

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: P197695

Luminaire Tested: **TT-C5-LED-E1-MQ-CG-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115363)
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-MQ-CG-MS/DIM-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8255.4 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 77
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



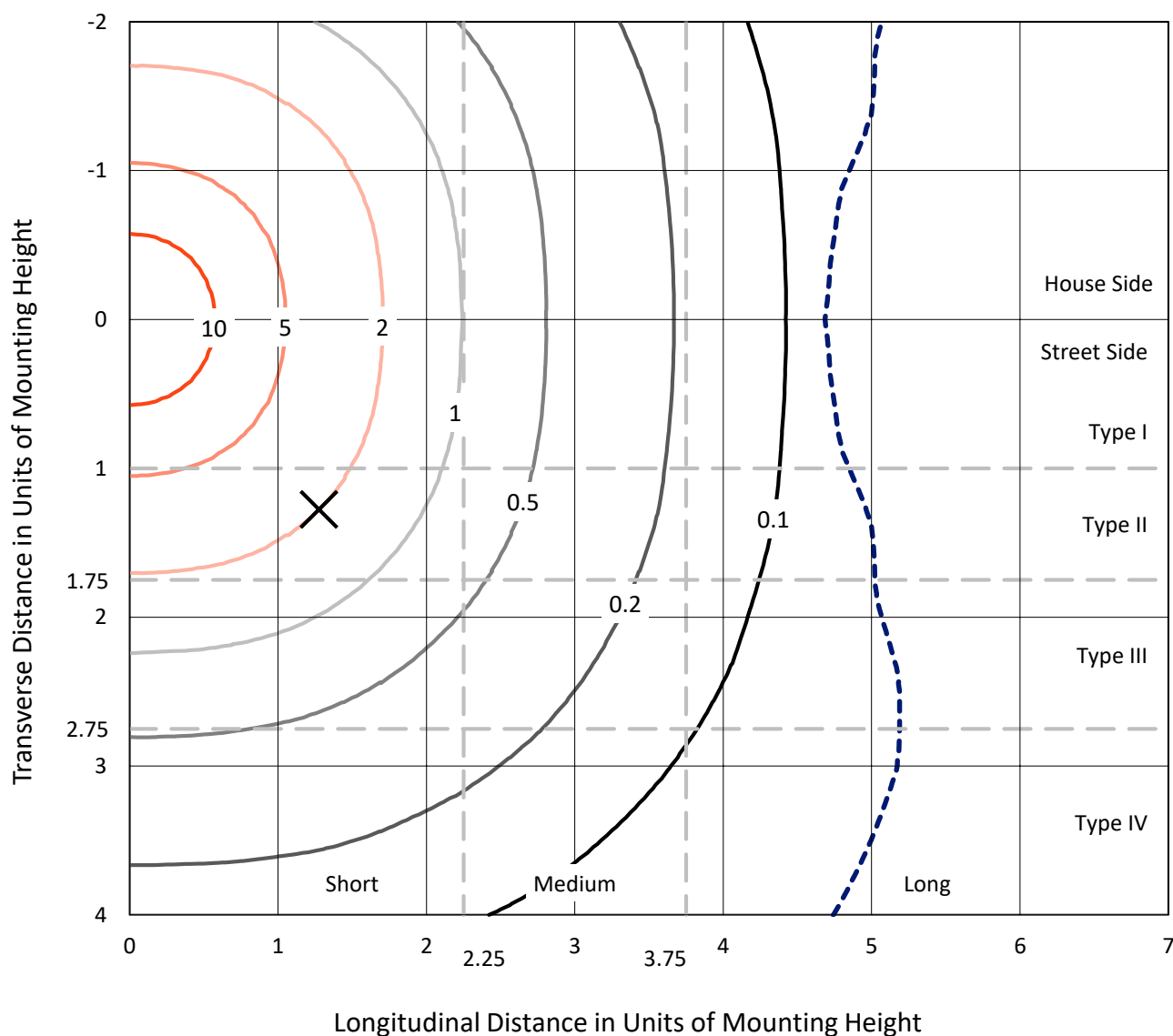
REPORT NUMBER: P197695

CATALOG NUMBER: TT-C5-LED-E1-MQ-CG-MS/DIM-7050

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

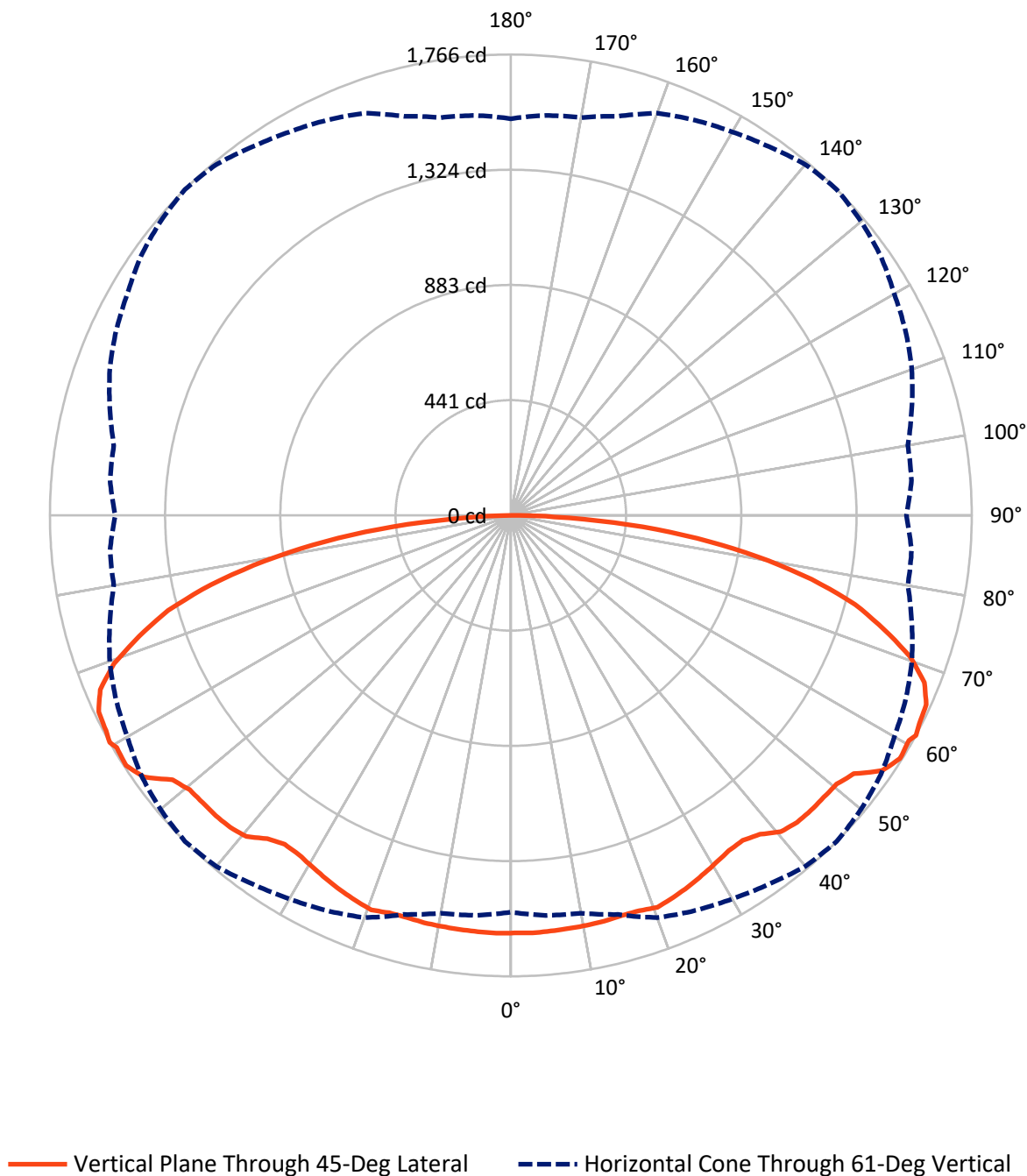


Based on 10 foot mounting height. Maximum calculated value = 16 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197695

CATALOG NUMBER: TT-C5-LED-E1-MQ-CG-MS/DIM-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P197695

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4127.7	0.0	4127.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4127.7	0.0	4127.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	8255.4	0.0	8255.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	1.8
10°-20°	451.1	5.5
20°-30°	725.8	8.8
30°-40°	961.5	11.6
40°-50°	1214.2	14.7
50°-60°	1454.9	17.6
60°-70°	1590.9	19.3
70°-80°	1273.5	15.4
80°-90°	430.9	5.2
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°	8255.4	100.0
0°-180°	8255.4	100.0

Coefficient of Utilization



REPORT NUMBER: P197695

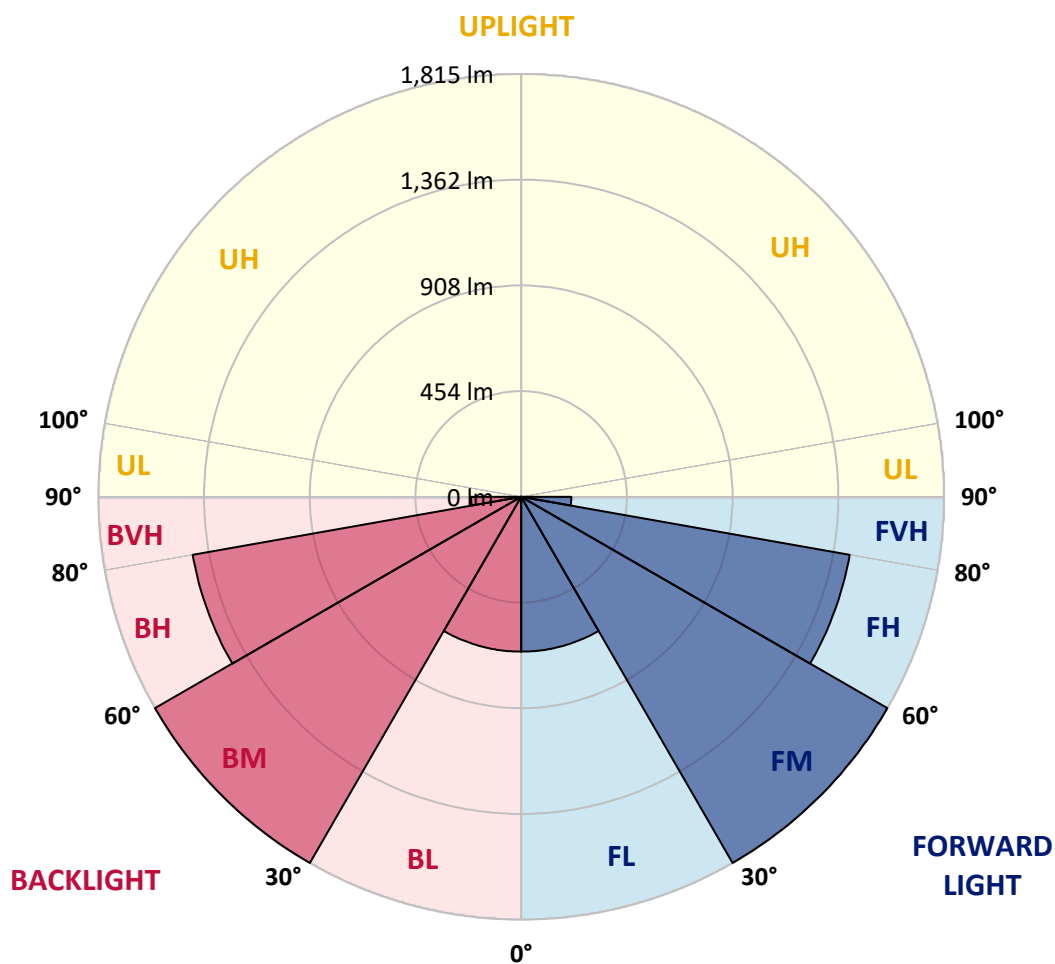
CATALOG NUMBER: TT-C5-LED-E1-MQ-CG-MS/DIM-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	664.8	8.1			
FM	(30°-60°)	1815.3	22.0			
FH	(60°-80°)	1432.2	17.3			G1/1800
FVH	(80°-90°)	215.4	2.6			G2/225
BL	(0°-30°)	664.8	8.1	B2/1000		
BM	(30°-60°)	1815.3	22.0	B2/2500		
BH	(60°-80°)	1432.2	17.3	B3/2500		G1/1800
BVH	(80°-90°)	215.4	2.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



REPORT NUMBER: P197695

CATALOG NUMBER: TT-C5-LED-E1-MQ-CG-MS/DIM-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4
2.5°	1601.0	1599.4	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0
5°	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4
7.5°	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1599.4	1597.8	1599.4
10°	1594.8	1594.8	1594.8	1594.8	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4
12.5°	1591.8	1591.8	1591.8	1591.8	1593.2	1593.2	1593.2	1593.2	1594.8	1594.8	1593.2
15°	1588.6	1587.2	1587.2	1588.6	1588.6	1590.2	1590.2	1590.2	1591.8	1590.2	1590.2
17.5°	1585.6	1584.0	1585.6	1587.2	1587.2	1588.6	1590.2	1590.2	1591.8	1591.8	1591.8
20°	1590.2	1588.6	1590.2	1591.8	1593.2	1596.4	1597.8	1599.4	1601.0	1602.6	1602.6
22.5°	1581.0	1579.4	1581.0	1581.0	1582.6	1584.0	1587.2	1588.6	1590.2	1590.2	1590.2
25°	1567.2	1567.2	1568.7	1568.7	1570.2	1571.8	1573.4	1574.8	1574.8	1576.4	1574.8
27.5°	1551.7	1551.7	1553.3	1553.3	1556.3	1556.3	1557.9	1559.5	1561.0	1561.0	1561.0
30°	1533.3	1533.3	1534.9	1536.3	1539.5	1540.9	1542.5	1544.1	1545.5	1545.5	1545.5
32.5°	1516.5	1514.9	1516.5	1519.5	1524.1	1527.1	1530.3	1531.7	1531.7	1531.7	1533.3
35°	1502.5	1504.1	1507.1	1510.3	1516.5	1519.5	1522.5	1527.1	1528.7	1528.7	1528.7
37.5°	1505.7	1507.1	1511.9	1517.9	1525.7	1534.9	1540.9	1547.1	1551.7	1550.1	1548.7
40°	1525.7	1528.7	1536.3	1545.5	1557.9	1570.2	1579.4	1587.2	1591.8	1593.2	1591.8
42.5°	1528.7	1531.7	1537.9	1551.7	1565.6	1579.4	1591.8	1599.4	1605.6	1607.2	1605.6
45°	1527.1	1527.1	1536.3	1551.7	1565.6	1579.4	1594.8	1605.6	1611.8	1611.8	1611.8
47.5°	1516.5	1521.1	1527.1	1542.5	1561.0	1574.8	1590.2	1601.0	1608.6	1613.2	1608.6
50°	1516.5	1516.5	1527.1	1537.9	1554.7	1579.4	1601.0	1611.8	1619.4	1617.8	1619.4
52.5°	1513.3	1522.5	1528.7	1544.1	1574.8	1599.4	1616.4	1631.7	1642.5	1644.1	1640.9
55°	1540.9	1542.5	1556.3	1585.6	1614.8	1642.5	1673.3	1696.3	1714.8	1725.6	1710.2
57.5°	1562.5	1554.7	1582.6	1607.2	1640.9	1682.5	1728.6	1747.0	1760.9	1757.8	1762.5
60°	1533.3	1544.1	1564.1	1590.2	1644.1	1685.5	1710.2	1730.2	1747.0	1751.6	1745.6
61°	1519.5	1537.9	1547.1	1582.6	1639.5	1670.1	1696.3	1724.0	1754.8	1765.5	1751.6
62.5°	1496.4	1525.7	1522.5	1579.4	1614.8	1650.3	1699.4	1731.6	1753.2	1756.2	1753.2
65°	1497.9	1493.3	1528.7	1570.2	1605.6	1668.7	1710.2	1730.2	1742.4	1748.6	1745.6
67.5°	1448.8	1433.4	1476.4	1505.7	1565.6	1614.8	1654.9	1683.9	1702.6	1708.6	1701.0
70°	1335.0	1345.6	1376.5	1421.1	1470.2	1530.3	1567.2	1605.6	1621.0	1622.4	1622.4
72.5°	1225.7	1231.9	1262.7	1304.2	1361.0	1413.3	1450.2	1481.0	1494.8	1496.4	1499.5
75°	1081.2	1087.2	1122.7	1161.1	1218.0	1262.7	1288.7	1325.6	1345.6	1362.6	1348.8
77.5°	913.6	924.2	952.0	993.5	1045.8	1070.4	1116.5	1159.5	1173.4	1178.0	1173.4
80°	724.3	738.1	762.8	818.2	841.3	881.3	925.8	944.2	956.6	959.6	961.2
82.5°	521.4	532.2	558.2	596.7	622.9	655.2	685.8	709.1	722.9	719.7	718.3
85°	307.7	310.7	338.3	364.5	384.6	404.4	429.0	446.1	449.1	455.3	453.7
87.5°	92.3	93.7	106.2	120.0	129.2	138.4	153.8	173.9	178.5	166.1	167.6
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: P197695

CATALOG NUMBER: TT-C5-LED-E1-MQ-CG-MS/DIM-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4
2.5°	1601.0	1601.0	1601.0	1601.0	1601.0	1601.0	1599.4	1601.0
5°	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4
7.5°	1599.4	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8
10°	1596.4	1596.4	1596.4	1596.4	1594.8	1594.8	1594.8	1594.8
12.5°	1593.2	1593.2	1593.2	1593.2	1591.8	1591.8	1591.8	1591.8
15°	1590.2	1590.2	1590.2	1590.2	1588.6	1588.6	1588.6	1588.6
17.5°	1591.8	1590.2	1588.6	1588.6	1587.2	1585.6	1585.6	1585.6
20°	1601.0	1599.4	1596.4	1593.2	1591.8	1590.2	1590.2	1590.2
22.5°	1588.6	1587.2	1584.0	1582.6	1582.6	1581.0	1579.4	1579.4
25°	1574.8	1571.8	1571.8	1570.2	1570.2	1567.2	1567.2	1565.6
27.5°	1559.5	1557.9	1556.3	1554.7	1554.7	1553.3	1551.7	1550.1
30°	1545.5	1542.5	1539.5	1537.9	1536.3	1534.9	1534.9	1534.9
32.5°	1531.7	1528.7	1527.1	1522.5	1519.5	1517.9	1516.5	1516.5
35°	1527.1	1522.5	1519.5	1514.9	1510.3	1507.1	1505.7	1502.5
37.5°	1545.5	1539.5	1534.9	1527.1	1516.5	1511.9	1507.1	1505.7
40°	1585.6	1579.4	1570.2	1557.9	1545.5	1536.3	1528.7	1525.7
42.5°	1599.4	1591.8	1579.4	1567.2	1551.7	1537.9	1531.7	1528.7
45°	1604.0	1596.4	1579.4	1564.1	1550.1	1537.9	1528.7	1525.7
47.5°	1599.4	1588.6	1573.4	1561.0	1540.9	1525.7	1519.5	1514.9
50°	1610.2	1601.0	1581.0	1553.3	1536.3	1527.1	1516.5	1514.9
52.5°	1631.7	1614.8	1596.4	1576.4	1544.1	1525.7	1519.5	1511.9
55°	1696.3	1673.3	1640.9	1608.6	1588.6	1559.5	1540.9	1540.9
57.5°	1745.6	1727.0	1685.5	1642.5	1605.6	1584.0	1556.3	1557.9
60°	1731.6	1707.2	1687.1	1644.1	1591.8	1562.5	1551.7	1531.7
61°	1730.2	1696.3	1668.7	1634.9	1590.2	1544.1	1540.9	1514.9
62.5°	1733.2	1702.6	1650.3	1614.8	1581.0	1521.1	1519.5	1494.8
65°	1730.2	1701.0	1674.7	1608.6	1562.5	1537.9	1485.6	1505.7
67.5°	1682.5	1656.3	1608.6	1571.8	1501.1	1470.2	1441.0	1441.0
70°	1607.2	1568.7	1522.5	1476.4	1428.7	1376.5	1350.2	1335.0
72.5°	1481.0	1448.8	1411.7	1362.6	1304.2	1256.5	1231.9	1221.0
75°	1322.6	1287.3	1254.9	1218.0	1156.5	1116.5	1090.4	1082.6
77.5°	1156.5	1125.7	1068.8	1033.5	991.9	945.8	922.8	913.6
80°	944.2	927.4	887.3	830.5	810.4	753.5	738.1	724.3
82.5°	709.1	690.4	653.6	613.7	589.1	556.6	529.0	526.0
85°	446.1	433.7	410.6	381.4	350.7	332.1	307.7	313.7
87.5°	166.1	158.4	144.6	126.2	112.2	100.0	87.7	92.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)