

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: P197622

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115333)
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-MS/DIM
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM 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: 9389.5 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

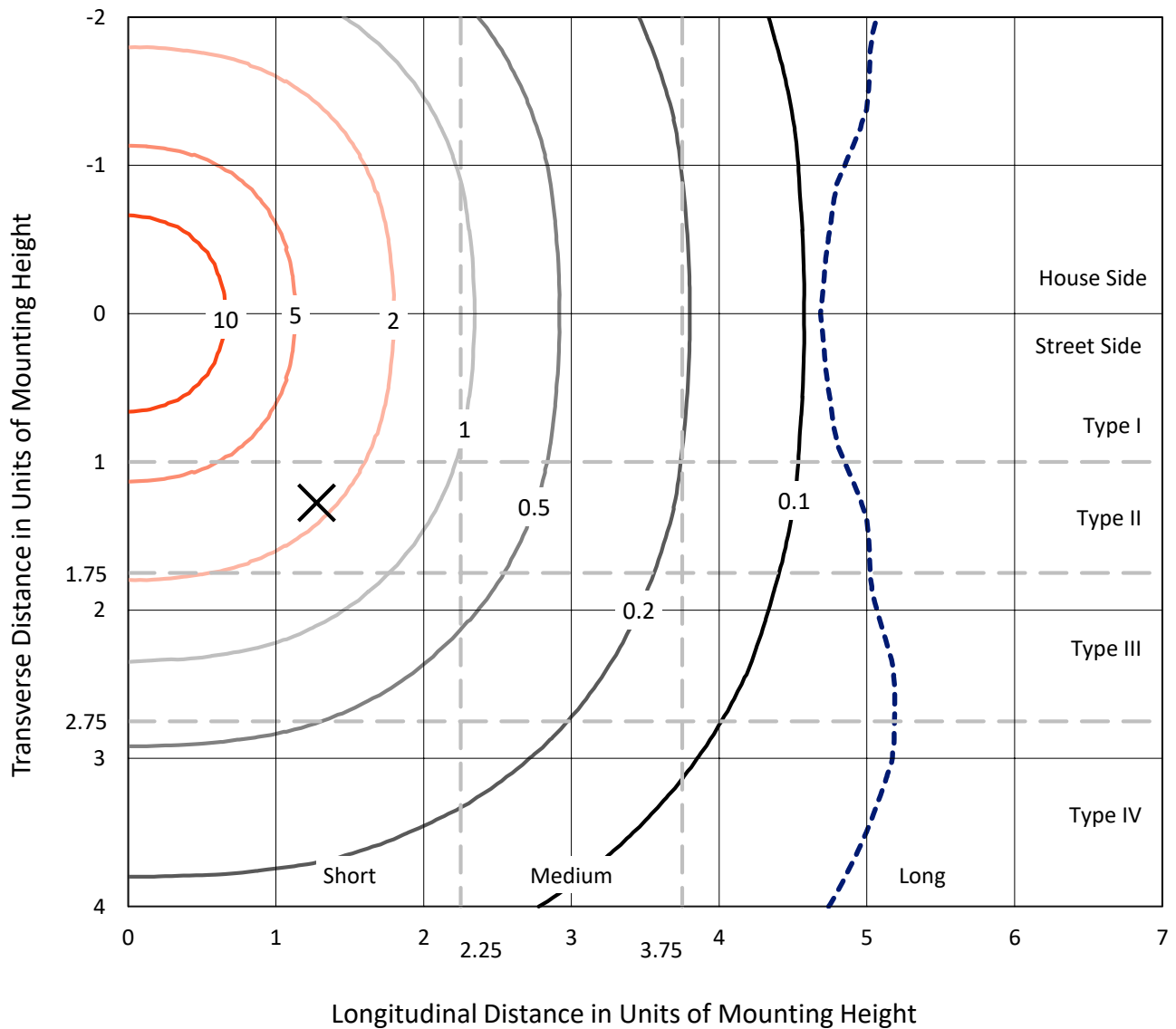
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

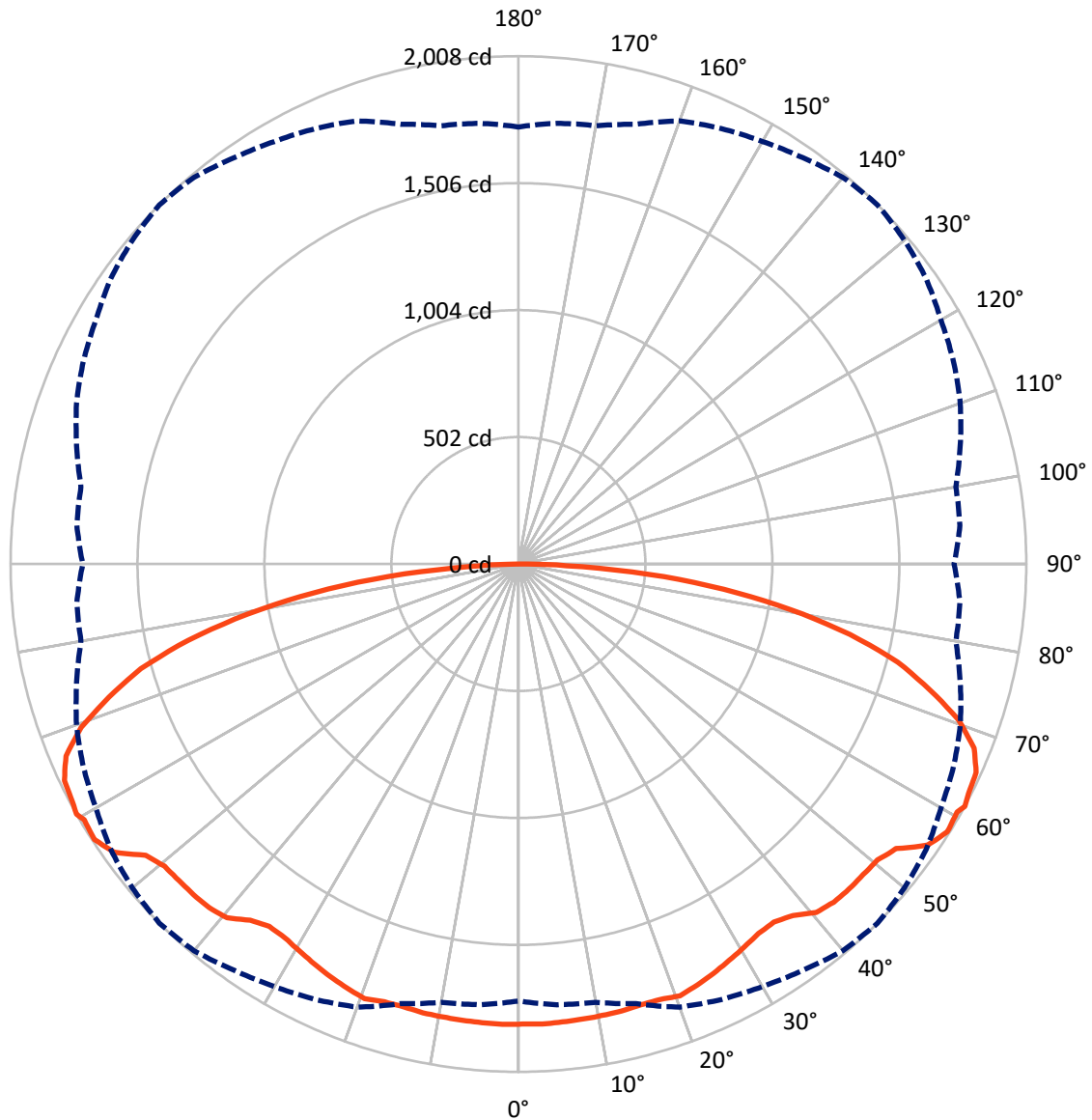
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 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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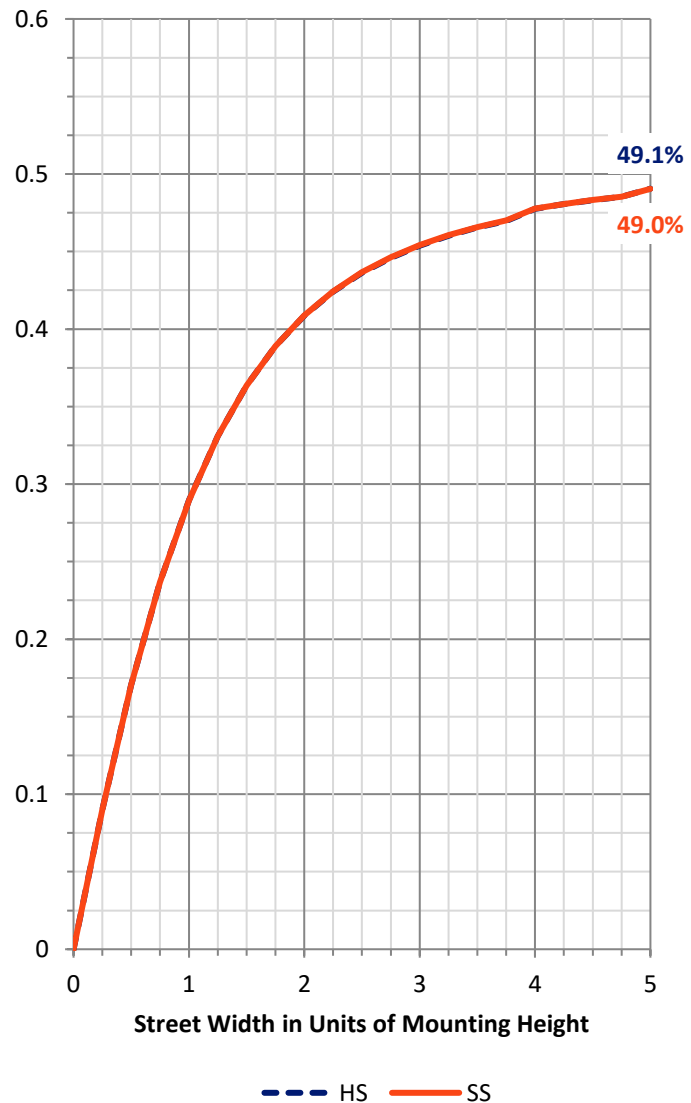
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4694.7	0.0	4694.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4694.7	0.0	4694.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	9389.5	0.0	9389.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	1.8
10°-20°	513.1	5.5
20°-30°	825.6	8.8
30°-40°	1093.6	11.6
40°-50°	1381.1	14.7
50°-60°	1654.8	17.6
60°-70°	1809.4	19.3
70°-80°	1448.4	15.4
80°-90°	490.0	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°	9389.5	100.0
0°-180°	9389.5	100.0



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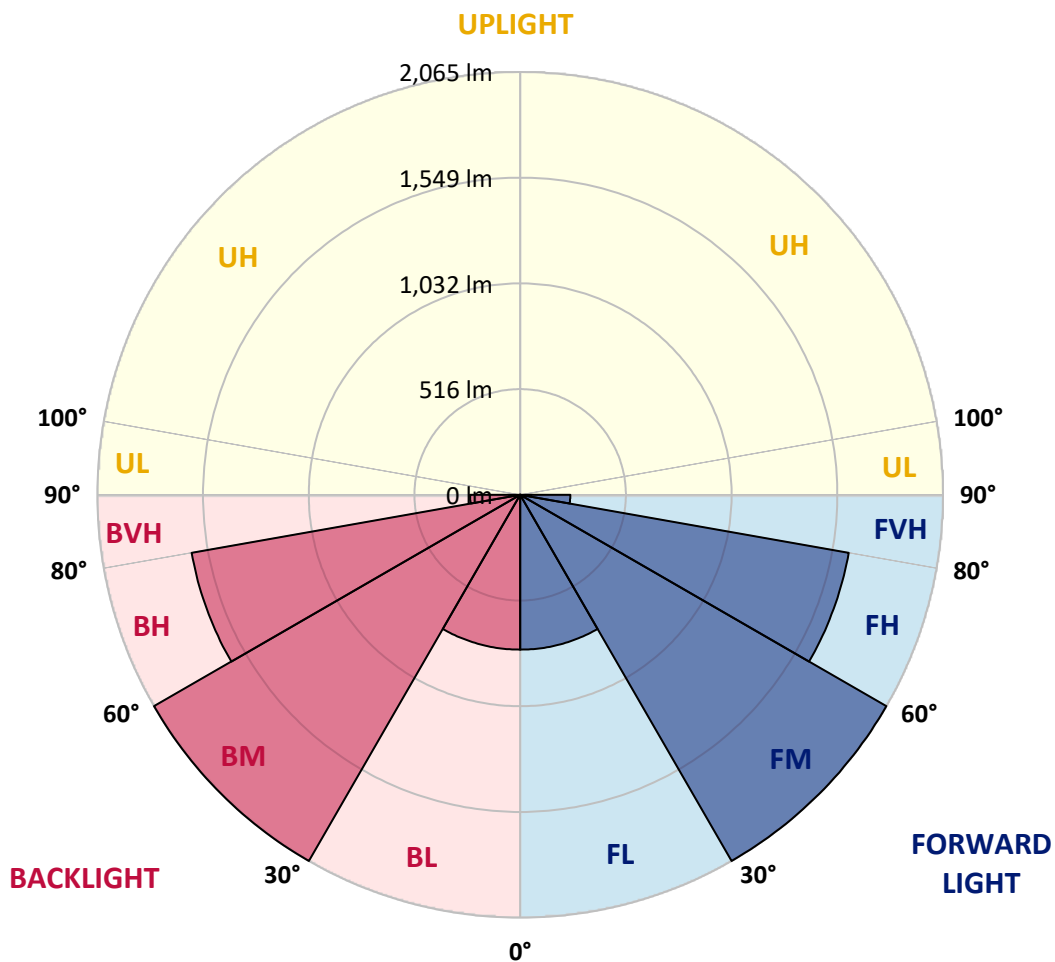
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	756.1	8.1			
FM	(30°-60°)	2064.7	22.0			
FH	(60°-80°)	1628.9	17.3			G1/1800
FVH	(80°-90°)	245.0	2.6			G3/500
BL	(0°-30°)	756.1	8.1	B2/1000		
BM	(30°-60°)	2064.7	22.0	B2/2500		
BH	(60°-80°)	1628.9	17.3	B3/2500		G1/1800
BVH	(80°-90°)	245.0	2.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2
2.5°	1821.0	1819.2	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0
5°	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2
7.5°	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1819.2	1817.4	1819.2
10°	1814.0	1814.0	1814.0	1814.0	1815.6	1815.6	1815.6	1815.6	1815.6	1815.6	1815.6
12.5°	1810.4	1810.4	1810.4	1810.4	1812.2	1812.2	1812.2	1812.2	1814.0	1814.0	1812.2
15°	1806.8	1805.2	1805.2	1806.8	1806.8	1808.6	1808.6	1808.6	1810.4	1808.6	1808.6
17.5°	1803.4	1801.6	1803.4	1805.2	1805.2	1806.8	1808.6	1808.6	1810.4	1810.4	1810.4
20°	1808.6	1806.8	1808.6	1810.4	1812.2	1815.6	1817.4	1819.2	1821.0	1822.6	1822.6
22.5°	1798.2	1796.5	1798.2	1798.2	1799.9	1801.6	1805.2	1806.8	1808.6	1808.6	1808.6
25°	1782.5	1782.5	1784.1	1784.1	1785.9	1787.7	1789.5	1791.1	1791.1	1792.9	1791.1
27.5°	1765.0	1765.0	1766.8	1766.8	1770.2	1770.2	1771.9	1773.7	1775.3	1775.3	1775.3
30°	1743.9	1743.9	1745.6	1747.4	1751.0	1752.6	1754.4	1756.2	1758.0	1758.0	1758.0
32.5°	1724.7	1722.9	1724.7	1728.1	1733.5	1736.9	1740.5	1742.2	1742.2	1742.2	1743.9
35°	1709.0	1710.8	1714.2	1717.7	1724.7	1728.1	1731.7	1736.9	1738.7	1738.7	1738.7
37.5°	1712.4	1714.2	1719.5	1726.5	1735.3	1745.6	1752.6	1759.6	1765.0	1763.2	1761.4
40°	1735.3	1738.7	1747.4	1758.0	1771.9	1785.9	1796.5	1805.2	1810.4	1812.2	1810.4
42.5°	1738.7	1742.2	1749.2	1765.0	1780.7	1796.5	1810.4	1819.2	1826.2	1827.9	1826.2
45°	1736.9	1736.9	1747.4	1765.0	1780.7	1796.5	1814.0	1826.2	1833.1	1833.1	1833.1
47.5°	1724.7	1729.9	1736.9	1754.4	1775.3	1791.1	1808.6	1821.0	1829.6	1834.9	1829.6
50°	1724.7	1724.7	1736.9	1749.2	1768.4	1796.5	1821.0	1833.1	1841.9	1840.1	1841.9
52.5°	1721.1	1731.7	1738.7	1756.2	1791.1	1819.2	1838.3	1855.9	1868.2	1869.8	1866.4
55°	1752.6	1754.4	1770.2	1803.4	1836.7	1868.2	1903.1	1929.4	1950.3	1962.7	1945.1
57.5°	1777.1	1768.4	1799.9	1827.9	1866.4	1913.6	1966.1	1987.0	2002.7	1999.3	2004.5
60°	1743.9	1756.2	1778.9	1808.6	1869.8	1917.0	1945.1	1967.9	1987.0	1992.4	1985.4
61°	1728.1	1749.2	1759.6	1799.9	1864.6	1899.7	1929.4	1960.9	1995.8	2008.1	1992.4
62.5°	1702.0	1735.3	1731.7	1796.5	1836.7	1876.8	1932.8	1969.6	1994.2	1997.6	1994.2
65°	1703.8	1698.4	1738.7	1785.9	1826.2	1897.9	1945.1	1967.9	1981.8	1988.8	1985.4
67.5°	1647.8	1630.2	1679.3	1712.4	1780.7	1836.7	1882.2	1915.4	1936.4	1943.3	1934.6
70°	1518.2	1530.6	1565.5	1616.3	1672.3	1740.5	1782.5	1826.2	1843.7	1845.3	1845.3
72.5°	1394.1	1401.1	1436.1	1483.4	1547.9	1607.5	1649.4	1684.5	1700.2	1702.0	1705.4
75°	1229.7	1236.6	1276.9	1320.5	1385.3	1436.1	1465.8	1507.9	1530.6	1549.7	1534.0
77.5°	1038.9	1051.3	1082.8	1130.0	1189.4	1217.5	1269.9	1318.9	1334.7	1339.9	1334.7
80°	823.9	839.6	867.5	930.5	956.8	1002.3	1053.1	1074.0	1088.0	1091.5	1093.2
82.5°	592.9	605.3	635.0	678.6	708.5	745.2	780.1	806.4	822.1	818.7	816.9
85°	349.8	353.4	384.8	414.5	437.3	460.0	488.1	507.2	510.8	517.8	516.0
87.5°	105.0	106.6	120.8	136.5	146.9	157.4	175.0	197.7	202.9	188.9	190.7
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°	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2
2.5°	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0	1819.2	1821.0
5°	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2	1819.2
7.5°	1819.2	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4
10°	1815.6	1815.6	1815.6	1815.6	1814.0	1814.0	1814.0	1814.0
12.5°	1812.2	1812.2	1812.2	1812.2	1810.4	1810.4	1810.4	1810.4
15°	1808.6	1808.6	1808.6	1808.6	1806.8	1806.8	1806.8	1806.8
17.5°	1810.4	1808.6	1806.8	1806.8	1805.2	1803.4	1803.4	1803.4
20°	1821.0	1819.2	1815.6	1812.2	1810.4	1808.6	1808.6	1808.6
22.5°	1806.8	1805.2	1801.6	1799.9	1799.9	1798.2	1796.5	1796.5
25°	1791.1	1787.7	1787.7	1785.9	1785.9	1782.5	1782.5	1780.7
27.5°	1773.7	1771.9	1770.2	1768.4	1768.4	1766.8	1765.0	1763.2
30°	1758.0	1754.4	1751.0	1749.2	1747.4	1745.6	1745.6	1745.6
32.5°	1742.2	1738.7	1736.9	1731.7	1728.1	1726.5	1724.7	1724.7
35°	1736.9	1731.7	1728.1	1722.9	1717.7	1714.2	1712.4	1709.0
37.5°	1758.0	1751.0	1745.6	1736.9	1724.7	1719.5	1714.2	1712.4
40°	1803.4	1796.5	1785.9	1771.9	1758.0	1747.4	1738.7	1735.3
42.5°	1819.2	1810.4	1796.5	1782.5	1765.0	1749.2	1742.2	1738.7
45°	1824.4	1815.6	1796.5	1778.9	1763.2	1749.2	1738.7	1735.3
47.5°	1819.2	1806.8	1789.5	1775.3	1752.6	1735.3	1728.1	1722.9
50°	1831.3	1821.0	1798.2	1766.8	1747.4	1736.9	1724.7	1722.9
52.5°	1855.9	1836.7	1815.6	1792.9	1756.2	1735.3	1728.1	1719.5
55°	1929.4	1903.1	1866.4	1829.6	1806.8	1773.7	1752.6	1752.6
57.5°	1985.4	1964.3	1917.0	1868.2	1826.2	1801.6	1770.2	1771.9
60°	1969.6	1941.6	1918.8	1869.8	1810.4	1777.1	1765.0	1742.2
61°	1967.9	1929.4	1897.9	1859.4	1808.6	1756.2	1752.6	1722.9
62.5°	1971.3	1936.4	1876.8	1836.7	1798.2	1729.9	1728.1	1700.2
65°	1967.9	1934.6	1904.9	1829.6	1777.1	1749.2	1689.6	1712.4
67.5°	1913.6	1883.9	1829.6	1787.7	1707.2	1672.3	1639.0	1639.0
70°	1827.9	1784.1	1731.7	1679.3	1625.1	1565.5	1535.8	1518.2
72.5°	1684.5	1647.8	1605.7	1549.7	1483.4	1429.1	1401.1	1388.9
75°	1504.3	1464.0	1427.4	1385.3	1315.4	1269.9	1240.2	1231.5
77.5°	1315.4	1280.5	1215.7	1175.5	1128.2	1075.8	1049.5	1038.9
80°	1074.0	1054.7	1009.2	944.5	921.8	857.2	839.6	823.9
82.5°	806.4	785.4	743.4	697.9	670.0	633.2	601.7	598.3
85°	507.2	493.3	467.0	433.9	398.8	377.9	349.8	356.8
87.5°	188.9	180.2	164.4	143.5	127.7	113.6	99.7	105.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)