

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: P197694

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197694  
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  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR  
Light Source: (160) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

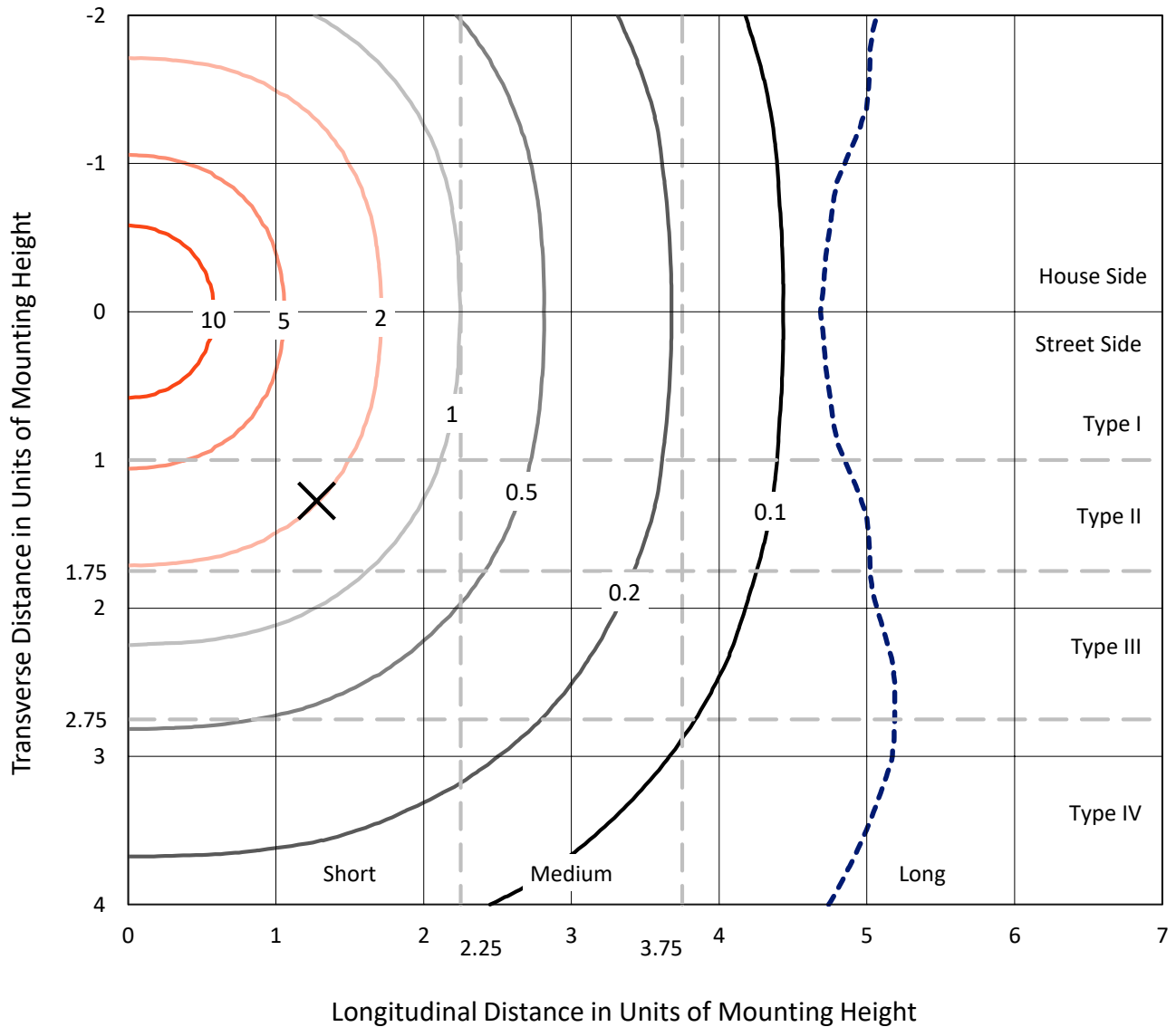
Lumens per Lamp: N/A  
Luminaire Lumens: 8334.2 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 77  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

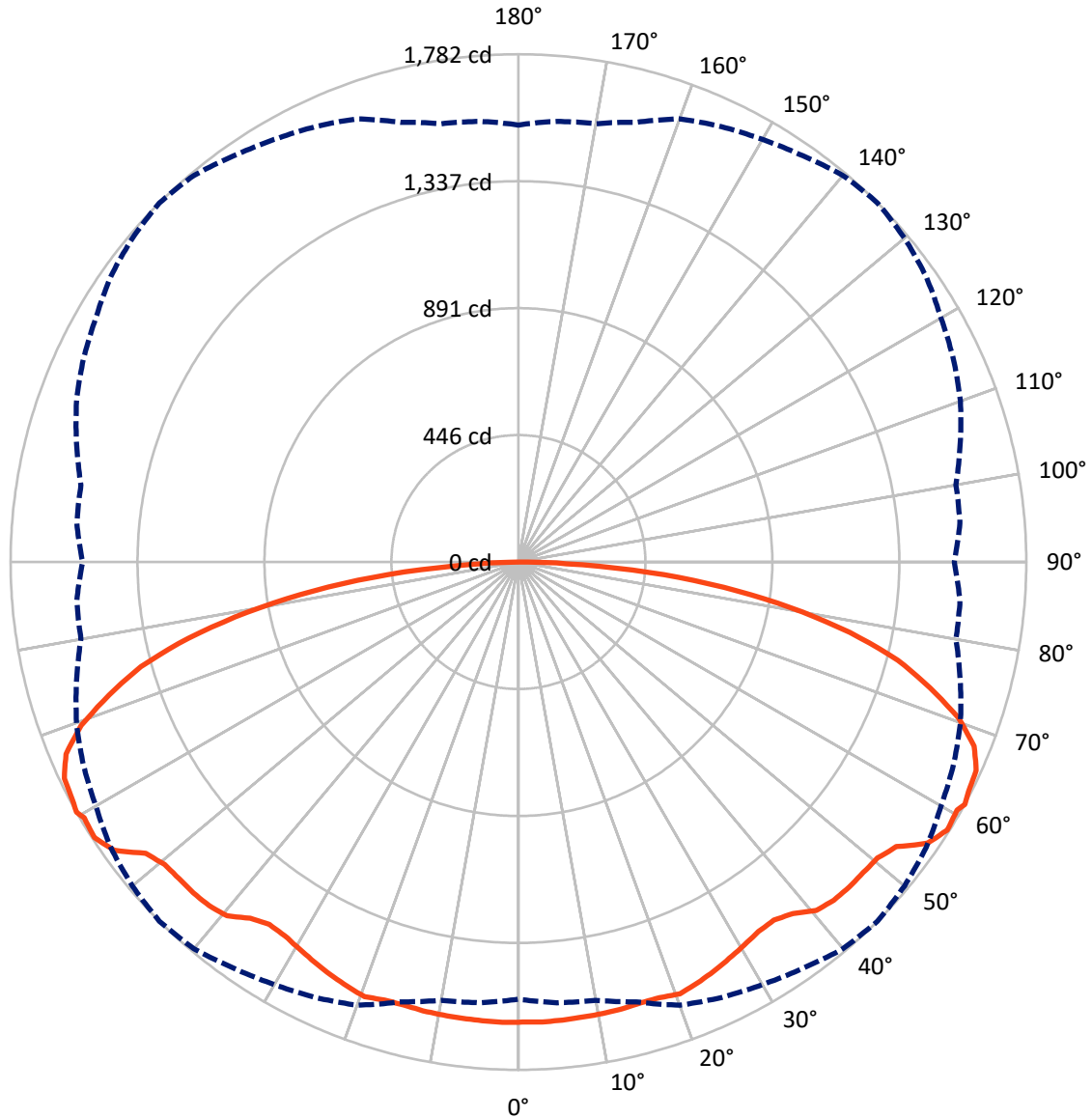
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 61-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4167.1	0.0	4167.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4167.1	0.0	4167.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8334.2	0.0	8334.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.0	1.8
10°-20°	455.4	5.5
20°-30°	732.8	8.8
30°-40°	970.7	11.6
40°-50°	1225.8	14.7
50°-60°	1468.8	17.6
60°-70°	1606.0	19.3
70°-80°	1285.6	15.4
80°-90°	435.0	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°	8334.2	100.0
0°-180°	8334.2	100.0



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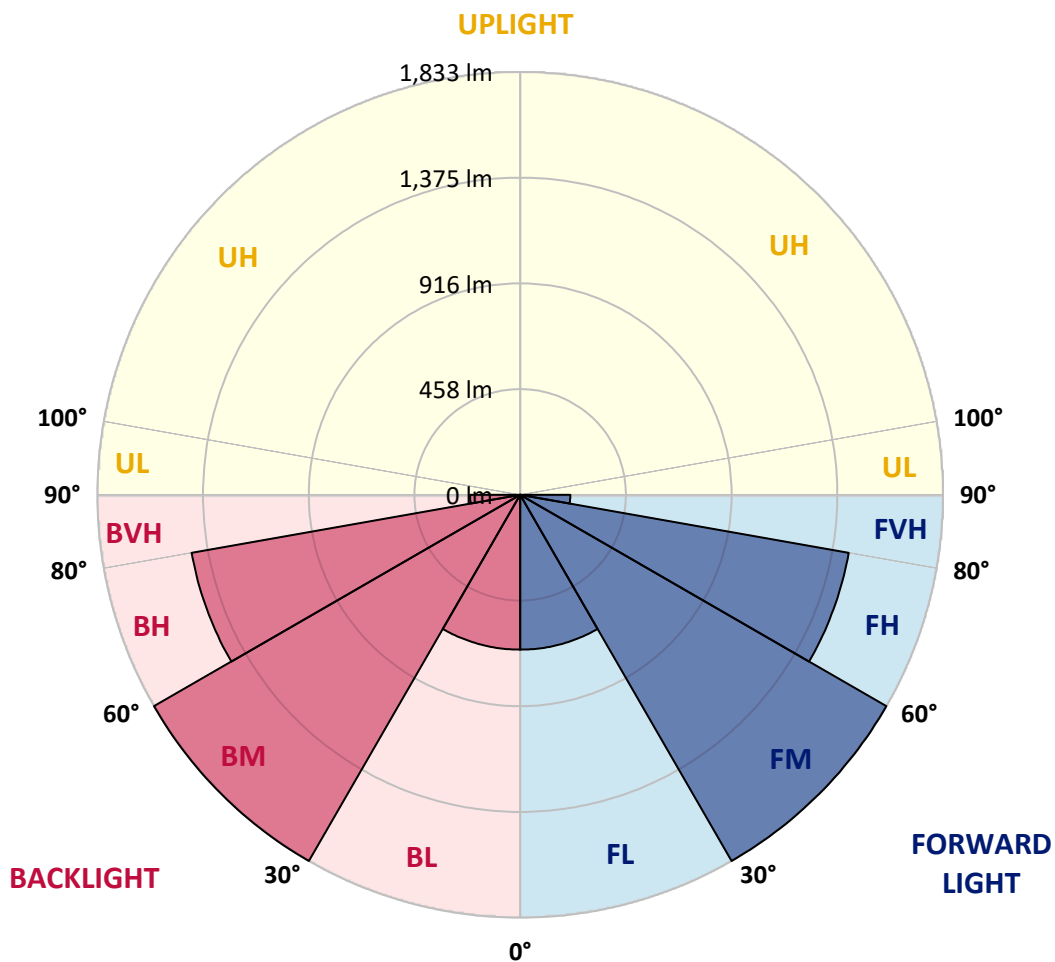
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	671.1	8.1			
FM	(30°-60°)	1832.7	22.0			
FH	(60°-80°)	1445.8	17.3			G1/1800
FVH	(80°-90°)	217.5	2.6			G2/225
BL	(0°-30°)	671.1	8.1	B2/1000		
BM	(30°-60°)	1832.7	22.0	B2/2500		
BH	(60°-80°)	1445.8	17.3	B3/2500		G1/1800
BVH	(80°-90°)	217.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7
2.5°	1616.3	1614.7	1616.3	1616.3	1616.3	1616.3	1616.3	1616.3	1616.3	1616.3	1616.3
5°	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7
7.5°	1613.1	1613.1	1613.1	1613.1	1613.1	1613.1	1613.1	1613.1	1614.7	1613.1	1614.7
10°	1610.0	1610.0	1610.0	1610.0	1611.6	1611.6	1611.6	1611.6	1611.6	1611.6	1611.6
12.5°	1607.0	1607.0	1607.0	1607.0	1608.4	1608.4	1608.4	1608.4	1610.0	1610.0	1608.4
15°	1603.8	1602.3	1602.3	1603.8	1603.8	1605.4	1605.4	1605.4	1607.0	1605.4	1605.4
17.5°	1600.7	1599.1	1600.7	1602.3	1602.3	1603.8	1605.4	1605.4	1607.0	1607.0	1607.0
20°	1605.4	1603.8	1605.4	1607.0	1608.4	1611.6	1613.1	1614.7	1616.3	1617.9	1617.9
22.5°	1596.1	1594.5	1596.1	1596.1	1597.7	1599.1	1602.3	1603.8	1605.4	1605.4	1605.4
25°	1582.1	1582.1	1583.7	1583.7	1585.2	1586.8	1588.4	1589.8	1589.8	1591.4	1589.8
27.5°	1566.6	1566.6	1568.2	1568.2	1571.2	1571.2	1572.8	1574.4	1575.9	1575.9	1575.9
30°	1548.0	1548.0	1549.6	1551.0	1554.2	1555.6	1557.3	1558.9	1560.3	1560.3	1560.3
32.5°	1531.0	1529.3	1531.0	1534.0	1538.6	1541.7	1544.9	1546.3	1546.3	1546.3	1548.0
35°	1516.8	1518.4	1521.5	1524.7	1531.0	1534.0	1537.0	1541.7	1543.3	1543.3	1543.3
37.5°	1520.0	1521.5	1526.3	1532.4	1540.3	1549.6	1555.6	1561.9	1566.6	1564.9	1563.5
40°	1540.3	1543.3	1551.0	1560.3	1572.8	1585.2	1594.5	1602.3	1607.0	1608.4	1607.0
42.5°	1543.3	1546.3	1552.6	1566.6	1580.5	1594.5	1607.0	1614.7	1620.9	1622.6	1620.9
45°	1541.7	1541.7	1551.0	1566.6	1580.5	1594.5	1610.0	1620.9	1627.2	1627.2	1627.2
47.5°	1531.0	1535.6	1541.7	1557.3	1575.9	1589.8	1605.4	1616.3	1624.0	1628.6	1624.0
50°	1531.0	1531.0	1541.7	1552.6	1569.6	1594.5	1616.3	1627.2	1634.9	1633.3	1634.9
52.5°	1527.7	1537.0	1543.3	1558.9	1589.8	1614.7	1631.9	1647.2	1658.2	1659.8	1656.6
55°	1555.6	1557.3	1571.2	1600.7	1630.3	1658.2	1689.3	1712.6	1731.2	1742.1	1726.5
57.5°	1577.5	1569.6	1597.7	1622.6	1656.6	1698.6	1745.1	1763.7	1777.7	1774.6	1779.3
60°	1548.0	1558.9	1579.1	1605.4	1659.8	1701.6	1726.5	1746.7	1763.7	1768.4	1762.3
61°	1534.0	1552.6	1561.9	1597.7	1655.1	1686.1	1712.6	1740.5	1771.6	1782.3	1768.4
62.5°	1510.7	1540.3	1537.0	1594.5	1630.3	1666.0	1715.6	1748.2	1770.0	1773.0	1770.0
65°	1512.2	1507.5	1543.3	1585.2	1620.9	1684.6	1726.5	1746.7	1759.1	1765.3	1762.3
67.5°	1462.6	1447.0	1490.5	1520.0	1580.5	1630.3	1670.7	1700.0	1718.8	1724.9	1717.2
70°	1347.7	1358.5	1389.6	1434.7	1484.3	1544.9	1582.1	1620.9	1636.5	1637.9	1637.9
72.5°	1237.4	1243.6	1274.8	1316.6	1374.0	1426.8	1464.0	1495.2	1509.1	1510.7	1513.8
75°	1091.5	1097.6	1133.4	1172.2	1229.7	1274.8	1301.1	1338.3	1358.5	1375.7	1361.7
77.5°	922.3	933.0	961.1	1003.0	1055.8	1080.6	1127.1	1170.6	1184.6	1189.2	1184.6
80°	731.2	745.2	770.0	826.0	849.3	889.7	934.6	953.2	965.8	968.8	970.4
82.5°	526.4	537.3	563.6	602.4	628.9	661.4	692.4	715.8	729.8	726.6	725.1
85°	310.6	313.6	341.5	368.0	388.2	408.3	433.1	450.3	453.4	459.6	458.0
87.5°	93.2	94.6	107.2	121.1	130.4	139.7	155.3	175.5	180.2	167.6	169.3
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°	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7
2.5°	1616.3	1616.3	1616.3	1616.3	1616.3	1616.3	1614.7	1616.3
5°	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7
7.5°	1614.7	1613.1	1613.1	1613.1	1613.1	1613.1	1613.1	1613.1
10°	1611.6	1611.6	1611.6	1611.6	1610.0	1610.0	1610.0	1610.0
12.5°	1608.4	1608.4	1608.4	1608.4	1607.0	1607.0	1607.0	1607.0
15°	1605.4	1605.4	1605.4	1605.4	1603.8	1603.8	1603.8	1603.8
17.5°	1607.0	1605.4	1603.8	1603.8	1602.3	1600.7	1600.7	1600.7
20°	1616.3	1614.7	1611.6	1608.4	1607.0	1605.4	1605.4	1605.4
22.5°	1603.8	1602.3	1599.1	1597.7	1597.7	1596.1	1594.5	1594.5
25°	1589.8	1586.8	1586.8	1585.2	1585.2	1582.1	1582.1	1580.5
27.5°	1574.4	1572.8	1571.2	1569.6	1569.6	1568.2	1566.6	1564.9
30°	1560.3	1557.3	1554.2	1552.6	1551.0	1549.6	1549.6	1549.6
32.5°	1546.3	1543.3	1541.7	1537.0	1534.0	1532.4	1531.0	1531.0
35°	1541.7	1537.0	1534.0	1529.3	1524.7	1521.5	1520.0	1516.8
37.5°	1560.3	1554.2	1549.6	1541.7	1531.0	1526.3	1521.5	1520.0
40°	1600.7	1594.5	1585.2	1572.8	1560.3	1551.0	1543.3	1540.3
42.5°	1614.7	1607.0	1594.5	1582.1	1566.6	1552.6	1546.3	1543.3
45°	1619.3	1611.6	1594.5	1579.1	1564.9	1552.6	1543.3	1540.3
47.5°	1614.7	1603.8	1588.4	1575.9	1555.6	1540.3	1534.0	1529.3
50°	1625.6	1616.3	1596.1	1568.2	1551.0	1541.7	1531.0	1529.3
52.5°	1647.2	1630.3	1611.6	1591.4	1558.9	1540.3	1534.0	1526.3
55°	1712.6	1689.3	1656.6	1624.0	1603.8	1574.4	1555.6	1555.6
57.5°	1762.3	1743.5	1701.6	1658.2	1620.9	1599.1	1571.2	1572.8
60°	1748.2	1723.5	1703.2	1659.8	1607.0	1577.5	1566.6	1546.3
61°	1746.7	1712.6	1684.6	1650.5	1605.4	1558.9	1555.6	1529.3
62.5°	1749.8	1718.8	1666.0	1630.3	1596.1	1535.6	1534.0	1509.1
65°	1746.7	1717.2	1690.7	1624.0	1577.5	1552.6	1499.8	1520.0
67.5°	1698.6	1672.1	1624.0	1586.8	1515.4	1484.3	1454.7	1454.7
70°	1622.6	1583.7	1537.0	1490.5	1442.4	1389.6	1363.1	1347.7
72.5°	1495.2	1462.6	1425.2	1375.7	1316.6	1268.5	1243.6	1232.7
75°	1335.2	1299.6	1266.9	1229.7	1167.6	1127.1	1100.8	1093.0
77.5°	1167.6	1136.5	1079.0	1043.4	1001.4	954.9	931.6	922.3
80°	953.2	936.2	895.8	838.4	818.2	760.7	745.2	731.2
82.5°	715.8	697.0	659.8	619.6	594.7	562.0	534.1	531.0
85°	450.3	437.8	414.5	385.0	354.1	335.3	310.6	316.7
87.5°	167.6	159.9	146.0	127.4	113.3	100.9	88.6	93.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)