

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: P197547

Luminaire Tested: **TT-C4-LED-E1-5CQ-PM-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115423)
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-MS/DIM-7050
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7042.3 lumens
Efficiency: N/A
Efficacy: 121.4 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 (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

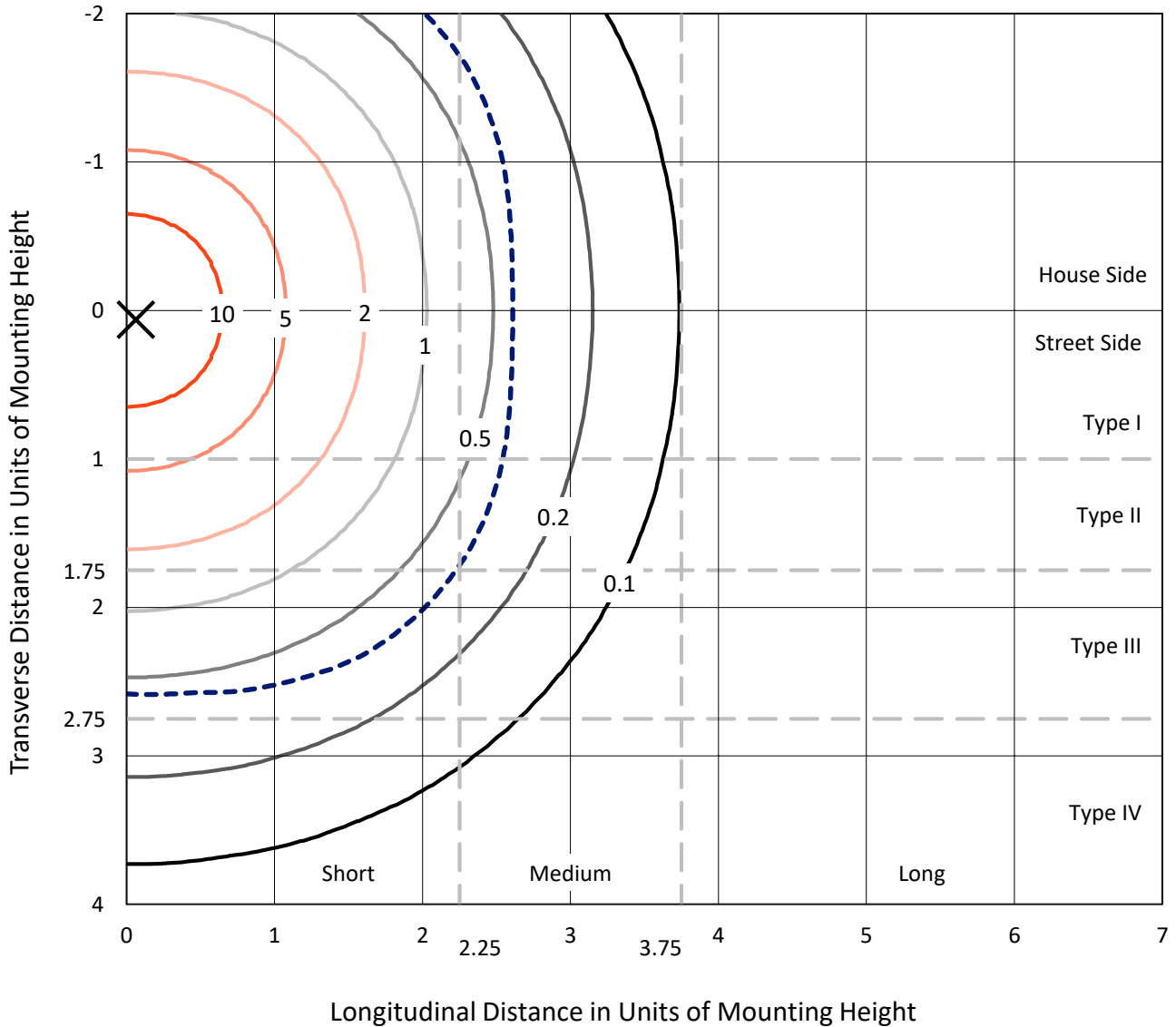


REPORT NUMBER: P197547

CATALOG NUMBER: TT-C4-LED-E1-5CQ-PM-MS/DIM-7050

Iso-Footcandle Lines of Horizontal Illumination

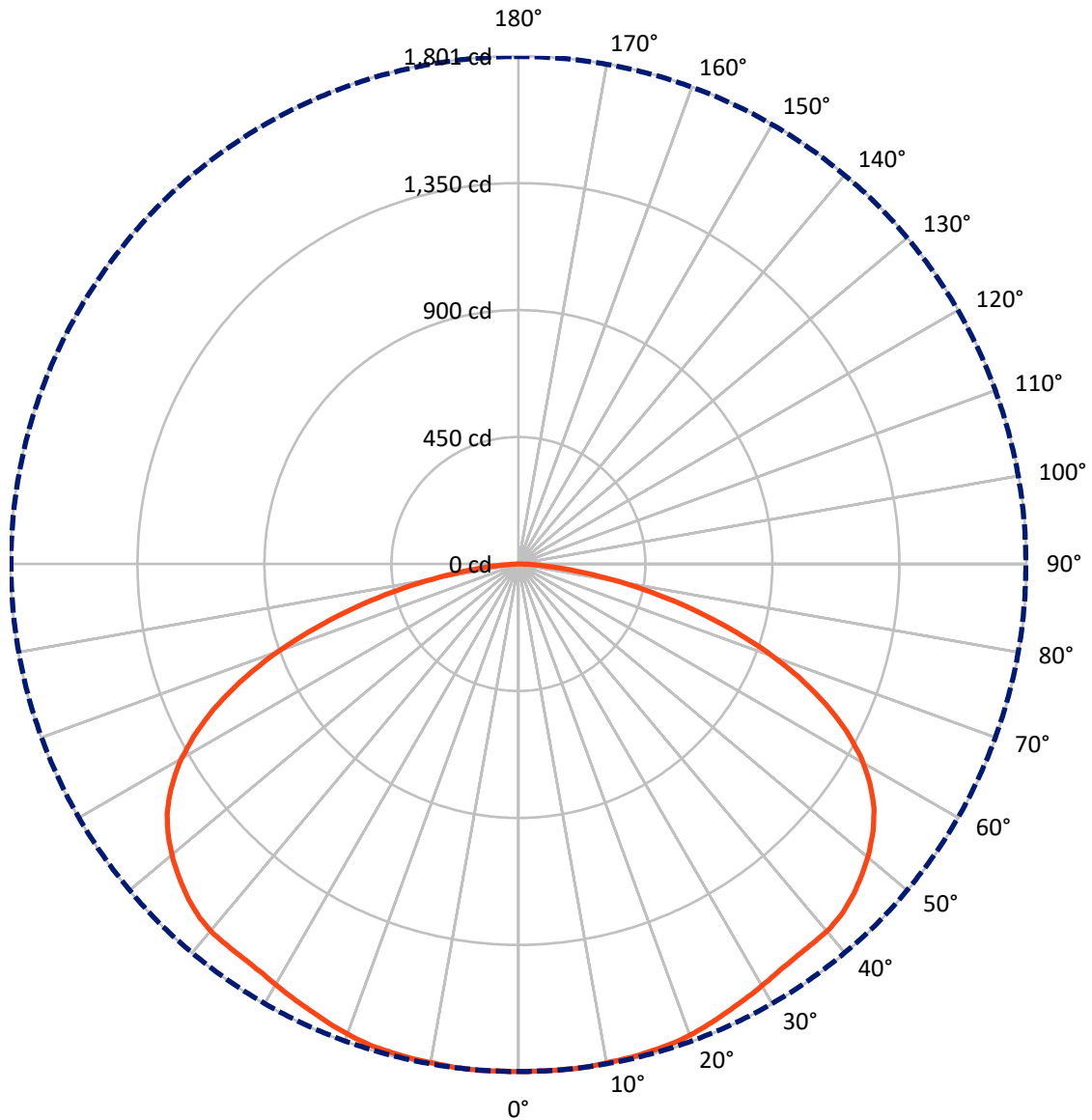
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P197547
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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

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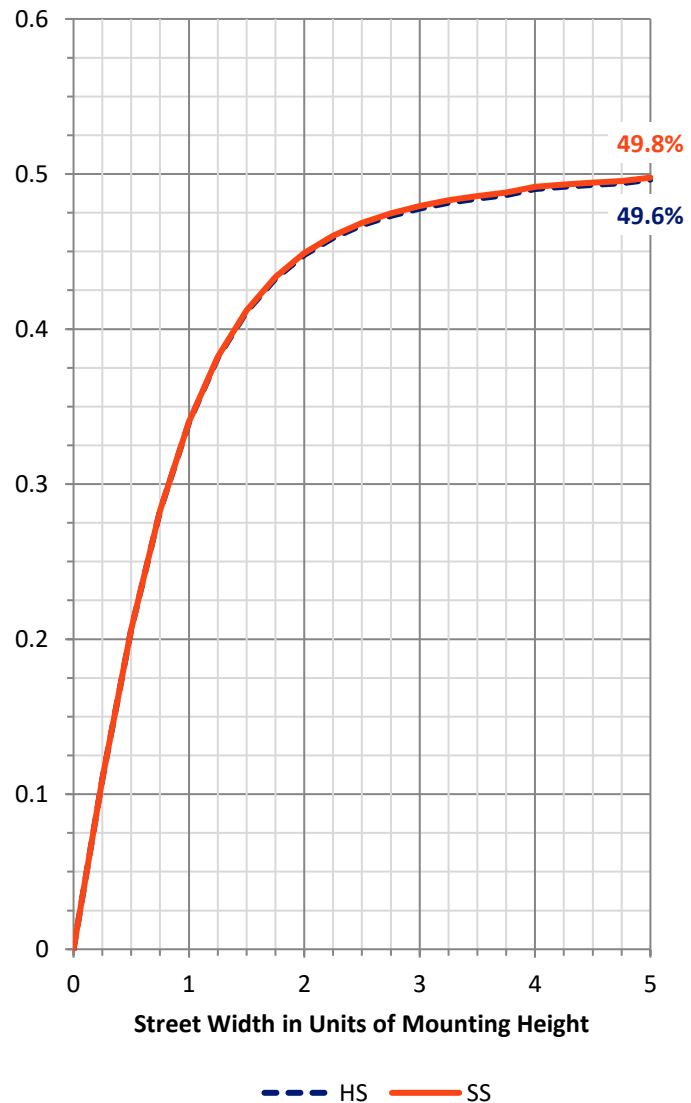
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3521.2	0.0	3521.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3521.2	0.0	3521.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	7042.3	0.0	7042.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	2.4
10°-20°	506.2	7.2
20°-30°	807.8	11.5
30°-40°	1064.0	15.1
40°-50°	1265.6	18.0
50°-60°	1324.6	18.8
60°-70°	1126.4	16.0
70°-80°	640.1	9.1
80°-90°	136.1	1.9
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°	7042.3	100.0
0°-180°	7042.3	100.0



REPORT NUMBER: P197547

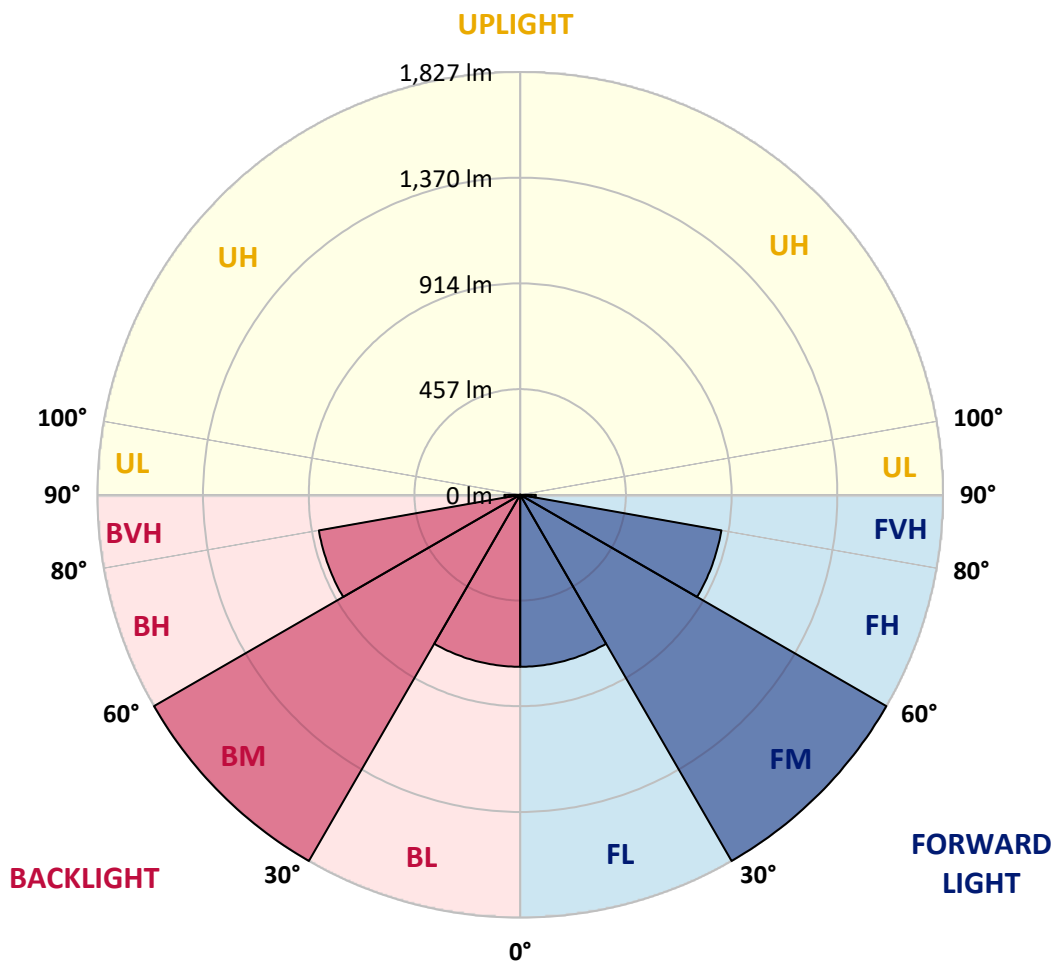
CATALOG NUMBER: TT-C4-LED-E1-5CQ-PM-MS/DIM-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	742.8	10.5			
FM	(30°-60°)	1827.1	25.9			
FH	(60°-80°)	883.3	12.5			G1/1800
FVH	(80°-90°)	68.1	1.0			G1/100
BL	(0°-30°)	742.8	10.5	B2/1000		
BM	(30°-60°)	1827.1	25.9	B2/2500		
BH	(60°-80°)	883.3	12.5	B2/1000		G1/1800
BVH	(80°-90°)	68.1	1.0			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°	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3
2.5°	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3
5°	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1800.6	1799.3
7.5°	1797.8	1797.8	1797.8	1797.8	1799.3	1797.8	1797.8	1799.3	1799.3	1799.3	1799.3
10°	1795.1	1793.7	1793.7	1795.1	1795.1	1795.1	1795.1	1795.1	1796.5	1795.1	1795.1
12.5°	1791.0	1789.5	1791.0	1791.0	1791.0	1792.3	1792.3	1792.3	1793.7	1793.7	1792.3
15°	1786.8	1786.8	1786.8	1786.8	1786.8	1788.2	1788.2	1789.5	1789.5	1789.5	1789.5
17.5°	1781.2	1781.2	1781.2	1782.6	1782.6	1784.0	1784.0	1784.0	1785.4	1785.4	1785.4
20°	1771.5	1770.1	1771.5	1771.5	1772.9	1774.2	1774.2	1775.7	1775.7	1775.7	1775.7
22.5°	1757.6	1757.6	1759.0	1759.0	1760.4	1761.8	1761.8	1763.1	1763.1	1763.1	1763.1
25°	1743.7	1745.2	1745.2	1746.5	1746.5	1747.9	1749.3	1749.3	1749.3	1749.3	1749.3
27.5°	1729.9	1731.2	1731.2	1731.2	1732.6	1734.0	1735.4	1736.7	1738.2	1736.7	1736.7
30°	1714.6	1714.6	1716.0	1717.3	1718.8	1720.1	1722.9	1724.3	1725.7	1724.3	1724.3
32.5°	1697.9	1699.3	1700.7	1702.0	1704.8	1707.6	1710.5	1711.8	1713.2	1711.8	1711.8
35°	1685.4	1685.4	1688.2	1691.0	1693.7	1697.9	1700.7	1703.5	1706.3	1704.8	1703.5
37.5°	1672.9	1672.9	1675.7	1679.9	1685.4	1691.0	1696.5	1700.7	1702.0	1702.0	1700.7
40°	1657.7	1659.0	1661.8	1668.8	1677.1	1684.1	1691.0	1696.5	1699.3	1699.3	1696.5
42.5°	1641.0	1642.4	1646.6	1653.5	1663.2	1671.5	1679.9	1684.1	1688.2	1688.2	1685.4
45°	1617.4	1618.8	1624.3	1631.3	1641.0	1649.4	1659.0	1663.2	1668.8	1667.3	1666.0
47.5°	1586.8	1588.3	1593.8	1600.7	1610.4	1620.2	1629.9	1636.8	1641.0	1641.0	1639.6
50°	1549.4	1550.8	1556.3	1563.2	1575.7	1586.8	1596.6	1603.5	1610.4	1610.4	1609.1
52.5°	1502.1	1504.9	1509.1	1518.9	1532.7	1545.2	1557.7	1568.8	1573.0	1574.4	1573.0
55°	1443.9	1446.7	1452.2	1463.3	1478.6	1493.8	1507.7	1520.2	1525.7	1529.9	1527.2
57.5°	1375.8	1378.6	1385.6	1398.0	1414.7	1429.9	1448.0	1461.9	1466.1	1470.2	1468.9
60°	1295.3	1299.4	1306.4	1320.3	1336.9	1353.6	1370.3	1386.9	1391.1	1396.7	1393.9
62.5°	1200.9	1205.1	1212.0	1227.2	1245.3	1260.6	1280.0	1295.3	1299.4	1305.0	1303.6
65°	1092.6	1096.7	1103.7	1120.4	1137.0	1153.7	1171.7	1188.4	1192.5	1198.1	1196.7
67.5°	969.0	973.2	980.2	999.6	1016.2	1032.9	1048.2	1064.8	1067.6	1073.2	1071.8
70°	838.6	844.1	849.7	867.7	883.0	896.8	913.6	927.4	933.0	935.7	933.0
72.5°	708.1	712.2	717.7	730.3	741.4	753.9	770.5	780.3	784.4	785.8	785.8
75°	573.4	577.6	577.6	591.4	599.8	606.7	620.6	627.5	630.3	633.0	633.0
77.5°	445.6	442.9	445.6	451.2	456.7	462.3	470.7	474.8	477.6	483.1	480.3
80°	312.4	313.8	315.1	319.3	322.1	323.4	329.0	330.4	331.8	337.4	334.6
82.5°	201.3	198.5	201.3	199.9	202.7	198.5	201.3	205.5	202.7	205.5	206.9
85°	105.6	101.3	101.3	102.8	104.1	101.3	102.8	101.3	101.3	104.1	102.8
87.5°	33.3	31.9	33.3	31.9	33.3	31.9	33.3	34.7	33.3	33.3	34.7
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: P197547

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3
2.5°	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3
5°	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3	1799.3
7.5°	1797.8	1797.8	1797.8	1797.8	1797.8	1797.8	1796.5	1797.8
10°	1795.1	1795.1	1795.1	1795.1	1793.7	1793.7	1793.7	1793.7
12.5°	1792.3	1792.3	1791.0	1791.0	1791.0	1791.0	1789.5	1789.5
15°	1789.5	1788.2	1788.2	1786.8	1786.8	1786.8	1785.4	1786.8
17.5°	1785.4	1784.0	1784.0	1782.6	1782.6	1781.2	1781.2	1781.2
20°	1775.7	1774.2	1774.2	1772.9	1772.9	1771.5	1770.1	1770.1
22.5°	1761.8	1761.8	1761.8	1760.4	1759.0	1759.0	1757.6	1757.6
25°	1749.3	1747.9	1747.9	1746.5	1745.2	1745.2	1743.7	1743.7
27.5°	1736.7	1735.4	1734.0	1731.2	1731.2	1729.9	1728.4	1727.1
30°	1722.9	1720.1	1717.3	1716.0	1714.6	1711.8	1710.5	1709.0
32.5°	1709.0	1706.3	1703.5	1700.7	1696.5	1695.2	1692.4	1692.4
35°	1700.7	1696.5	1692.4	1686.8	1682.6	1678.5	1675.7	1674.3
37.5°	1696.5	1691.0	1684.1	1677.1	1670.1	1664.6	1660.5	1660.5
40°	1691.0	1684.1	1675.7	1666.0	1657.7	1650.7	1646.6	1645.2
42.5°	1679.9	1672.9	1661.8	1653.5	1642.4	1635.4	1629.9	1628.5
45°	1660.5	1653.5	1643.8	1632.6	1621.5	1613.2	1607.7	1606.2
47.5°	1635.4	1627.1	1616.0	1604.9	1593.8	1584.1	1578.5	1577.2
50°	1603.5	1595.2	1584.1	1573.0	1560.4	1550.8	1543.8	1543.8
52.5°	1567.4	1557.7	1545.2	1532.7	1518.9	1509.1	1502.1	1500.8
55°	1520.2	1509.1	1496.6	1482.7	1467.4	1456.3	1448.0	1446.7
57.5°	1461.9	1449.4	1435.5	1420.3	1405.0	1392.5	1382.8	1381.4
60°	1388.3	1374.5	1360.5	1345.3	1328.6	1314.7	1305.0	1302.2
62.5°	1298.1	1282.8	1267.5	1253.6	1235.6	1221.7	1212.0	1209.3
65°	1191.2	1178.7	1163.4	1146.7	1127.3	1113.5	1103.7	1102.3
67.5°	1066.2	1053.7	1038.5	1023.2	1003.7	991.3	981.5	978.8
70°	928.8	917.7	905.2	889.9	873.3	860.8	851.0	849.7
72.5°	783.0	773.3	762.2	751.1	734.4	724.7	716.4	715.0
75°	633.0	623.4	615.1	606.7	594.2	587.2	578.9	578.9
77.5°	480.3	477.6	472.0	462.3	455.4	449.8	445.6	442.9
80°	336.0	333.2	330.4	324.9	320.7	319.3	316.6	313.8
82.5°	205.5	204.1	205.5	202.7	201.3	201.3	199.9	197.1
85°	104.1	105.6	104.1	102.8	102.8	102.8	102.8	101.3
87.5°	33.3	34.7	33.3	31.9	31.9	31.9	31.9	30.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)