

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: P197525

Luminaire Tested: **TT-C5-LED-E1-5CQ-PM-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197525
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-C5-LED-E1-5CQ-PM-LWR-LW-8030
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6508.6 lumens
Efficiency: N/A
Efficacy: 84.5 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): 77
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

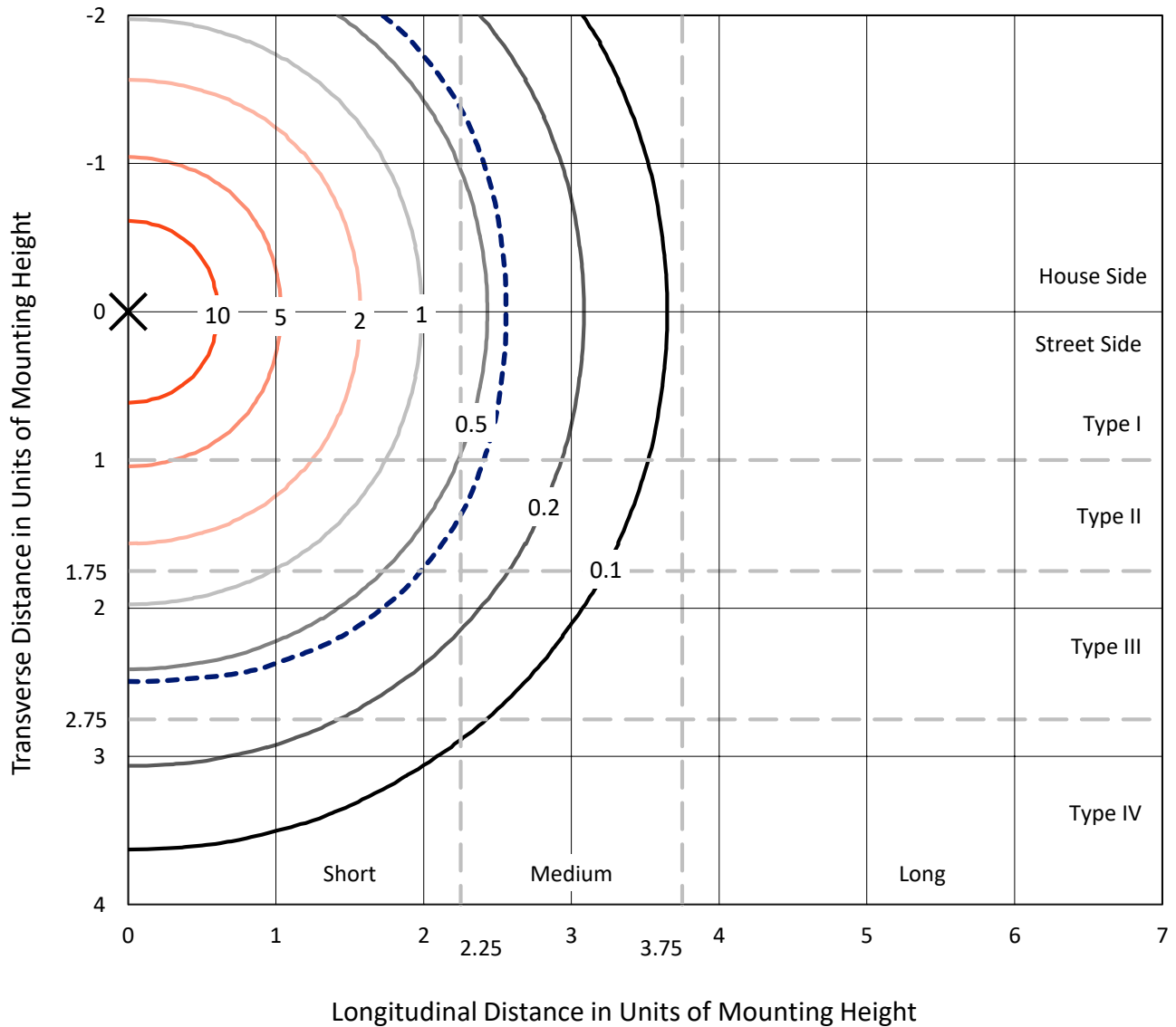


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Iso-Footcandle Lines of Horizontal Illumination

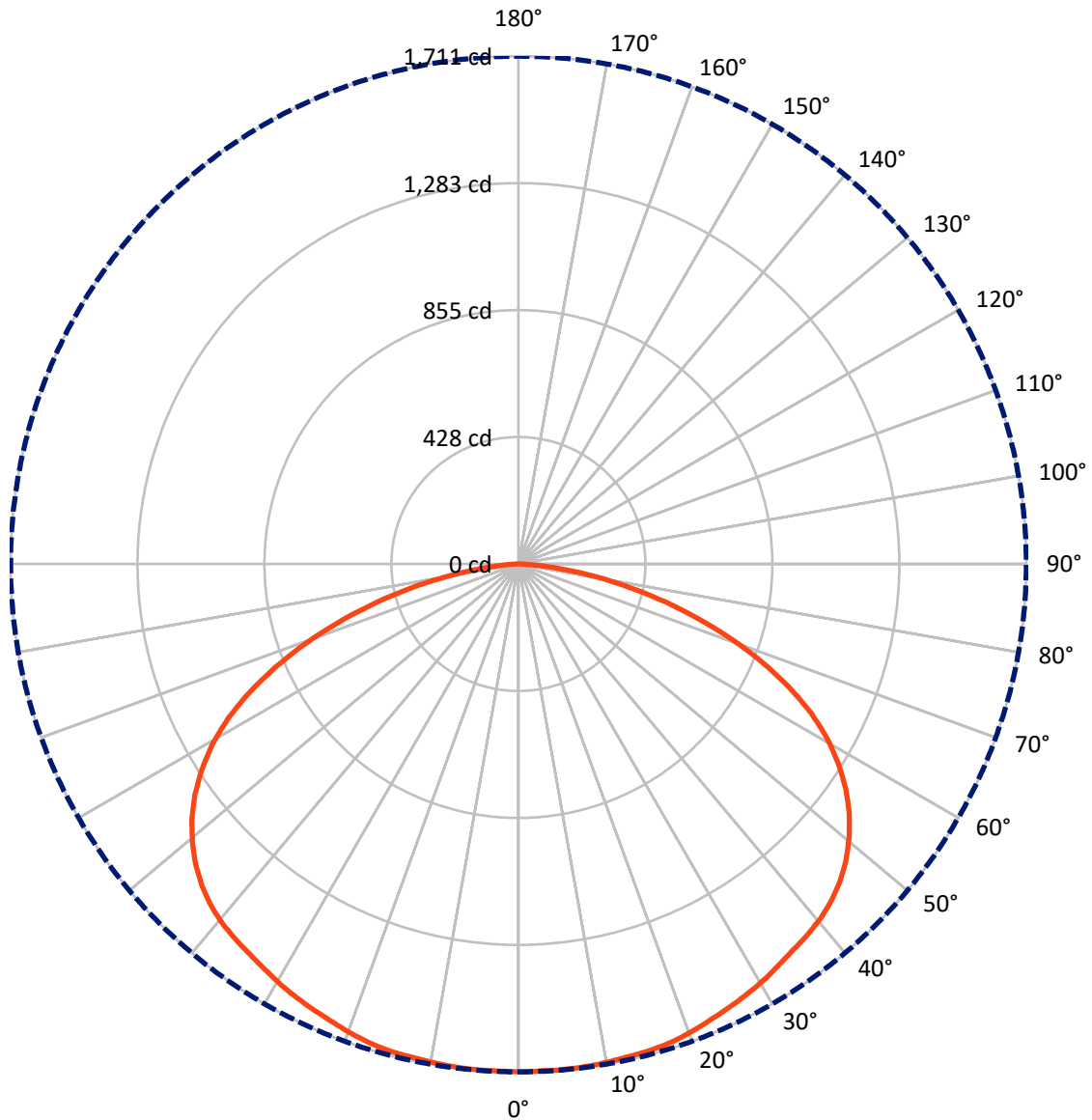
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 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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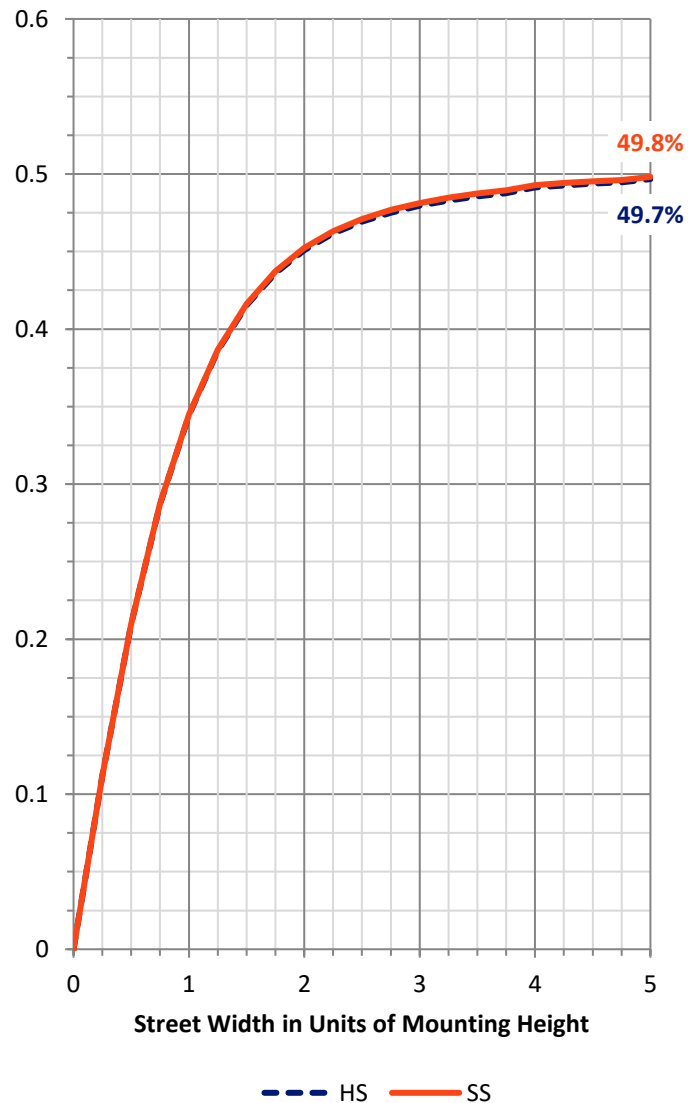
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3254.3	0.0	3254.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3254.3	0.0	3254.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	6508.6	0.0	6508.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	2.5
10°-20°	480.0	7.4
20°-30°	764.4	11.7
30°-40°	1002.3	15.4
40°-50°	1182.0	18.2
50°-60°	1224.2	18.8
60°-70°	1023.8	15.7
70°-80°	558.1	8.6
80°-90°	110.8	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°	6508.6	100.0
0°-180°	6508.6	100.0

Coefficient of Utilization



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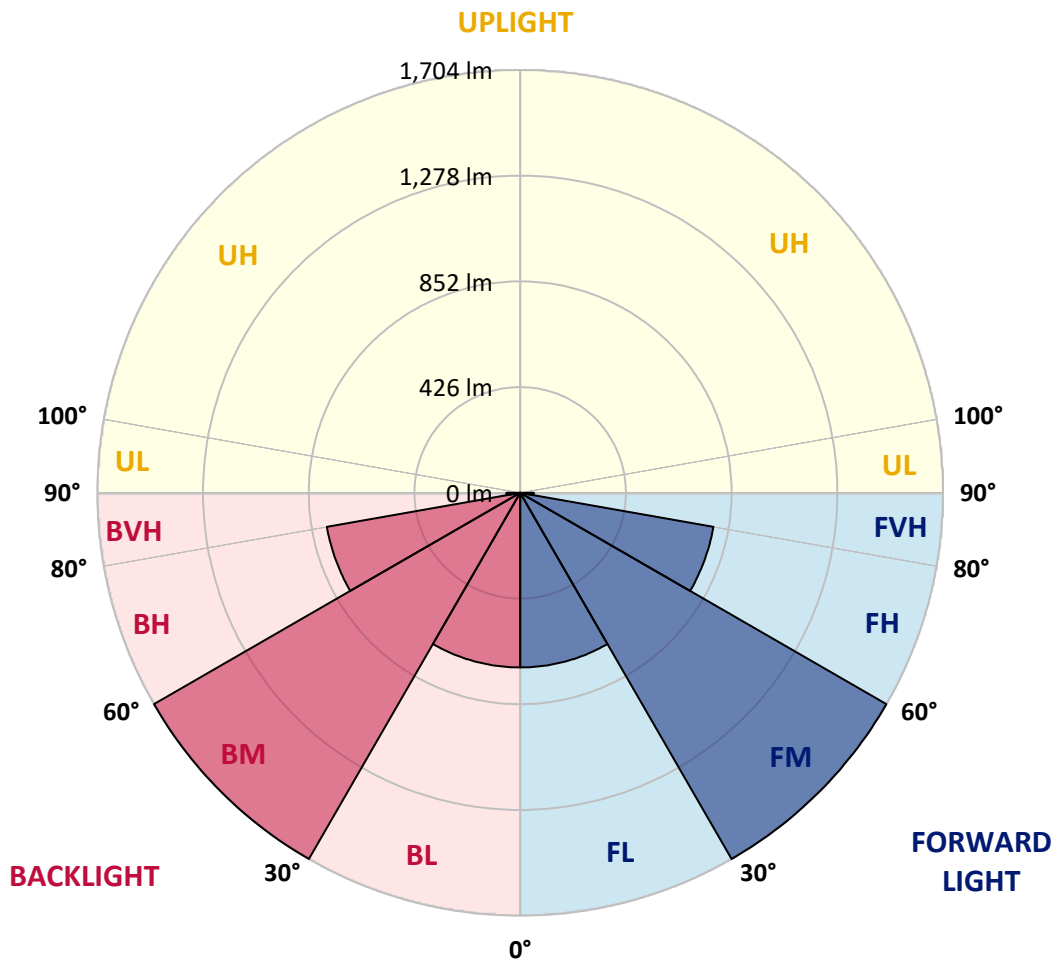
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	703.7	10.8			
FM	(30°-60°)	1704.3	26.2			
FH	(60°-80°)	790.9	12.2			G1/1800
FVH	(80°-90°)	55.4	0.9			G1/100
BL	(0°-30°)	703.7	10.8	B2/1000		
BM	(30°-60°)	1704.3	26.2	B2/2500		
BH	(60°-80°)	790.9	12.2	B2/1000		G1/1800
BVH	(80°-90°)	55.4	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°	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5
2.5°	1709.1	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1709.1	1710.5	1710.5
5°	1709.1	1709.1	1709.1	1709.1	1710.5	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1
7.5°	1707.7	1706.4	1706.4	1706.4	1706.4	1706.4	1707.7	1707.7	1707.7	1707.7	1707.7
10°	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6
12.5°	1699.5	1699.5	1699.5	1699.5	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1699.5
15°	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8
17.5°	1690.0	1690.0	1690.0	1690.0	1691.3	1691.3	1691.3	1691.3	1691.3	1691.3	1691.3
20°	1678.9	1678.9	1678.9	1678.9	1678.9	1680.4	1681.7	1681.7	1681.7	1681.7	1681.7
22.5°	1665.3	1665.3	1666.7	1666.7	1668.0	1668.0	1669.4	1669.4	1669.4	1669.4	1669.4
25°	1652.9	1652.9	1652.9	1654.3	1654.3	1654.3	1655.7	1657.1	1657.1	1657.1	1655.7
27.5°	1640.7	1640.7	1640.7	1642.0	1642.0	1642.0	1643.4	1643.4	1644.7	1643.4	1643.4
30°	1626.9	1625.6	1625.6	1626.9	1628.3	1628.3	1629.6	1629.6	1629.6	1629.6	1628.3
32.5°	1610.5	1610.5	1611.9	1613.2	1613.2	1614.7	1616.0	1616.0	1616.0	1617.4	1614.7
35°	1595.4	1596.8	1596.8	1598.2	1600.9	1602.3	1603.6	1605.0	1605.0	1605.0	1602.3
37.5°	1583.1	1584.5	1585.9	1588.6	1591.4	1594.1	1596.8	1599.6	1598.2	1598.2	1594.1
40°	1568.1	1569.4	1572.1	1574.9	1580.3	1583.1	1587.2	1590.0	1591.4	1590.0	1585.9
42.5°	1547.5	1548.9	1551.6	1555.7	1562.6	1568.1	1572.1	1576.3	1577.6	1576.3	1572.1
45°	1520.1	1521.5	1524.3	1529.7	1537.9	1543.4	1550.3	1554.3	1557.1	1557.1	1553.0
47.5°	1485.9	1487.3	1491.3	1496.8	1505.0	1511.9	1520.1	1525.6	1528.3	1531.0	1527.0
50°	1443.5	1444.8	1450.2	1457.1	1464.0	1473.5	1483.1	1491.3	1495.5	1496.8	1495.5
52.5°	1395.5	1396.9	1402.4	1409.2	1418.8	1429.7	1440.7	1450.2	1455.7	1458.5	1455.7
55°	1338.0	1340.7	1344.9	1354.4	1365.4	1374.9	1388.7	1399.6	1406.4	1407.8	1406.4
57.5°	1270.9	1275.0	1279.1	1290.1	1301.0	1314.7	1325.6	1336.7	1344.9	1346.2	1346.2
60°	1195.5	1198.3	1202.4	1213.3	1225.7	1235.3	1250.3	1261.3	1268.1	1268.1	1269.5
62.5°	1106.5	1109.3	1116.2	1124.4	1138.0	1147.6	1160.0	1170.9	1177.7	1180.4	1179.1
65°	1002.5	1005.2	1009.4	1020.3	1031.2	1042.2	1054.5	1064.1	1070.9	1072.3	1070.9
67.5°	887.5	890.2	892.9	906.6	917.5	921.7	936.8	945.0	949.0	950.4	950.4
70°	765.6	766.9	771.0	777.8	790.2	794.3	803.8	810.7	813.5	818.9	814.9
72.5°	638.2	640.9	650.5	651.9	661.5	667.0	669.7	669.7	676.5	676.5	677.9
75°	512.2	513.6	517.6	519.1	525.8	525.8	524.5	527.3	532.7	532.7	534.1
77.5°	387.5	387.5	394.4	389.0	391.7	386.2	389.0	386.2	390.3	389.0	390.3
80°	271.1	271.1	275.3	269.8	271.1	265.7	267.1	265.7	265.7	267.1	267.1
82.5°	167.0	168.5	171.2	167.0	167.0	163.0	164.3	165.7	165.7	164.3	163.0
85°	82.2	82.2	84.9	83.5	82.2	79.5	80.8	82.2	82.2	80.8	80.8
87.5°	21.9	21.9	23.3	23.3	21.9	20.6	21.9	23.3	23.3	23.3	21.9
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°	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5
2.5°	1709.1	1709.1	1710.5	1709.1	1710.5	1709.1	1710.5	1710.5
5°	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1
7.5°	1706.4	1707.7	1706.4	1706.4	1706.4	1707.7	1706.4	1707.7
10°	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6
12.5°	1699.5	1699.5	1699.5	1699.5	1699.5	1699.5	1699.5	1698.2
15°	1696.8	1695.4	1695.4	1695.4	1694.0	1694.0	1694.0	1694.0
17.5°	1691.3	1690.0	1688.6	1688.6	1688.6	1688.6	1687.2	1687.2
20°	1681.7	1680.4	1678.9	1678.9	1677.6	1677.6	1676.2	1676.2
22.5°	1668.0	1668.0	1666.7	1665.3	1665.3	1664.0	1664.0	1662.5
25°	1655.7	1654.3	1652.9	1651.6	1650.2	1650.2	1648.9	1647.5
27.5°	1642.0	1639.3	1637.9	1636.5	1635.2	1633.8	1632.4	1631.1
30°	1626.9	1624.2	1621.4	1620.1	1617.4	1614.7	1613.2	1611.9
32.5°	1611.9	1609.1	1605.0	1600.9	1598.2	1595.4	1592.7	1591.4
35°	1599.6	1594.1	1590.0	1584.5	1580.3	1576.3	1574.9	1573.6
37.5°	1590.0	1584.5	1577.6	1572.1	1568.1	1562.6	1559.9	1557.1
40°	1580.3	1573.6	1565.4	1558.5	1553.0	1546.1	1543.4	1540.7
42.5°	1566.7	1558.5	1550.3	1542.1	1533.8	1527.0	1522.8	1520.1
45°	1547.5	1539.3	1529.7	1518.8	1510.6	1502.3	1498.2	1495.5
47.5°	1521.5	1513.3	1502.3	1492.8	1483.1	1474.9	1469.5	1466.7
50°	1490.0	1481.7	1470.8	1459.9	1450.2	1440.7	1436.6	1432.4
52.5°	1450.2	1443.5	1431.1	1422.9	1412.0	1402.4	1398.2	1395.5
55°	1400.9	1394.2	1381.8	1373.6	1362.7	1354.4	1348.9	1344.9
57.5°	1340.7	1335.2	1321.6	1313.4	1302.3	1294.1	1290.1	1287.4
60°	1266.8	1261.3	1247.6	1239.4	1229.7	1220.2	1217.5	1214.8
62.5°	1175.0	1172.2	1161.3	1151.7	1142.2	1132.6	1129.8	1128.4
65°	1068.2	1065.4	1055.8	1047.6	1039.4	1031.2	1028.5	1025.8
67.5°	946.3	945.0	936.8	929.9	924.4	916.2	914.8	912.1
70°	816.2	813.5	806.7	801.1	797.1	790.2	788.9	786.1
72.5°	680.6	679.3	675.2	668.3	668.3	658.8	657.3	656.0
75°	531.4	538.2	532.7	530.0	530.0	524.5	524.5	523.1
77.5°	389.0	395.7	399.9	394.4	399.9	394.4	394.4	393.0
80°	265.7	271.1	275.3	271.1	278.0	273.9	273.9	279.4
82.5°	161.6	167.0	169.8	168.5	172.5	171.2	169.8	173.9
85°	79.5	82.2	83.5	83.5	84.9	82.2	84.9	86.3
87.5°	20.6	21.9	23.3	21.9	23.3	23.3	23.3	24.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)