

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: P197721

Luminaire Tested: **TT-C6-LED-E1-MQ-CG-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115348)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C6-LED-E1-MQ-CG-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8218.6 lumens
Efficiency: N/A
Efficacy: 76.1 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): 108
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

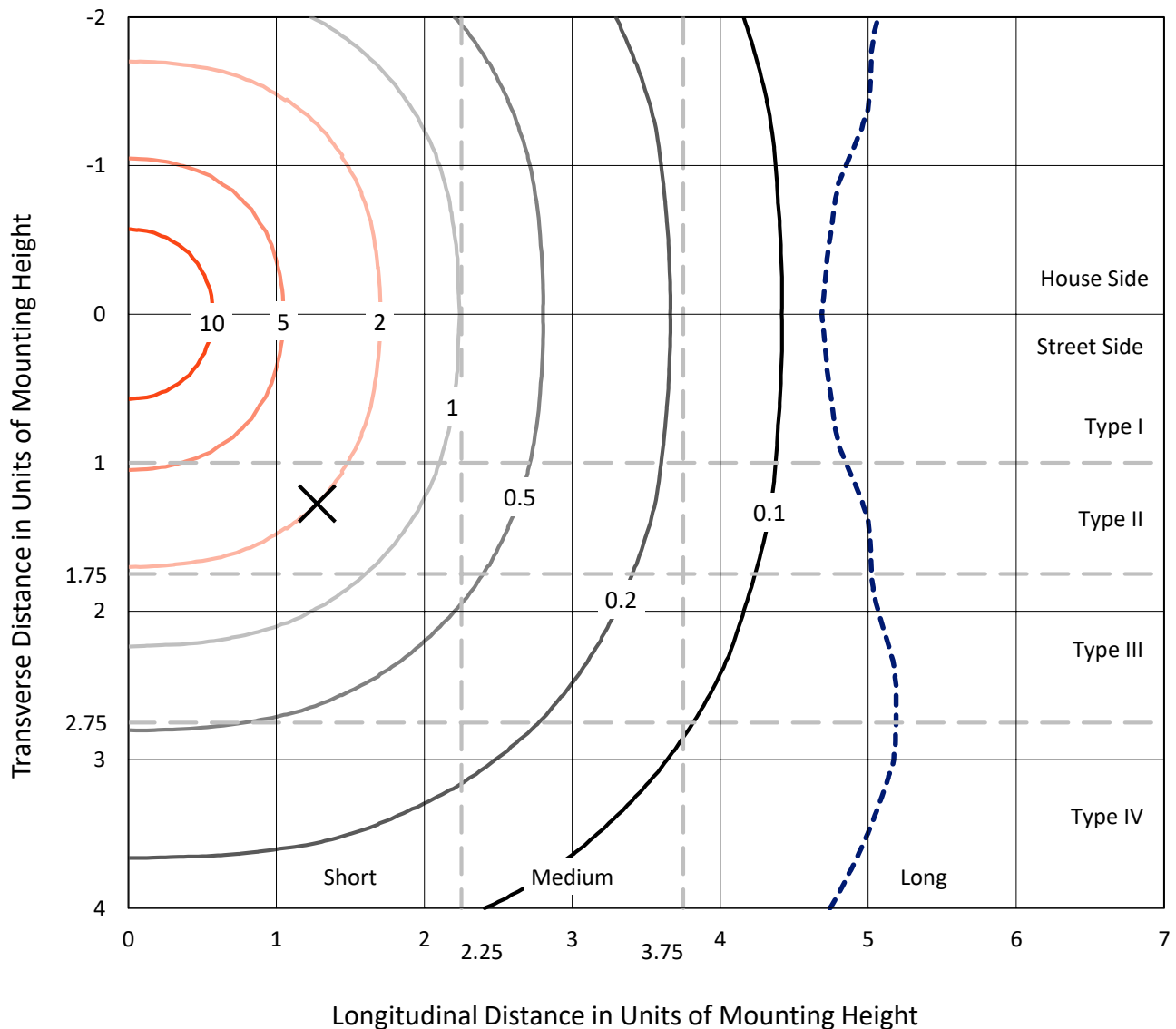


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

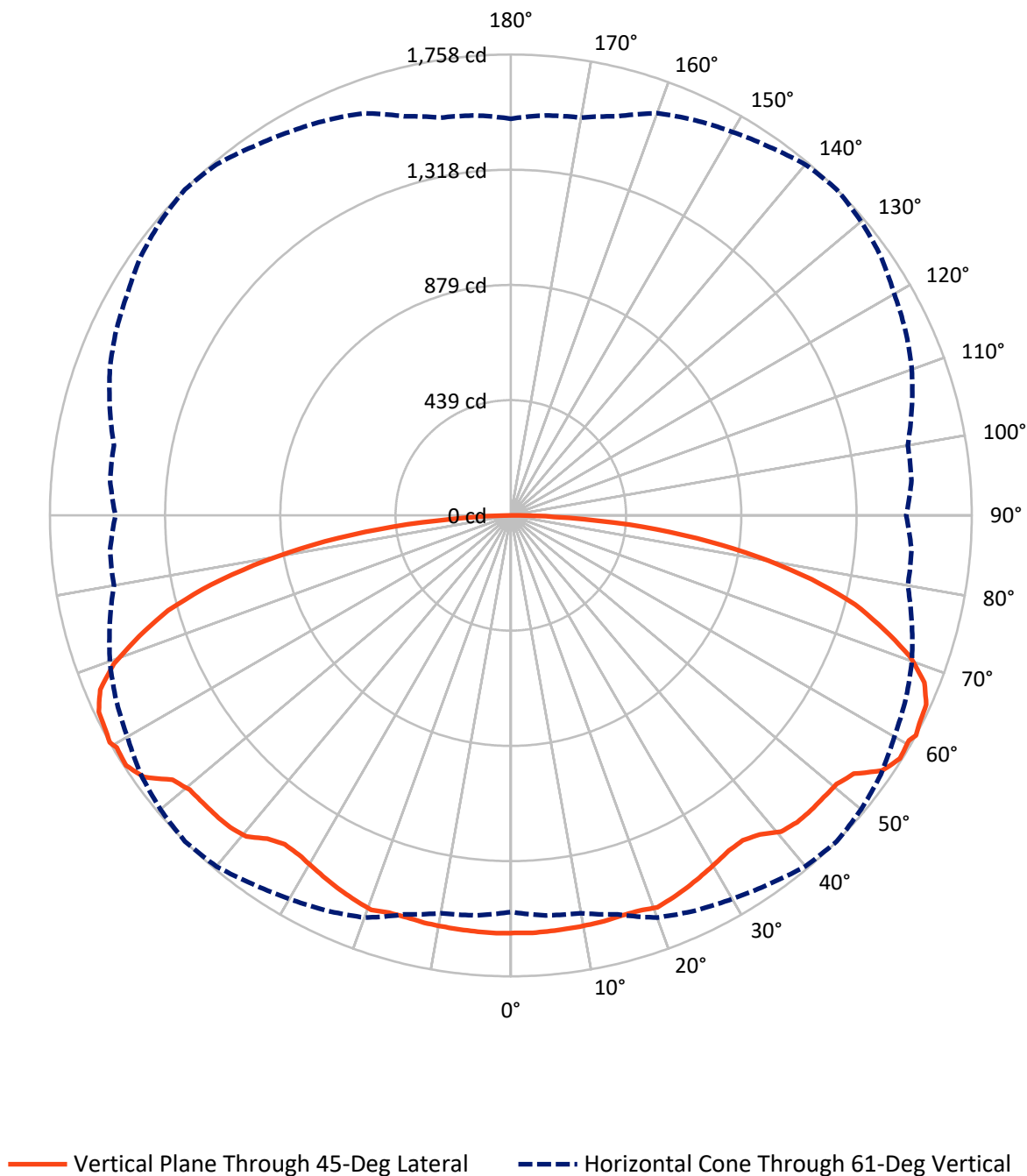


Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4109.3	0.0	4109.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4109.3	0.0	4109.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8218.6	0.0	8218.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	1.8
10°-20°	449.1	5.5
20°-30°	722.6	8.8
30°-40°	957.2	11.6
40°-50°	1208.8	14.7
50°-60°	1448.4	17.6
60°-70°	1583.8	19.3
70°-80°	1267.8	15.4
80°-90°	428.9	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°	8218.6	100.0
0°-180°	8218.6	100.0

Coefficient of Utilization



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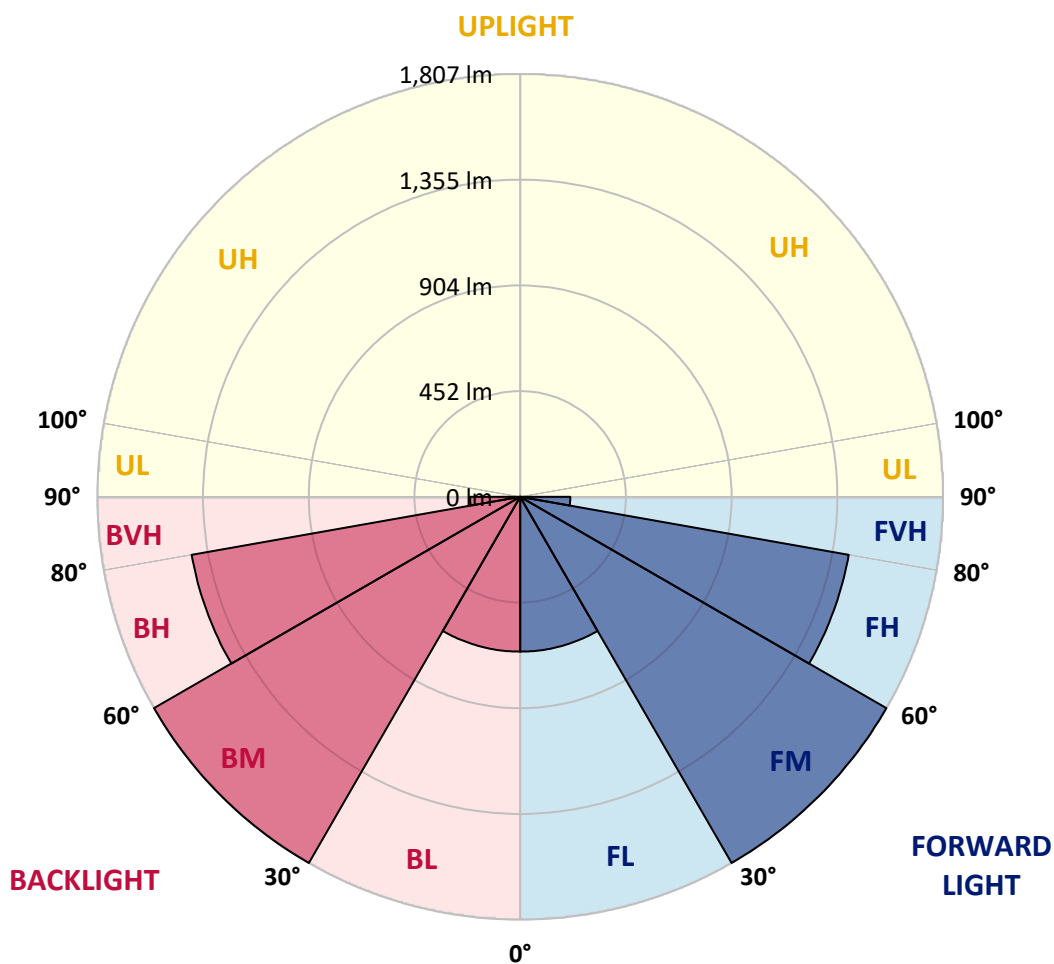
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	661.8	8.1			
FM	(30°-60°)	1807.2	22.0			
FH	(60°-80°)	1425.8	17.3			G1/1800
FVH	(80°-90°)	214.5	2.6			G2/225
BL	(0°-30°)	661.8	8.1	B2/1000		
BM	(30°-60°)	1807.2	22.0	B2/2500		
BH	(60°-80°)	1425.8	17.3	B3/2500		G1/1800
BVH	(80°-90°)	214.5	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°	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3
2.5°	1593.8	1592.3	1593.8	1593.8	1593.8	1593.8	1593.8	1593.8	1593.8	1593.8	1593.8
5°	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3
7.5°	1590.7	1590.7	1590.7	1590.7	1590.7	1590.7	1590.7	1590.7	1592.3	1590.7	1592.3
10°	1587.8	1587.8	1587.8	1587.8	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2
12.5°	1584.7	1584.7	1584.7	1584.7	1586.2	1586.2	1586.2	1586.2	1587.8	1587.8	1586.2
15°	1581.6	1580.0	1580.0	1581.6	1581.6	1583.1	1583.1	1583.1	1584.7	1583.1	1583.1
17.5°	1578.5	1576.9	1578.5	1580.0	1580.0	1581.6	1583.1	1583.1	1584.7	1584.7	1584.7
20°	1583.1	1581.6	1583.1	1584.7	1586.2	1589.2	1590.7	1592.3	1593.8	1595.4	1595.4
22.5°	1574.0	1572.4	1574.0	1574.0	1575.5	1576.9	1580.0	1581.6	1583.1	1583.1	1583.1
25°	1560.2	1560.2	1561.7	1561.7	1563.3	1564.7	1566.2	1567.8	1567.8	1567.8	1567.8
27.5°	1544.8	1544.8	1546.4	1546.4	1549.5	1549.5	1551.0	1552.4	1554.0	1554.0	1554.0
30°	1526.5	1526.5	1527.9	1529.5	1532.6	1534.1	1535.7	1537.2	1538.8	1538.8	1538.8
32.5°	1509.6	1508.1	1509.6	1512.7	1517.2	1520.3	1523.4	1525.0	1525.0	1525.0	1526.5
35°	1495.8	1497.4	1500.5	1503.4	1509.6	1512.7	1515.7	1520.3	1521.9	1521.9	1521.9
37.5°	1498.9	1500.5	1505.0	1511.2	1518.8	1527.9	1534.1	1540.2	1544.8	1543.3	1541.7
40°	1518.8	1521.9	1529.5	1538.8	1551.0	1563.3	1572.4	1580.0	1584.7	1586.2	1584.7
42.5°	1521.9	1525.0	1531.0	1544.8	1558.6	1572.4	1584.7	1592.3	1598.5	1600.0	1598.5
45°	1520.3	1520.3	1529.5	1544.8	1558.6	1572.4	1587.8	1598.5	1604.5	1604.5	1604.5
47.5°	1509.6	1514.3	1520.3	1535.7	1554.0	1567.8	1583.1	1593.8	1601.4	1606.1	1601.4
50°	1509.6	1509.6	1520.3	1531.0	1547.9	1572.4	1593.8	1604.5	1612.3	1610.7	1612.3
52.5°	1506.5	1515.7	1521.9	1537.2	1567.8	1592.3	1609.2	1624.5	1635.2	1636.8	1633.7
55°	1534.1	1535.7	1549.5	1578.5	1607.6	1635.2	1665.7	1688.7	1707.1	1717.8	1702.5
57.5°	1555.5	1547.9	1575.5	1600.0	1633.7	1675.1	1720.9	1739.2	1753.0	1749.9	1754.6
60°	1526.5	1537.2	1557.1	1583.1	1636.8	1678.0	1702.5	1722.5	1739.2	1743.9	1737.7
61°	1512.7	1531.0	1540.2	1575.5	1632.1	1662.8	1688.7	1716.3	1747.0	1757.7	1743.9
62.5°	1489.8	1518.8	1515.7	1572.4	1607.6	1642.8	1691.8	1724.0	1745.4	1748.5	1745.4
65°	1491.2	1486.7	1521.9	1563.3	1598.5	1661.3	1702.5	1722.5	1734.7	1740.8	1737.7
67.5°	1442.2	1427.0	1469.8	1498.9	1558.6	1607.6	1647.5	1676.4	1694.9	1700.9	1693.3
70°	1329.0	1339.7	1370.3	1414.8	1463.8	1523.4	1560.2	1598.5	1613.7	1615.2	1615.2
72.5°	1220.2	1226.4	1256.9	1298.3	1354.9	1407.0	1443.7	1474.5	1488.2	1489.8	1492.7
75°	1076.3	1082.4	1117.7	1156.0	1212.6	1256.9	1283.0	1319.7	1339.7	1356.5	1342.7
77.5°	909.4	920.2	947.7	989.1	1041.2	1065.6	1111.5	1154.5	1168.3	1172.8	1168.3
80°	721.2	735.0	759.5	814.5	837.4	877.3	921.6	940.1	952.3	955.4	957.0
82.5°	519.0	529.7	555.8	594.1	620.1	652.2	682.9	705.8	719.6	716.5	715.0
85°	306.2	309.3	336.9	362.9	382.8	402.6	427.1	444.0	447.1	453.1	451.6
87.5°	91.9	93.3	105.6	119.4	128.7	137.8	153.2	173.0	177.7	165.4	167.0
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°	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3
2.5°	1593.8	1593.8	1593.8	1593.8	1593.8	1593.8	1592.3	1593.8
5°	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3
7.5°	1592.3	1590.7	1590.7	1590.7	1590.7	1590.7	1590.7	1590.7
10°	1589.2	1589.2	1589.2	1589.2	1587.8	1587.8	1587.8	1587.8
12.5°	1586.2	1586.2	1586.2	1586.2	1584.7	1584.7	1584.7	1584.7
15°	1583.1	1583.1	1583.1	1583.1	1581.6	1581.6	1581.6	1581.6
17.5°	1584.7	1583.1	1581.6	1581.6	1580.0	1578.5	1578.5	1578.5
20°	1593.8	1592.3	1589.2	1586.2	1584.7	1583.1	1583.1	1583.1
22.5°	1581.6	1580.0	1576.9	1575.5	1575.5	1574.0	1572.4	1572.4
25°	1567.8	1564.7	1564.7	1563.3	1563.3	1560.2	1560.2	1558.6
27.5°	1552.4	1551.0	1549.5	1547.9	1547.9	1546.4	1544.8	1543.3
30°	1538.8	1535.7	1532.6	1531.0	1529.5	1527.9	1527.9	1527.9
32.5°	1525.0	1521.9	1520.3	1515.7	1512.7	1511.2	1509.6	1509.6
35°	1520.3	1515.7	1512.7	1508.1	1503.4	1500.5	1498.9	1495.8
37.5°	1538.8	1532.6	1527.9	1520.3	1509.6	1505.0	1500.5	1498.9
40°	1578.5	1572.4	1563.3	1551.0	1538.8	1529.5	1521.9	1518.8
42.5°	1592.3	1584.7	1572.4	1560.2	1544.8	1531.0	1525.0	1521.9
45°	1596.9	1589.2	1572.4	1557.1	1543.3	1531.0	1521.9	1518.8
47.5°	1592.3	1581.6	1566.2	1554.0	1534.1	1518.8	1512.7	1508.1
50°	1603.0	1593.8	1574.0	1546.4	1529.5	1520.3	1509.6	1508.1
52.5°	1624.5	1607.6	1589.2	1569.3	1537.2	1518.8	1512.7	1505.0
55°	1688.7	1665.7	1633.7	1601.4	1581.6	1552.4	1534.1	1534.1
57.5°	1737.7	1719.4	1678.0	1635.2	1598.5	1576.9	1549.5	1551.0
60°	1724.0	1699.6	1679.5	1636.8	1584.7	1555.5	1544.8	1525.0
61°	1722.5	1688.7	1661.3	1627.4	1583.1	1537.2	1534.1	1508.1
62.5°	1725.4	1694.9	1642.8	1607.6	1574.0	1514.3	1512.7	1488.2
65°	1722.5	1693.3	1667.3	1601.4	1555.5	1531.0	1478.9	1498.9
67.5°	1675.1	1649.0	1601.4	1564.7	1494.3	1463.8	1434.6	1434.6
70°	1600.0	1561.7	1515.7	1469.8	1422.4	1370.3	1344.2	1329.0
72.5°	1474.5	1442.2	1405.5	1356.5	1298.3	1250.9	1226.4	1215.7
75°	1316.8	1281.4	1249.4	1212.6	1151.4	1111.5	1085.5	1077.9
77.5°	1151.4	1120.7	1064.1	1028.9	987.5	941.6	918.7	909.4
80°	940.1	923.2	883.5	826.7	806.9	750.2	735.0	721.2
82.5°	705.8	687.4	650.6	611.0	586.5	554.2	526.6	523.7
85°	444.0	431.7	408.8	379.7	349.1	330.7	306.2	312.4
87.5°	165.4	157.7	143.9	125.6	111.8	99.5	87.3	91.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)