

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: P197698

Luminaire Tested: **TT-C6-LED-E1-MQ-CG-MS/DIM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197698
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-C6-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: 10654.1 lumens
Efficiency: N/A
Efficacy: 98.6 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): 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

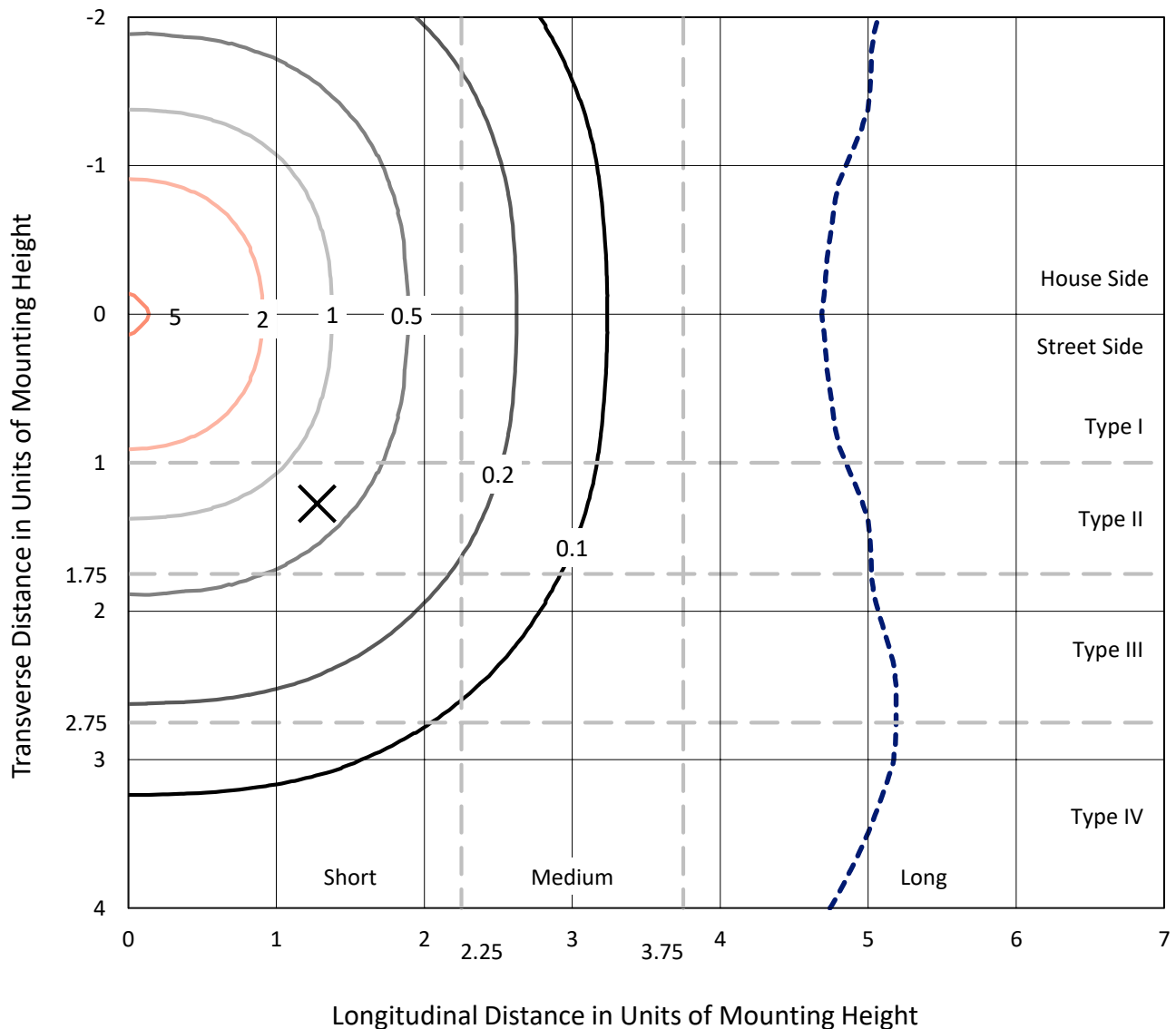


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

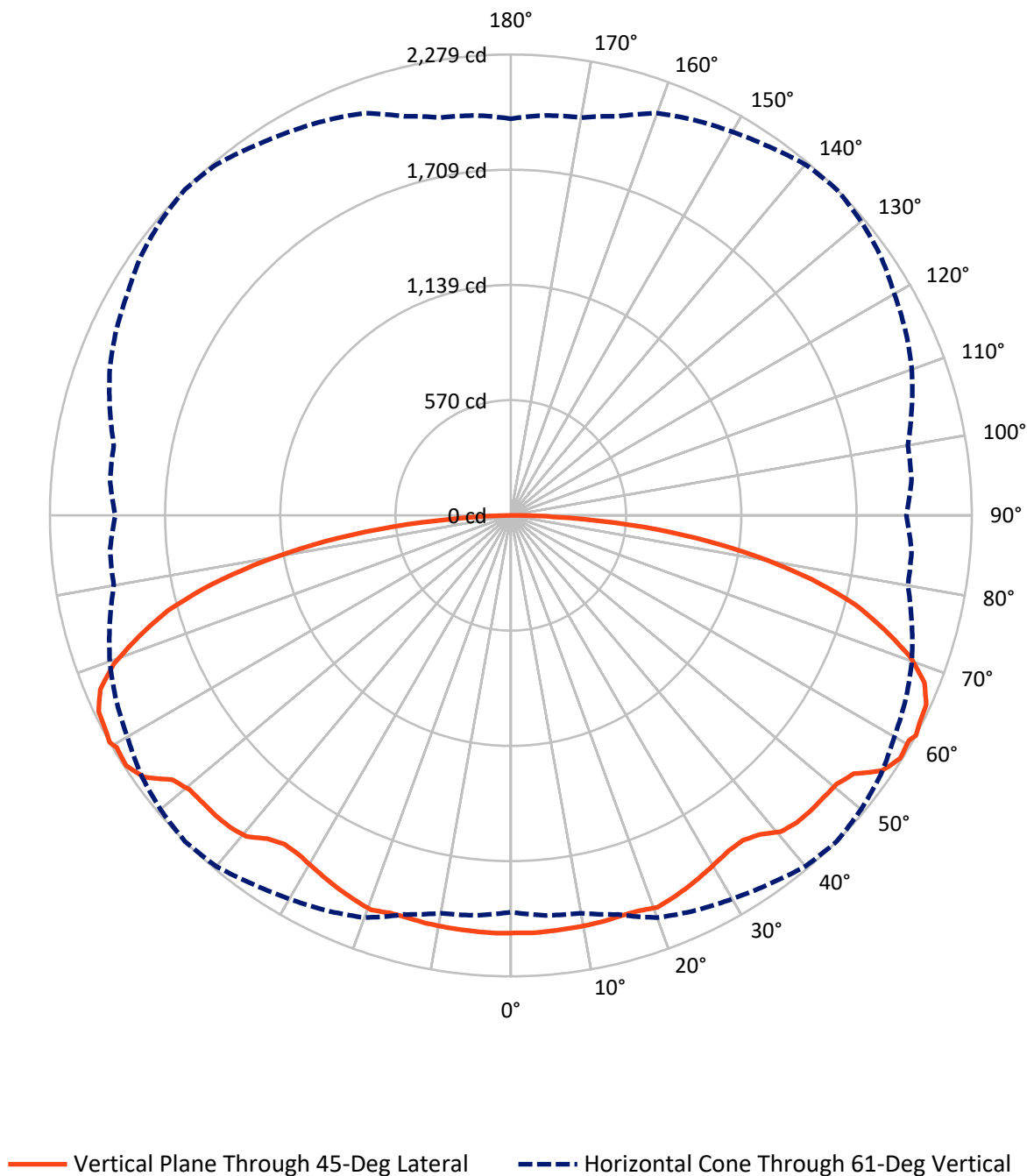


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5327.1	0.0	5327.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5327.1	0.0	5327.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	10654.1	0.0	10654.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.9	1.8
10°-20°	582.2	5.5
20°-30°	936.8	8.8
30°-40°	1240.9	11.6
40°-50°	1567.1	14.7
50°-60°	1877.7	17.6
60°-70°	2053.1	19.3
70°-80°	1643.5	15.4
80°-90°	556.1	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°	10654.1	100.0
0°-180°	10654.1	100.0

Coefficient of Utilization



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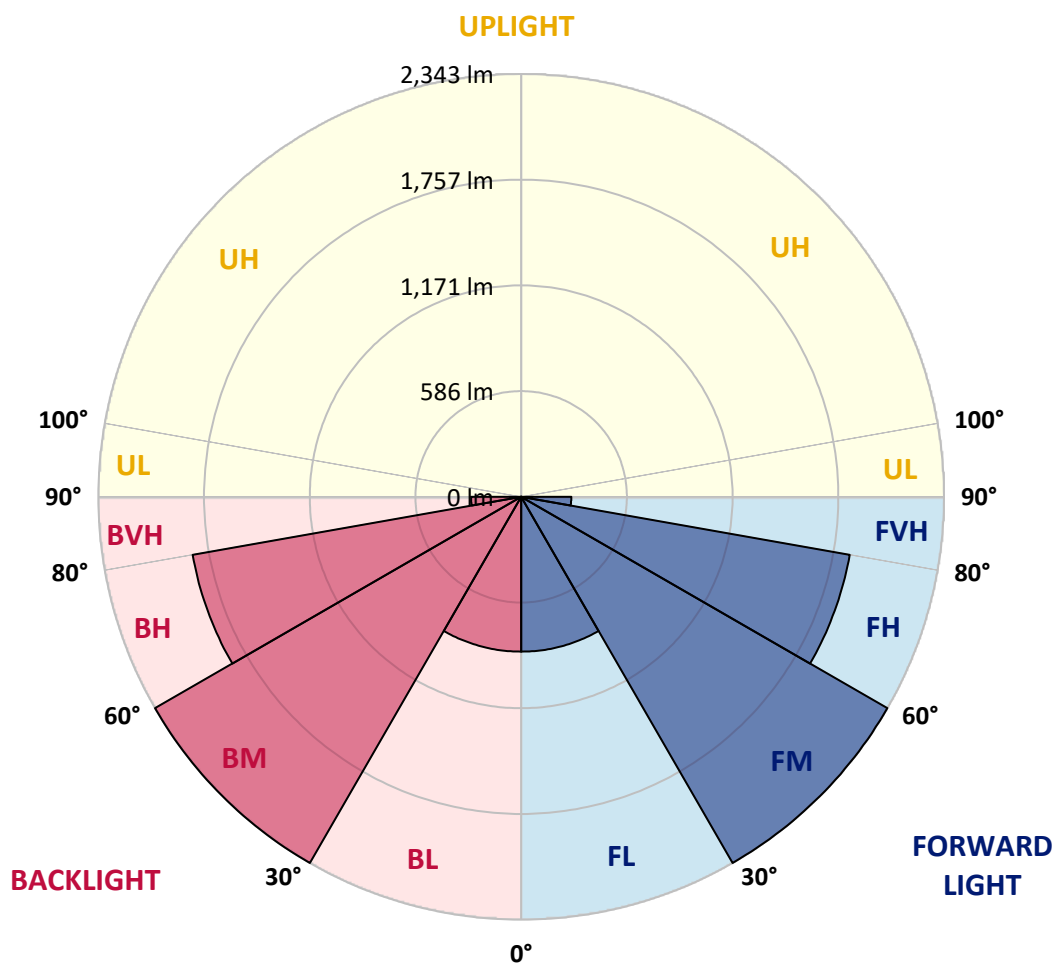
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	857.9	8.1			
FM	(30°-60°)	2342.8	22.0			
FH	(60°-80°)	1848.3	17.3			G2/5000
FVH	(80°-90°)	278.0	2.6			G3/500
BL	(0°-30°)	857.9	8.1	B2/1000		
BM	(30°-60°)	2342.8	22.0	B2/2500		
BH	(60°-80°)	1848.3	17.3	B3/2500		G2/5000
BVH	(80°-90°)	278.0	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°	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1
2.5°	2066.2	2064.1	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2
5°	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1
7.5°	2062.1	2062.1	2062.1	2062.1	2062.1	2062.1	2062.1	2062.1	2064.1	2062.1	2064.1
10°	2058.2	2058.2	2058.2	2058.2	2060.3	2060.3	2060.3	2060.3	2060.3	2060.3	2060.3
12.5°	2054.3	2054.3	2054.3	2054.3	2056.1	2056.1	2056.1	2056.1	2058.2	2058.2	2056.1
15°	2050.2	2048.4	2048.4	2050.2	2050.2	2052.3	2052.3	2052.3	2054.3	2052.3	2052.3
17.5°	2046.3	2044.2	2046.3	2048.4	2048.4	2050.2	2052.3	2052.3	2054.3	2054.3	2054.3
20°	2052.3	2050.2	2052.3	2054.3	2056.1	2060.3	2062.1	2064.1	2066.2	2068.3	2068.3
22.5°	2040.4	2038.3	2040.4	2040.4	2042.4	2044.2	2048.4	2050.2	2052.3	2052.3	2052.3
25°	2022.5	2022.5	2024.6	2024.6	2026.4	2028.5	2030.5	2032.4	2032.4	2034.4	2032.4
27.5°	2002.6	2002.6	2004.7	2004.7	2008.6	2008.6	2010.6	2012.7	2014.5	2014.5	2014.5
30°	1978.8	1978.8	1980.9	1982.7	1986.8	1988.7	1990.7	1992.8	1994.6	1994.6	1994.6
32.5°	1957.1	1955.0	1957.1	1961.0	1966.9	1970.8	1974.9	1976.8	1976.8	1976.8	1978.8
35°	1939.0	1941.1	1945.0	1949.1	1957.1	1961.0	1964.9	1970.8	1972.9	1972.9	1972.9
37.5°	1943.2	1945.0	1951.2	1958.9	1969.0	1980.9	1988.7	1996.7	2002.6	2000.6	1998.7
40°	1969.0	1972.9	1982.7	1994.6	2010.6	2026.4	2038.3	2048.4	2054.3	2056.1	2054.3
42.5°	1972.9	1976.8	1984.8	2002.6	2020.5	2038.3	2054.3	2064.1	2072.2	2074.2	2072.2
45°	1970.8	1970.8	1982.7	2002.6	2020.5	2038.3	2058.2	2072.2	2080.2	2080.2	2080.2
47.5°	1957.1	1963.1	1970.8	1990.7	2014.5	2032.4	2052.3	2066.2	2076.0	2082.0	2076.0
50°	1957.1	1957.1	1970.8	1984.8	2006.5	2038.3	2066.2	2080.2	2090.0	2087.9	2090.0
52.5°	1953.0	1964.9	1972.9	1992.8	2032.4	2064.1	2086.1	2105.8	2119.7	2121.8	2117.7
55°	1988.7	1990.7	2008.6	2046.3	2084.0	2119.7	2159.5	2189.3	2213.0	2227.0	2207.1
57.5°	2016.6	2006.5	2042.4	2074.2	2117.7	2171.4	2230.9	2254.7	2272.5	2268.6	2274.6
60°	1978.8	1992.8	2018.6	2052.3	2121.8	2175.3	2207.1	2232.9	2254.7	2260.6	2252.8
61°	1961.0	1984.8	1996.7	2042.4	2115.8	2155.4	2189.3	2224.9	2264.7	2278.5	2260.6
62.5°	1931.3	1969.0	1964.9	2038.3	2084.0	2129.8	2193.1	2234.8	2262.7	2266.6	2262.7
65°	1933.1	1927.1	1972.9	2026.4	2072.2	2153.6	2207.1	2232.9	2248.7	2256.7	2252.8
67.5°	1869.7	1849.8	1905.4	1943.2	2020.5	2084.0	2135.7	2173.2	2197.3	2205.0	2195.2
70°	1722.9	1736.6	1776.4	1834.1	1897.4	1974.9	2022.5	2072.2	2092.0	2093.9	2093.9
72.5°	1581.8	1589.8	1629.6	1683.1	1756.5	1824.0	1871.6	1911.4	1929.2	1931.3	1935.2
75°	1395.4	1403.2	1448.9	1498.5	1572.0	1629.6	1663.2	1710.8	1736.6	1758.6	1740.7
77.5°	1179.0	1192.7	1228.7	1282.2	1349.6	1381.4	1440.9	1496.5	1514.3	1520.3	1514.3
80°	934.8	952.6	984.4	1056.0	1085.7	1137.4	1194.8	1218.6	1234.6	1238.5	1240.5
82.5°	672.9	686.8	720.4	770.1	803.9	845.6	885.1	915.1	932.9	928.8	927.0
85°	397.0	400.9	436.6	470.5	496.3	521.9	553.7	575.7	579.6	587.6	585.5
87.5°	119.2	121.0	137.0	154.8	166.7	178.6	198.5	224.4	230.3	214.3	216.4
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°	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1
2.5°	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2	2064.1	2066.2
5°	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1	2064.1
7.5°	2064.1	2062.1	2062.1	2062.1	2062.1	2062.1	2062.1	2062.1
10°	2060.3	2060.3	2060.3	2060.3	2058.2	2058.2	2058.2	2058.2
12.5°	2056.1	2056.1	2056.1	2056.1	2054.3	2054.3	2054.3	2054.3
15°	2052.3	2052.3	2052.3	2052.3	2050.2	2050.2	2050.2	2050.2
17.5°	2054.3	2052.3	2050.2	2050.2	2048.4	2046.3	2046.3	2046.3
20°	2066.2	2064.1	2060.3	2056.1	2054.3	2052.3	2052.3	2052.3
22.5°	2050.2	2048.4	2044.2	2042.4	2042.4	2040.4	2038.3	2038.3
25°	2032.4	2028.5	2028.5	2026.4	2026.4	2022.5	2022.5	2020.5
27.5°	2012.7	2010.6	2008.6	2006.5	2006.5	2004.7	2002.6	2000.6
30°	1994.6	1990.7	1986.8	1984.8	1982.7	1980.9	1980.9	1980.9
32.5°	1976.8	1972.9	1970.8	1964.9	1961.0	1958.9	1957.1	1957.1
35°	1970.8	1964.9	1961.0	1955.0	1949.1	1945.0	1943.2	1939.0
37.5°	1994.6	1986.8	1980.9	1970.8	1957.1	1951.2	1945.0	1943.2
40°	2046.3	2038.3	2026.4	2010.6	1994.6	1982.7	1972.9	1969.0
42.5°	2064.1	2054.3	2038.3	2022.5	2002.6	1984.8	1976.8	1972.9
45°	2070.1	2060.3	2038.3	2018.6	2000.6	1984.8	1972.9	1969.0
47.5°	2064.1	2050.2	2030.5	2014.5	1988.7	1969.0	1961.0	1955.0
50°	2078.1	2066.2	2040.4	2004.7	1982.7	1970.8	1957.1	1955.0
52.5°	2105.8	2084.0	2060.3	2034.4	1992.8	1969.0	1961.0	1951.2
55°	2189.3	2159.5	2117.7	2076.0	2050.2	2012.7	1988.7	1988.7
57.5°	2252.8	2228.8	2175.3	2119.7	2072.2	2044.2	2008.6	2010.6
60°	2234.8	2203.2	2177.4	2121.8	2054.3	2016.6	2002.6	1976.8
61°	2232.9	2189.3	2153.6	2109.9	2052.3	1992.8	1988.7	1955.0
62.5°	2236.8	2197.3	2129.8	2084.0	2040.4	1963.1	1961.0	1929.2
65°	2232.9	2195.2	2161.3	2076.0	2016.6	1984.8	1917.3	1943.2
67.5°	2171.4	2137.6	2076.0	2028.5	1937.2	1897.4	1859.7	1859.7
70°	2074.2	2024.6	1964.9	1905.4	1843.9	1776.4	1742.6	1722.9
72.5°	1911.4	1869.7	1821.9	1758.6	1683.1	1621.6	1589.8	1575.8
75°	1706.9	1661.4	1619.5	1572.0	1492.6	1440.9	1407.3	1397.2
77.5°	1492.6	1452.8	1379.4	1333.9	1280.1	1220.6	1190.9	1179.0
80°	1218.6	1196.9	1145.2	1071.8	1045.9	972.5	952.6	934.8
82.5°	915.1	891.1	843.5	792.0	760.2	718.4	682.7	678.8
85°	575.7	559.7	529.9	492.2	452.6	428.6	397.0	404.8
87.5°	214.3	204.5	186.6	162.8	144.8	129.0	113.2	119.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)