	1025.8	15.4
40°-50°	1209.8	18.2
50°-60°	1252.9	18.8
60°-70°	1047.8	15.7
70°-80°	571.1	8.6
80°-90°	113.4	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°	6661.2	100.0
0°-180°	6661.2	100.0



REPORT NUMBER: P197522

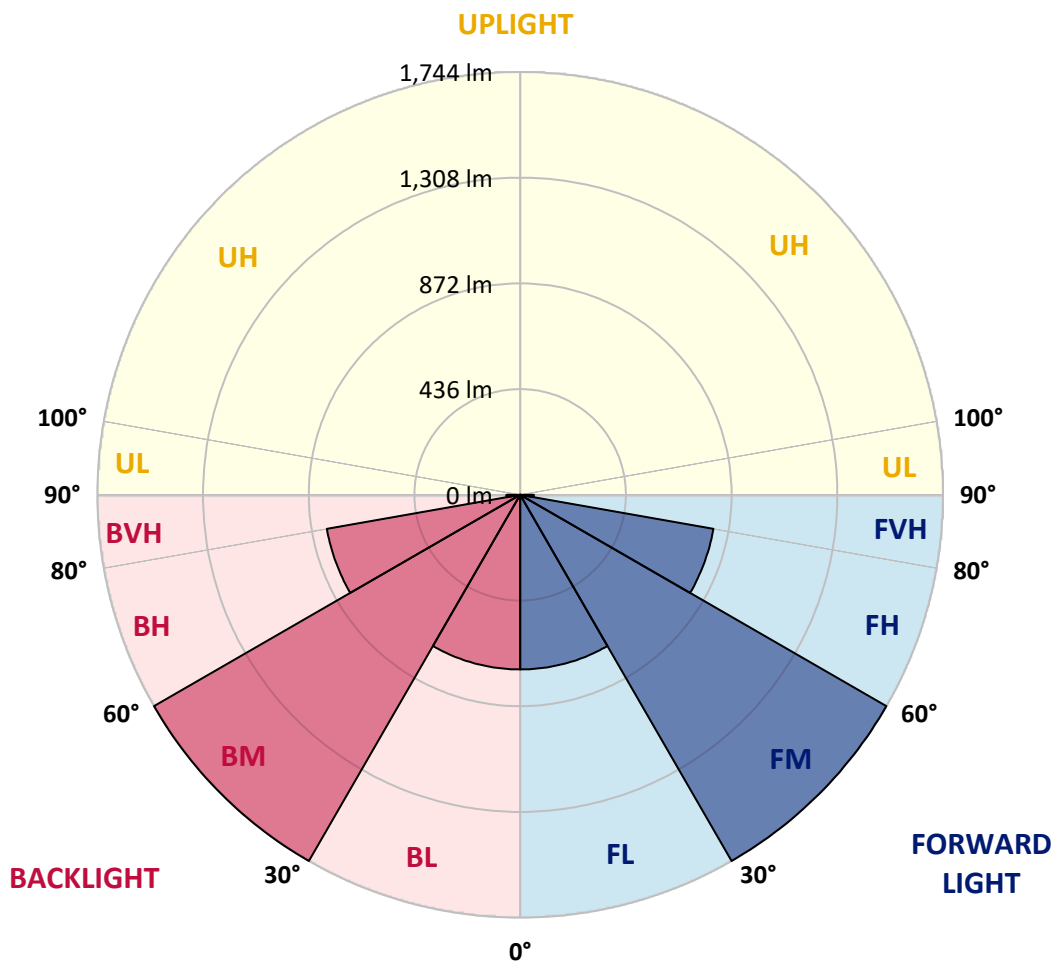
CATALOG NUMBER: TT-C4-LED-E1-5CQ-PM-LWR-LW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	720.2	10.8			
FM	(30°-60°)	1744.2	26.2			
FH	(60°-80°)	809.5	12.2			G1/1800
FVH	(80°-90°)	56.7	0.9			G1/100
BL	(0°-30°)	720.2	10.8	B2/1000		
BM	(30°-60°)	1744.2	26.2	B2/2500		
BH	(60°-80°)	809.5	12.2	B2/1000		G1/1800
BVH	(80°-90°)	56.7	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





REPORT NUMBER: P197522

CATALOG NUMBER: TT-C4-LED-E1-5CQ-PM-LWR-LW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6
2.5°	1749.2	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6	1749.2	1750.6	1750.6
5°	1749.2	1749.2	1749.2	1749.2	1750.6	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2
7.5°	1747.8	1746.4	1746.4	1746.4	1746.4	1746.4	1747.8	1747.8	1747.8	1747.8	1747.8
10°	1743.6	1743.6	1743.6	1743.6	1743.6	1743.6	1743.6	1743.6	1743.6	1743.6	1743.6
12.5°	1739.4	1739.4	1739.4	1739.4	1740.8	1740.8	1740.8	1740.8	1740.8	1740.8	1739.4
15°	1736.6	1736.6	1736.6	1736.6	1736.6	1736.6	1736.6	1736.6	1736.6	1736.6	1736.6
17.5°	1729.6	1729.6	1729.6	1729.6	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9
20°	1718.4	1718.4	1718.4	1718.4	1718.4	1719.7	1721.2	1721.2	1721.2	1721.2	1721.2
22.5°	1704.4	1704.4	1705.7	1705.7	1707.2	1707.2	1708.5	1708.5	1708.5	1708.5	1708.5
25°	1691.7	1691.7	1691.7	1693.1	1693.1	1693.1	1694.5	1696.0	1696.0	1696.0	1694.5
27.5°	1679.1	1679.1	1679.1	1680.5	1680.5	1680.5	1681.9	1681.9	1683.3	1681.9	1681.9
30°	1665.1	1663.7	1663.7	1665.1	1666.5	1666.5	1667.9	1667.9	1667.9	1667.9	1666.5
32.5°	1648.3	1648.3	1649.7	1651.1	1651.1	1652.5	1653.9	1653.9	1653.9	1655.3	1652.5
35°	1632.8	1634.3	1634.3	1635.6	1638.4	1639.9	1641.2	1642.7	1642.7	1642.7	1639.9
37.5°	1620.3	1621.6	1623.1	1625.9	1628.7	1631.5	1634.3	1637.1	1635.6	1635.6	1631.5
40°	1604.8	1606.2	1609.1	1611.9	1617.5	1620.3	1624.4	1627.2	1628.7	1627.2	1623.1
42.5°	1583.8	1585.2	1588.0	1592.2	1599.2	1604.8	1609.1	1613.2	1614.7	1613.2	1609.1
45°	1555.8	1557.1	1559.9	1565.6	1574.0	1579.6	1586.6	1590.8	1593.6	1593.6	1589.4
47.5°	1520.7	1522.2	1526.3	1531.9	1540.3	1547.4	1555.8	1561.4	1564.2	1567.0	1562.8
50°	1477.3	1478.7	1484.3	1491.3	1498.3	1508.1	1517.9	1526.3	1530.6	1531.9	1530.6
52.5°	1428.2	1429.6	1435.3	1442.2	1452.1	1463.3	1474.5	1484.3	1489.9	1492.7	1489.9
55°	1369.3	1372.1	1376.4	1386.1	1397.4	1407.2	1421.2	1432.4	1439.4	1440.9	1439.4
57.5°	1300.7	1304.9	1309.1	1320.3	1331.5	1345.5	1356.8	1368.0	1376.4	1377.7	1377.7
60°	1223.6	1226.4	1230.6	1241.8	1254.4	1264.3	1279.6	1290.8	1297.9	1297.9	1299.2
62.5°	1132.5	1135.3	1142.3	1150.7	1164.7	1174.6	1187.1	1198.3	1205.4	1208.2	1206.7
65°	1026.0	1028.8	1032.9	1044.2	1055.4	1066.6	1079.2	1089.0	1096.1	1097.4	1096.1
67.5°	908.2	911.0	913.9	927.9	939.1	943.2	958.7	967.1	971.3	972.7	972.7
70°	783.5	784.9	789.1	796.1	808.7	812.9	822.7	829.8	832.6	838.2	833.9
72.5°	653.2	656.0	665.7	667.2	676.9	682.5	685.3	685.3	692.4	692.4	693.8
75°	524.2	525.6	529.8	531.2	538.2	538.2	536.8	539.6	545.2	545.2	546.6
77.5°	396.6	396.6	403.7	398.1	400.9	395.3	398.1	395.3	399.4	398.1	399.4
80°	277.5	277.5	281.7	276.1	277.5	271.9	273.3	271.9	271.9	273.3	273.3
82.5°	171.0	172.4	175.2	171.0	171.0	166.7	168.2	169.5	169.5	168.2	166.7
85°	84.1	84.1	86.9	85.5	84.1	81.3	82.6	84.1	84.1	82.6	82.6
87.5°	22.4	22.4	23.8	23.8	22.4	21.0	22.4	23.8	23.8	23.8	22.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P197522

CATALOG NUMBER: TT-C4-LED-E1-5CQ-PM-LWR-LW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6	1750.6
2.5°	1749.2	1749.2	1750.6	1749.2	1750.6	1749.2	1750.6	1750.6
5°	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2
7.5°	1746.4	1747.8	1746.4	1746.4	1746.4	1747.8	1746.4	1747.8
10°	1743.6	1743.6	1743.6	1743.6	1743.6	1743.6	1743.6	1743.6
12.5°	1739.4	1739.4	1739.4	1739.4	1739.4	1739.4	1739.4	1738.0
15°	1736.6	1735.2	1735.2	1735.2	1733.7	1733.7	1733.7	1733.7
17.5°	1730.9	1729.6	1728.1	1728.1	1728.1	1728.1	1726.8	1726.8
20°	1721.2	1719.7	1718.4	1718.4	1716.9	1716.9	1715.6	1715.6
22.5°	1707.2	1707.2	1705.7	1704.4	1704.4	1702.9	1702.9	1701.6
25°	1694.5	1693.1	1691.7	1690.3	1688.9	1688.9	1687.5	1686.1
27.5°	1680.5	1677.7	1676.3	1674.9	1673.5	1672.1	1670.7	1669.3
30°	1665.1	1662.3	1659.5	1658.1	1655.3	1652.5	1651.1	1649.7
32.5°	1649.7	1646.8	1642.7	1638.4	1635.6	1632.8	1630.0	1628.7
35°	1637.1	1631.5	1627.2	1621.6	1617.5	1613.2	1611.9	1610.4
37.5°	1627.2	1621.6	1614.7	1609.1	1604.8	1599.2	1596.4	1593.6
40°	1617.5	1610.4	1602.0	1595.0	1589.4	1582.4	1579.6	1576.8
42.5°	1603.4	1595.0	1586.6	1578.2	1569.8	1562.8	1558.6	1555.8
45°	1583.8	1575.4	1565.6	1554.3	1545.9	1537.5	1533.4	1530.6
47.5°	1557.1	1548.7	1537.5	1527.8	1517.9	1509.5	1503.9	1501.1
50°	1525.0	1516.5	1505.3	1494.1	1484.3	1474.5	1470.2	1466.1
52.5°	1484.3	1477.3	1464.6	1456.2	1445.0	1435.3	1431.0	1428.2
55°	1433.8	1426.8	1414.2	1405.8	1394.6	1386.1	1380.5	1376.4
57.5°	1372.1	1366.5	1352.5	1344.1	1332.9	1324.5	1320.3	1317.5
60°	1296.4	1290.8	1276.8	1268.4	1258.6	1248.8	1246.0	1243.2
62.5°	1202.6	1199.8	1188.6	1178.7	1168.9	1159.1	1156.3	1154.9
65°	1093.3	1090.5	1080.6	1072.2	1063.8	1055.4	1052.6	1049.8
67.5°	968.5	967.1	958.7	951.6	946.0	937.6	936.3	933.5
70°	835.4	832.6	825.5	819.9	815.7	808.7	807.3	804.5
72.5°	696.6	695.2	690.9	684.0	684.0	674.1	672.8	671.3
75°	543.8	550.8	545.2	542.4	542.4	536.8	536.8	535.4
77.5°	398.1	405.0	409.3	403.7	409.3	403.7	403.7	402.2
80°	271.9	277.5	281.7	277.5	284.5	280.3	280.3	285.9
82.5°	165.4	171.0	173.8	172.4	176.6	175.2	173.8	178.0
85°	81.3	84.1	85.5	85.5	86.9	84.1	86.9	88.3
87.5°	21.0	22.4	23.8	22.4	23.8	23.8	23.8	25.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)