

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: P197546

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197546
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
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7109.6 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

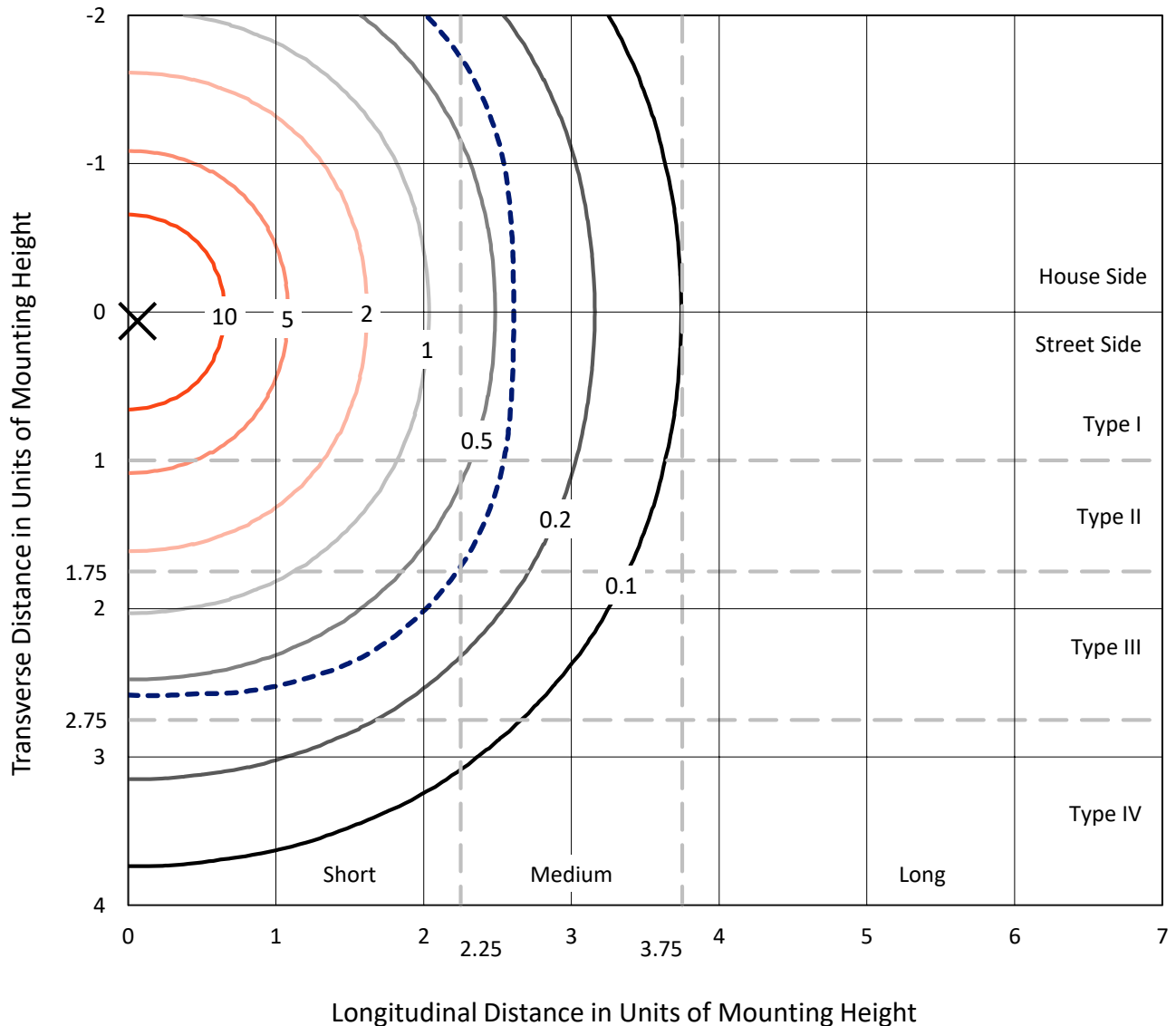
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P197546
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Iso-Footcandle Lines of Horizontal Illumination

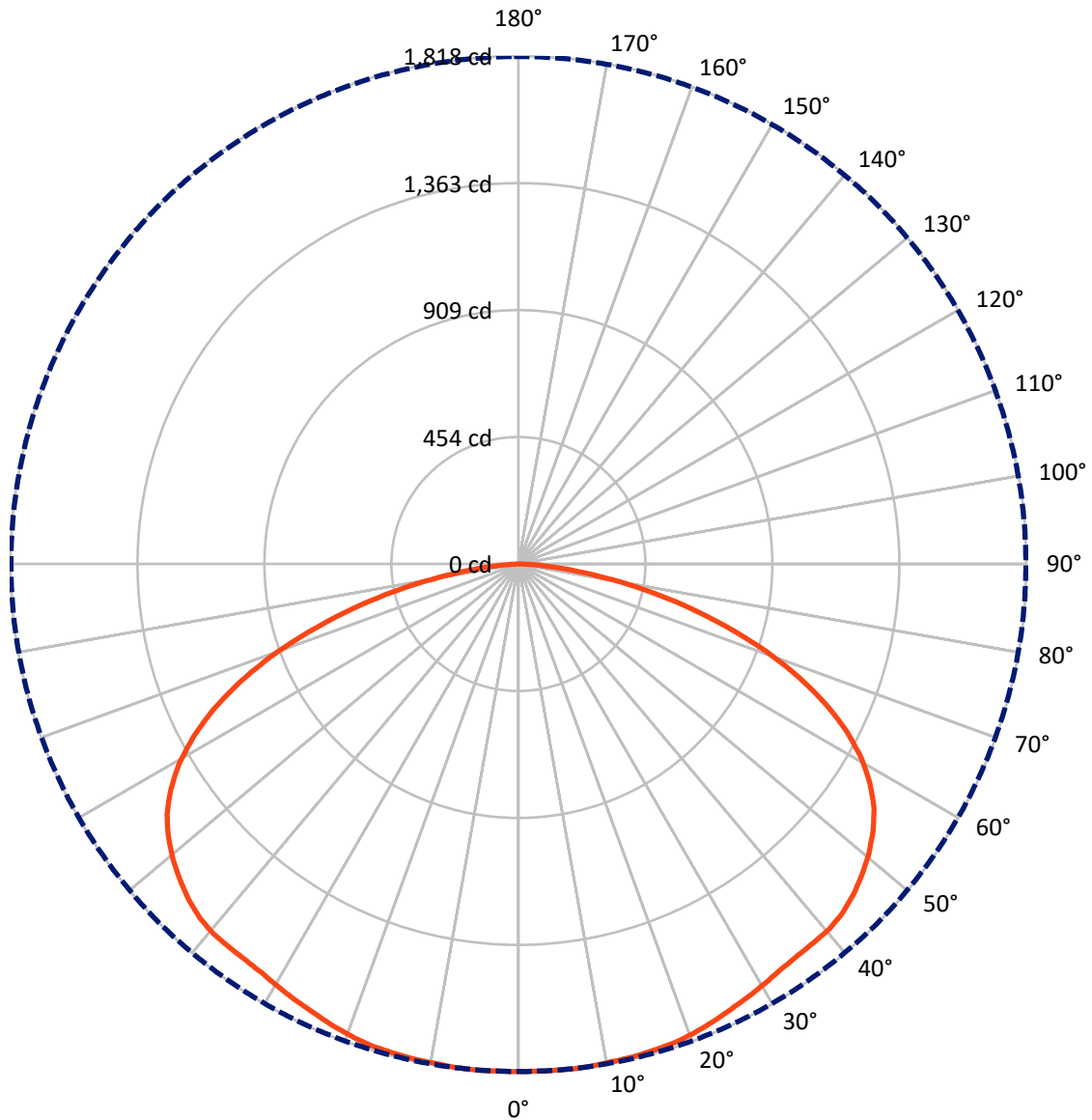
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P197546
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Luminous Intensity Polar Plot



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

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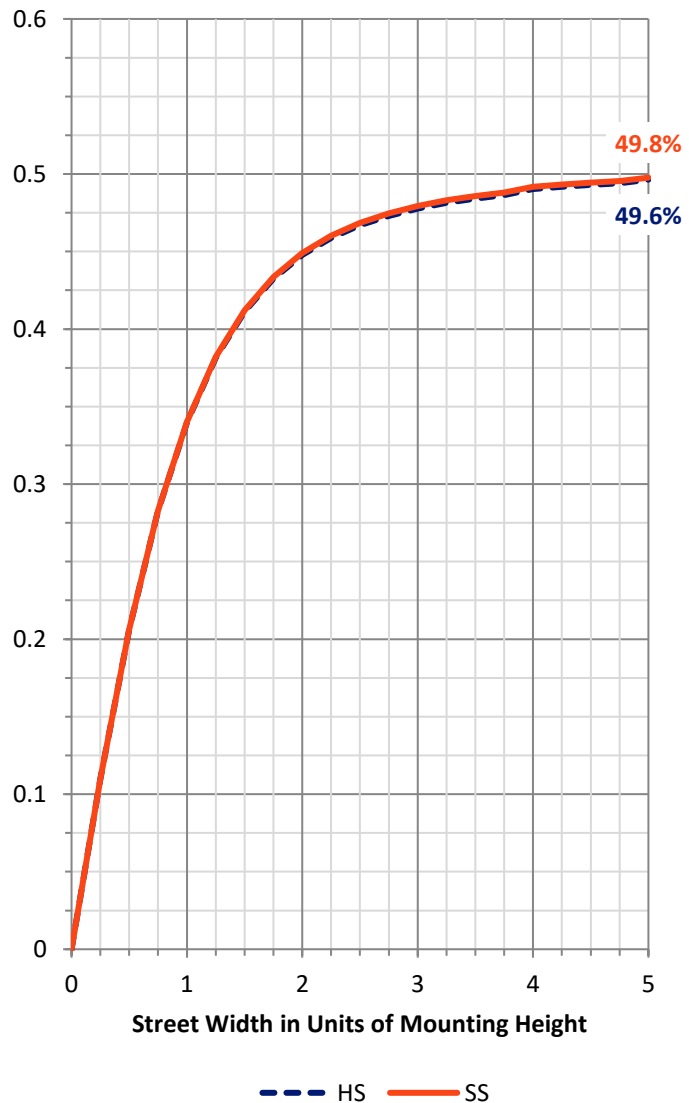
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3554.8	0.0	3554.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3554.8	0.0	3554.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	7109.6	0.0	7109.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	2.4
10°-20°	511.0	7.2
20°-30°	815.5	11.5
30°-40°	1074.1	15.1
40°-50°	1277.7	18.0
50°-60°	1337.2	18.8
60°-70°	1137.2	16.0
70°-80°	646.2	9.1
80°-90°	137.4	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°	7109.6	100.0
0°-180°	7109.6	100.0

Coefficient of Utilization



REPORT NUMBER: P197546

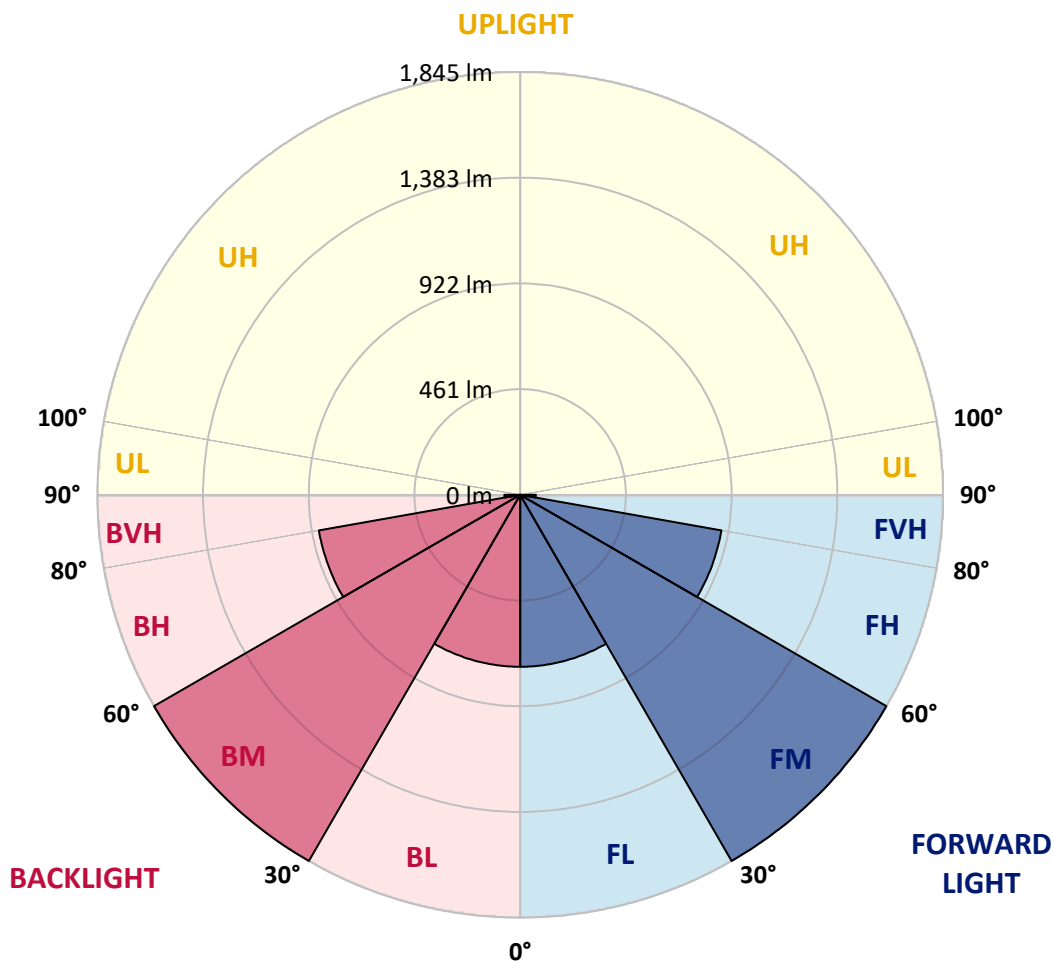
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	749.9	10.5			
FM	(30°-60°)	1844.5	25.9			
FH	(60°-80°)	891.7	12.5			G1/1800
FVH	(80°-90°)	68.7	1.0			G1/100
BL	(0°-30°)	749.9	10.5	B2/1000		
BM	(30°-60°)	1844.5	25.9	B2/2500		
BH	(60°-80°)	891.7	12.5	B2/1000		G1/1800
BVH	(80°-90°)	68.7	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





REPORT NUMBER: P197546

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5
2.5°	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5
5°	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1817.8	1816.5
7.5°	1815.0	1815.0	1815.0	1815.0	1816.5	1815.0	1815.0	1816.5	1816.5	1816.5	1816.5
10°	1812.2	1810.9	1810.9	1812.2	1812.2	1812.2	1812.2	1812.2	1813.7	1812.2	1812.2
12.5°	1808.1	1806.6	1808.1	1808.1	1808.1	1809.4	1809.4	1809.4	1810.9	1810.9	1809.4
15°	1803.8	1803.8	1803.8	1803.8	1803.8	1805.3	1805.3	1806.6	1806.6	1806.6	1806.6
17.5°	1798.2	1798.2	1798.2	1799.7	1799.7	1801.0	1801.0	1801.0	1802.5	1802.5	1802.5
20°	1788.5	1787.0	1788.5	1788.5	1789.8	1791.3	1791.3	1792.6	1792.6	1792.6	1792.6
22.5°	1774.4	1774.4	1775.8	1775.8	1777.2	1778.6	1778.6	1780.0	1780.0	1780.0	1780.0
25°	1760.4	1761.8	1761.8	1763.2	1763.2	1764.6	1766.0	1766.0	1766.0	1766.0	1766.0
27.5°	1746.4	1747.8	1747.8	1747.8	1749.2	1750.6	1752.0	1753.4	1754.8	1753.4	1753.4
30°	1730.9	1730.9	1732.4	1733.7	1735.2	1736.6	1739.4	1740.8	1742.2	1740.8	1740.8
32.5°	1714.1	1715.6	1716.9	1718.4	1721.2	1724.0	1726.8	1728.1	1729.6	1728.1	1728.1
35°	1701.6	1701.6	1704.4	1707.2	1710.0	1714.1	1716.9	1719.7	1722.5	1721.2	1719.7
37.5°	1688.9	1688.9	1691.7	1696.0	1701.6	1707.2	1712.8	1716.9	1718.4	1718.4	1716.9
40°	1673.5	1674.9	1677.7	1684.7	1693.1	1700.1	1707.2	1712.8	1715.6	1715.6	1712.8
42.5°	1656.7	1658.1	1662.3	1669.3	1679.1	1687.5	1696.0	1700.1	1704.4	1704.4	1701.6
45°	1632.8	1634.3	1639.9	1646.8	1656.7	1665.1	1674.9	1679.1	1684.7	1683.3	1681.9
47.5°	1602.0	1603.4	1609.1	1616.0	1625.9	1635.6	1645.5	1652.5	1656.7	1656.7	1655.3
50°	1564.2	1565.6	1571.2	1578.2	1590.8	1602.0	1611.9	1618.8	1625.9	1625.9	1624.4
52.5°	1516.5	1519.3	1523.5	1533.4	1547.4	1559.9	1572.6	1583.8	1588.0	1589.4	1588.0
55°	1457.7	1460.5	1466.1	1477.3	1492.7	1508.1	1522.2	1534.7	1540.3	1544.6	1541.8
57.5°	1389.0	1391.8	1398.8	1411.4	1428.2	1443.7	1461.8	1475.9	1480.1	1484.3	1482.9
60°	1307.7	1311.9	1318.9	1332.9	1349.7	1366.5	1383.3	1400.2	1404.4	1410.0	1407.2
62.5°	1212.3	1216.6	1223.6	1239.0	1257.2	1272.7	1292.3	1307.7	1311.9	1317.5	1316.1
65°	1103.0	1107.3	1114.2	1131.1	1147.9	1164.7	1183.0	1199.8	1203.9	1209.5	1208.2
67.5°	978.3	982.5	989.5	1009.2	1026.0	1042.8	1058.2	1075.0	1077.8	1083.4	1082.0
70°	846.6	852.2	857.8	876.0	891.4	905.4	922.3	936.3	941.9	944.7	941.9
72.5°	714.8	719.0	724.6	737.2	748.5	761.0	777.8	787.7	791.9	793.3	793.3
75°	578.8	583.1	583.1	597.1	605.5	612.5	626.5	633.5	636.3	639.1	639.1
77.5°	449.9	447.1	449.9	455.5	461.1	466.7	475.1	479.4	482.2	487.8	485.0
80°	315.3	316.8	318.1	322.4	325.2	326.5	332.1	333.6	334.9	340.5	337.7
82.5°	203.2	200.4	203.2	201.8	204.6	200.4	203.2	207.4	204.6	207.4	208.8
85°	106.5	102.3	102.3	103.7	105.1	102.3	103.7	102.3	102.3	105.1	103.7
87.5°	33.6	32.2	33.6	32.2	33.6	32.2	33.6	35.0	33.6	33.6	35.0
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: P197546

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5
2.5°	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5
5°	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5
7.5°	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1813.7	1815.0
10°	1812.2	1812.2	1812.2	1812.2	1810.9	1810.9	1810.9	1810.9
12.5°	1809.4	1809.4	1808.1	1808.1	1808.1	1808.1	1806.6	1806.6
15°	1806.6	1805.3	1805.3	1803.8	1803.8	1803.8	1802.5	1803.8
17.5°	1802.5	1801.0	1801.0	1799.7	1799.7	1798.2	1798.2	1798.2
20°	1792.6	1791.3	1791.3	1789.8	1789.8	1788.5	1787.0	1787.0
22.5°	1778.6	1778.6	1778.6	1777.2	1775.8	1775.8	1774.4	1774.4
25°	1766.0	1764.6	1764.6	1763.2	1761.8	1761.8	1760.4	1760.4
27.5°	1753.4	1752.0	1750.6	1747.8	1747.8	1746.4	1745.0	1743.6
30°	1739.4	1736.6	1733.7	1732.4	1730.9	1728.1	1726.8	1725.3
32.5°	1725.3	1722.5	1719.7	1716.9	1712.8	1711.3	1708.5	1708.5
35°	1716.9	1712.8	1708.5	1702.9	1698.8	1694.5	1691.7	1690.3
37.5°	1712.8	1707.2	1700.1	1693.1	1686.1	1680.5	1676.3	1676.3
40°	1707.2	1700.1	1691.7	1681.9	1673.5	1666.5	1662.3	1660.9
42.5°	1696.0	1688.9	1677.7	1669.3	1658.1	1651.1	1645.5	1644.0
45°	1676.3	1669.3	1659.5	1648.3	1637.1	1628.7	1623.1	1621.6
47.5°	1651.1	1642.7	1631.5	1620.3	1609.1	1599.2	1593.6	1592.2
50°	1618.8	1610.4	1599.2	1588.0	1575.4	1565.6	1558.6	1558.6
52.5°	1582.4	1572.6	1559.9	1547.4	1533.4	1523.5	1516.5	1515.1
55°	1534.7	1523.5	1510.9	1496.9	1481.5	1470.2	1461.8	1460.5
57.5°	1475.9	1463.3	1449.3	1433.8	1418.4	1405.8	1396.0	1394.6
60°	1401.6	1387.6	1373.6	1358.1	1341.3	1327.3	1317.5	1314.7
62.5°	1310.5	1295.1	1279.6	1265.6	1247.4	1233.4	1223.6	1220.8
65°	1202.6	1189.9	1174.6	1157.7	1138.1	1124.1	1114.2	1112.9
67.5°	1076.4	1063.8	1048.4	1032.9	1013.3	1000.8	990.9	988.1
70°	937.6	926.4	913.9	898.4	881.6	869.0	859.1	857.8
72.5°	790.5	780.7	769.4	758.2	741.4	731.6	723.2	721.8
75°	639.1	629.3	620.9	612.5	599.9	592.8	584.4	584.4
77.5°	485.0	482.2	476.5	466.7	459.7	454.1	449.9	447.1
80°	339.2	336.4	333.6	328.0	323.7	322.4	319.6	316.8
82.5°	207.4	206.0	207.4	204.6	203.2	203.2	201.8	199.0
85°	105.1	106.5	105.1	103.7	103.7	103.7	103.7	102.3
87.5°	33.6	35.0	33.6	32.2	32.2	32.2	32.2	30.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)