

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: P197722

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197722
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10897.4 lumens
Efficiency: N/A
Efficacy: 100.9 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): 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

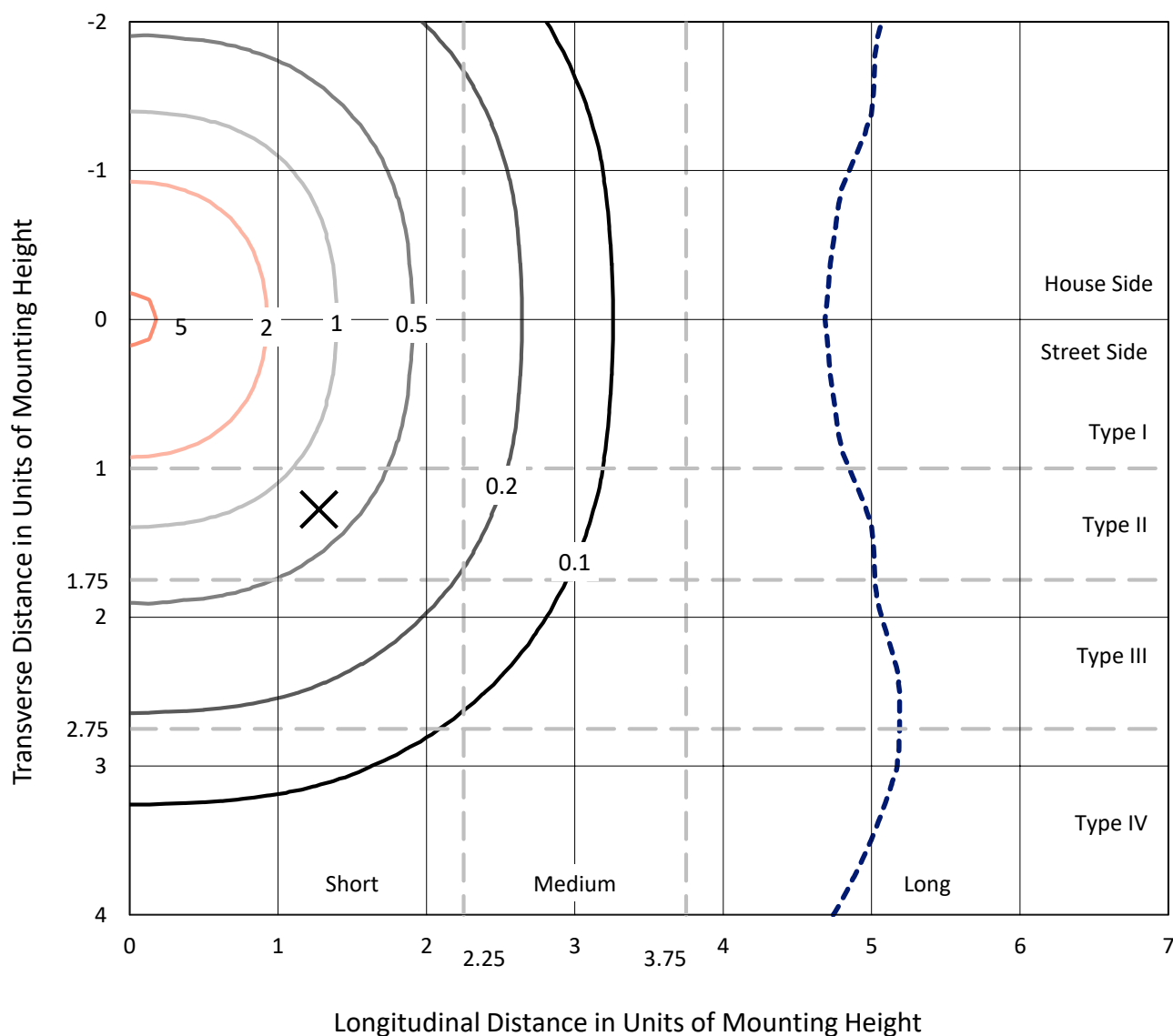


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

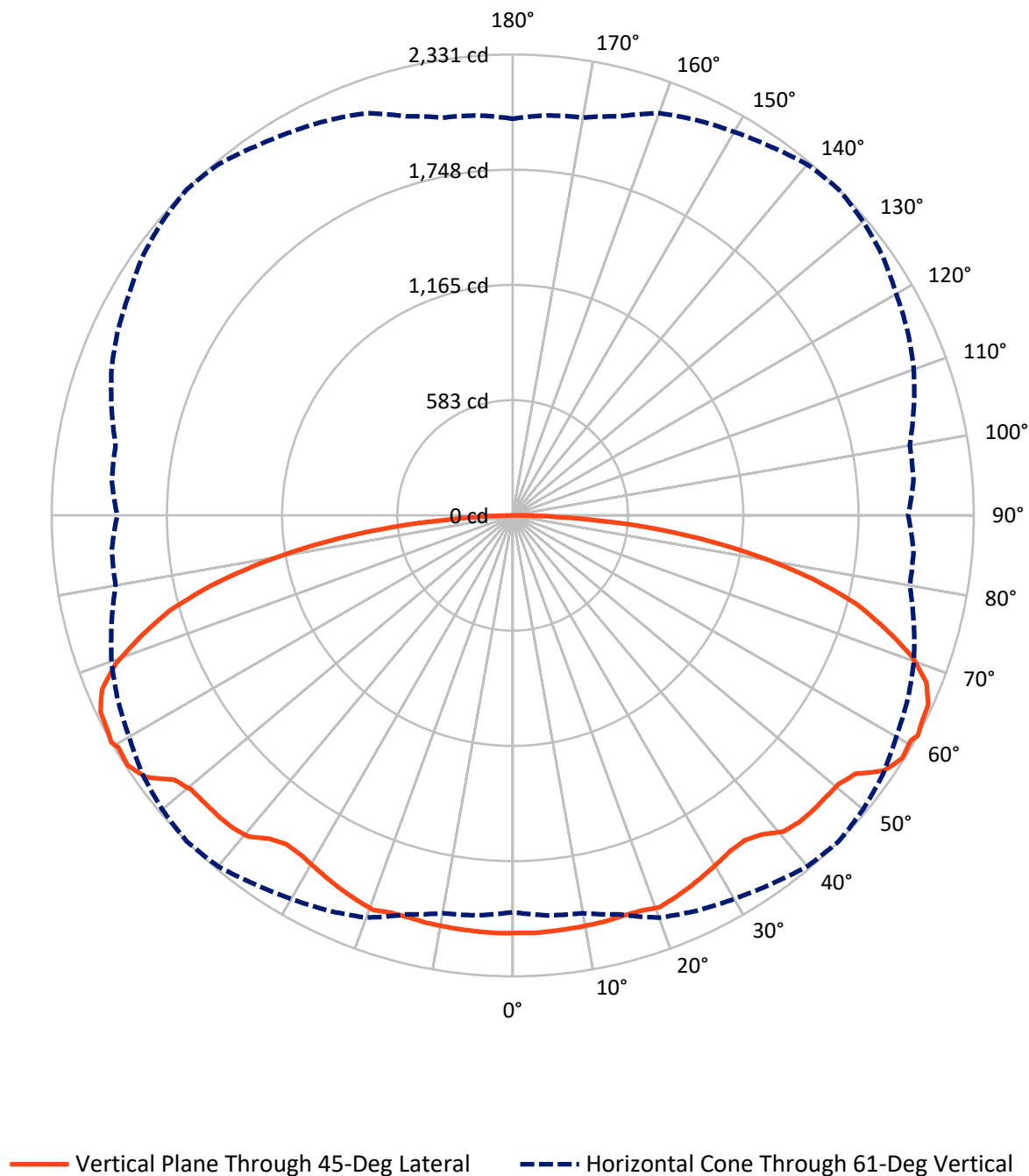


Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5448.7	0.0	5448.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5448.7	0.0	5448.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	10897.4	0.0	10897.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.4	1.8
10°-20°	595.5	5.5
20°-30°	958.1	8.8
30°-40°	1269.3	11.6
40°-50°	1602.9	14.7
50°-60°	1920.5	17.6
60°-70°	2100.0	19.3
70°-80°	1681.0	15.4
80°-90°	568.7	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°	10897.4	100.0
0°-180°	10897.4	100.0

Coefficient of Utilization



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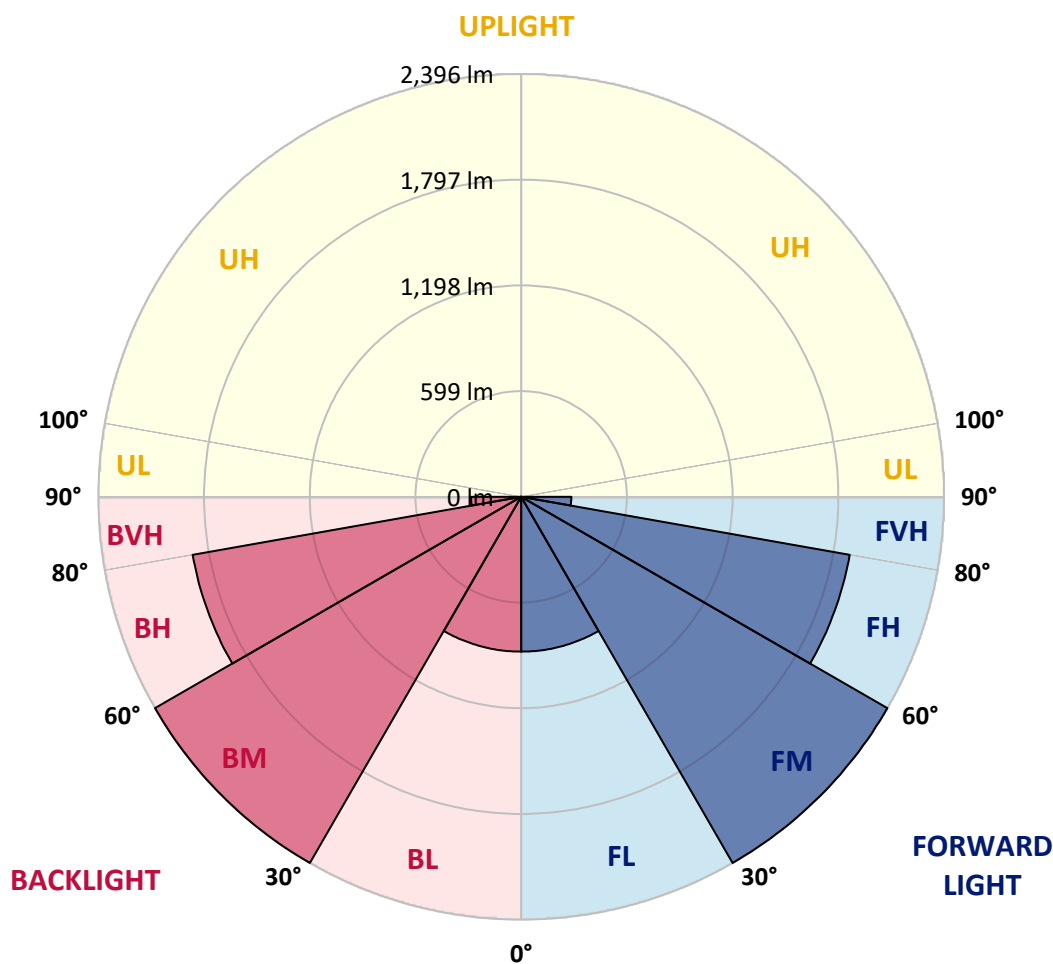
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	877.5	8.1			
FM	(30°-60°)	2396.3	22.0			
FH	(60°-80°)	1890.5	17.3			G2/5000
FVH	(80°-90°)	284.4	2.6			G3/500
BL	(0°-30°)	877.5	8.1	B2/1000		
BM	(30°-60°)	2396.3	22.0	B2/2500		
BH	(60°-80°)	1890.5	17.3	B3/2500		G2/5000
BVH	(80°-90°)	284.4	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°	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3
2.5°	2113.3	2111.3	2113.3	2113.3	2113.3	2113.3	2113.3	2113.3	2113.3	2113.3	2113.3
5°	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3
7.5°	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2	2111.3	2109.2	2111.3
10°	2105.3	2105.3	2105.3	2105.3	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1
12.5°	2101.2	2101.2	2101.2	2101.2	2103.3	2103.3	2103.3	2103.3	2105.3	2105.3	2103.3
15°	2097.1	2095.0	2095.0	2097.1	2097.1	2099.1	2099.1	2099.1	2101.2	2099.1	2099.1
17.5°	2093.0	2090.9	2093.0	2095.0	2095.0	2097.1	2099.1	2099.1	2101.2	2101.2	2101.2
20°	2099.1	2097.1	2099.1	2101.2	2103.3	2107.1	2109.2	2111.3	2113.3	2115.4	2115.4
22.5°	2087.0	2085.0	2087.0	2087.0	2089.1	2090.9	2095.0	2097.1	2099.1	2099.1	2099.1
25°	2068.7	2068.7	2070.8	2070.8	2072.8	2074.7	2076.7	2078.8	2078.8	2080.8	2078.8
27.5°	2048.4	2048.4	2050.4	2050.4	2054.5	2054.5	2056.6	2058.4	2060.5	2060.5	2060.5
30°	2024.1	2024.1	2025.9	2028.0	2032.1	2034.2	2036.2	2038.3	2040.4	2040.4	2040.4
32.5°	2001.7	1999.6	2001.7	2005.8	2011.8	2015.9	2020.0	2022.1	2022.1	2022.1	2024.1
35°	1983.4	1985.5	1989.6	1993.5	2001.7	2005.8	2009.7	2015.9	2017.9	2017.9	2017.9
37.5°	1987.5	1989.6	1995.5	2003.8	2013.8	2025.9	2034.2	2042.2	2048.4	2046.3	2044.2
40°	2013.8	2017.9	2028.0	2040.4	2056.6	2072.8	2085.0	2095.0	2101.2	2103.3	2101.2
42.5°	2017.9	2022.1	2030.1	2048.4	2066.7	2085.0	2101.2	2111.3	2119.5	2121.5	2119.5
45°	2015.9	2015.9	2028.0	2048.4	2066.7	2085.0	2105.3	2119.5	2127.5	2127.5	2127.5
47.5°	2001.7	2007.9	2015.9	2036.2	2060.5	2078.8	2099.1	2113.3	2123.4	2129.6	2123.4
50°	2001.7	2001.7	2015.9	2030.1	2052.5	2085.0	2113.3	2127.5	2137.8	2135.7	2137.8
52.5°	1997.6	2009.7	2017.9	2038.3	2078.8	2111.3	2133.7	2154.0	2168.2	2170.3	2166.1
55°	2034.2	2036.2	2054.5	2093.0	2131.6	2168.2	2208.7	2239.1	2263.6	2277.8	2257.4
57.5°	2062.5	2052.5	2089.1	2121.5	2166.1	2221.0	2281.9	2306.1	2324.4	2320.3	2326.5
60°	2024.1	2038.3	2064.6	2099.1	2170.3	2224.9	2257.4	2283.9	2306.1	2312.3	2304.1
61°	2005.8	2030.1	2042.2	2089.1	2164.1	2204.8	2239.1	2275.7	2316.4	2330.6	2312.3
62.5°	1975.4	2013.8	2009.7	2085.0	2131.6	2178.3	2243.2	2286.0	2314.4	2318.5	2314.4
65°	1977.2	1971.3	2017.9	2072.8	2119.5	2202.7	2257.4	2283.9	2300.2	2308.2	2304.1
67.5°	1912.3	1892.1	1948.9	1987.5	2066.7	2131.6	2184.4	2222.9	2247.3	2255.3	2245.3
70°	1762.2	1776.4	1816.9	1875.9	1940.9	2020.0	2068.7	2119.5	2139.6	2141.7	2141.7
72.5°	1617.9	1626.2	1666.6	1721.5	1796.5	1865.6	1914.3	1955.0	1973.3	1975.4	1979.3
75°	1427.2	1435.2	1482.1	1532.8	1607.9	1666.6	1701.2	1749.9	1776.4	1798.6	1780.3
77.5°	1205.8	1220.2	1256.6	1311.4	1380.5	1413.0	1473.8	1530.8	1549.1	1555.0	1549.1
80°	956.3	974.5	1007.0	1080.0	1110.4	1163.2	1222.0	1246.5	1262.7	1266.8	1268.9
82.5°	688.2	702.4	736.9	787.7	822.2	864.8	905.5	935.9	954.2	950.1	948.0
85°	406.0	410.1	446.7	481.2	507.5	533.8	566.3	588.7	592.8	600.8	598.8
87.5°	121.9	123.7	140.0	158.3	170.6	182.7	203.1	229.4	235.6	219.3	221.4
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°	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3
2.5°	2113.3	2113.3	2113.3	2113.3	2113.3	2113.3	2111.3	2113.3
5°	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3	2111.3
7.5°	2111.3	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2
10°	2107.1	2107.1	2107.1	2107.1	2105.3	2105.3	2105.3	2105.3
12.5°	2103.3	2103.3	2103.3	2103.3	2101.2	2101.2	2101.2	2101.2
15°	2099.1	2099.1	2099.1	2099.1	2097.1	2097.1	2097.1	2097.1
17.5°	2101.2	2099.1	2097.1	2097.1	2095.0	2093.0	2093.0	2093.0
20°	2113.3	2111.3	2107.1	2103.3	2101.2	2099.1	2099.1	2099.1
22.5°	2097.1	2095.0	2090.9	2089.1	2089.1	2087.0	2085.0	2085.0
25°	2078.8	2074.7	2074.7	2072.8	2072.8	2068.7	2068.7	2066.7
27.5°	2058.4	2056.6	2054.5	2052.5	2052.5	2050.4	2048.4	2046.3
30°	2040.4	2036.2	2032.1	2030.1	2028.0	2025.9	2025.9	2025.9
32.5°	2022.1	2017.9	2015.9	2009.7	2005.8	2003.8	2001.7	2001.7
35°	2015.9	2009.7	2005.8	1999.6	1993.5	1989.6	1987.5	1983.4
37.5°	2040.4	2032.1	2025.9	2015.9	2001.7	1995.5	1989.6	1987.5
40°	2093.0	2085.0	2072.8	2056.6	2040.4	2028.0	2017.9	2013.8
42.5°	2111.3	2101.2	2085.0	2068.7	2048.4	2030.1	2022.1	2017.9
45°	2117.4	2107.1	2085.0	2064.6	2046.3	2030.1	2017.9	2013.8
47.5°	2111.3	2097.1	2076.7	2060.5	2034.2	2013.8	2005.8	1999.6
50°	2125.4	2113.3	2087.0	2050.4	2028.0	2015.9	2001.7	1999.6
52.5°	2154.0	2131.6	2107.1	2080.8	2038.3	2013.8	2005.8	1995.5
55°	2239.1	2208.7	2166.1	2123.4	2097.1	2058.4	2034.2	2034.2
57.5°	2304.1	2279.8	2224.9	2168.2	2119.5	2090.9	2054.5	2056.6
60°	2286.0	2253.5	2227.0	2170.3	2101.2	2062.5	2048.4	2022.1
61°	2283.9	2239.1	2202.7	2157.9	2099.1	2038.3	2034.2	1999.6
62.5°	2287.8	2247.3	2178.3	2131.6	2087.0	2007.9	2005.8	1973.3
65°	2283.9	2245.3	2210.7	2123.4	2062.5	2030.1	1961.0	1987.5
67.5°	2221.0	2186.5	2123.4	2074.7	1981.3	1940.9	1902.2	1902.2
70°	2121.5	2070.8	2009.7	1948.9	1886.0	1816.9	1782.4	1762.2
72.5°	1955.0	1912.3	1863.6	1798.6	1721.5	1658.6	1626.2	1612.0
75°	1746.0	1699.1	1656.6	1607.9	1526.7	1473.8	1439.3	1429.2
77.5°	1526.7	1486.0	1410.9	1364.3	1309.4	1248.5	1218.1	1205.8
80°	1246.5	1224.1	1171.5	1096.2	1069.9	994.7	974.5	956.3
82.5°	935.9	911.4	862.7	810.1	777.6	734.9	698.3	694.4
85°	588.7	572.5	542.1	503.4	462.9	438.4	406.0	414.2
87.5°	219.3	209.0	190.7	166.5	148.2	132.0	115.7	121.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)