

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: P197528

Luminaire Tested: **TT-C5-LED-E1-5CQ-PM-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115438)
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-E1-5CQ-PM-LWR-LW-7060
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8483.9 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

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

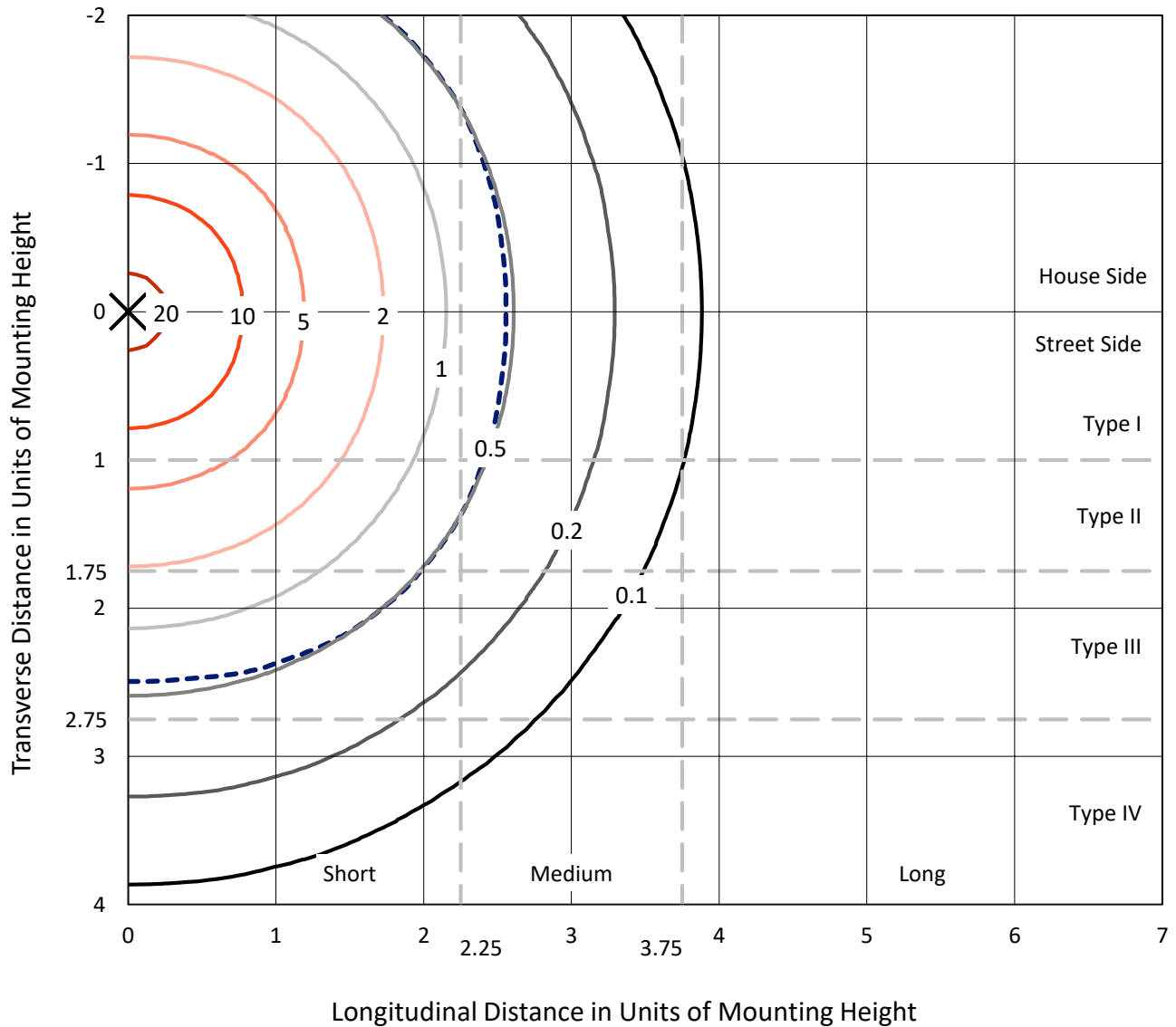


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

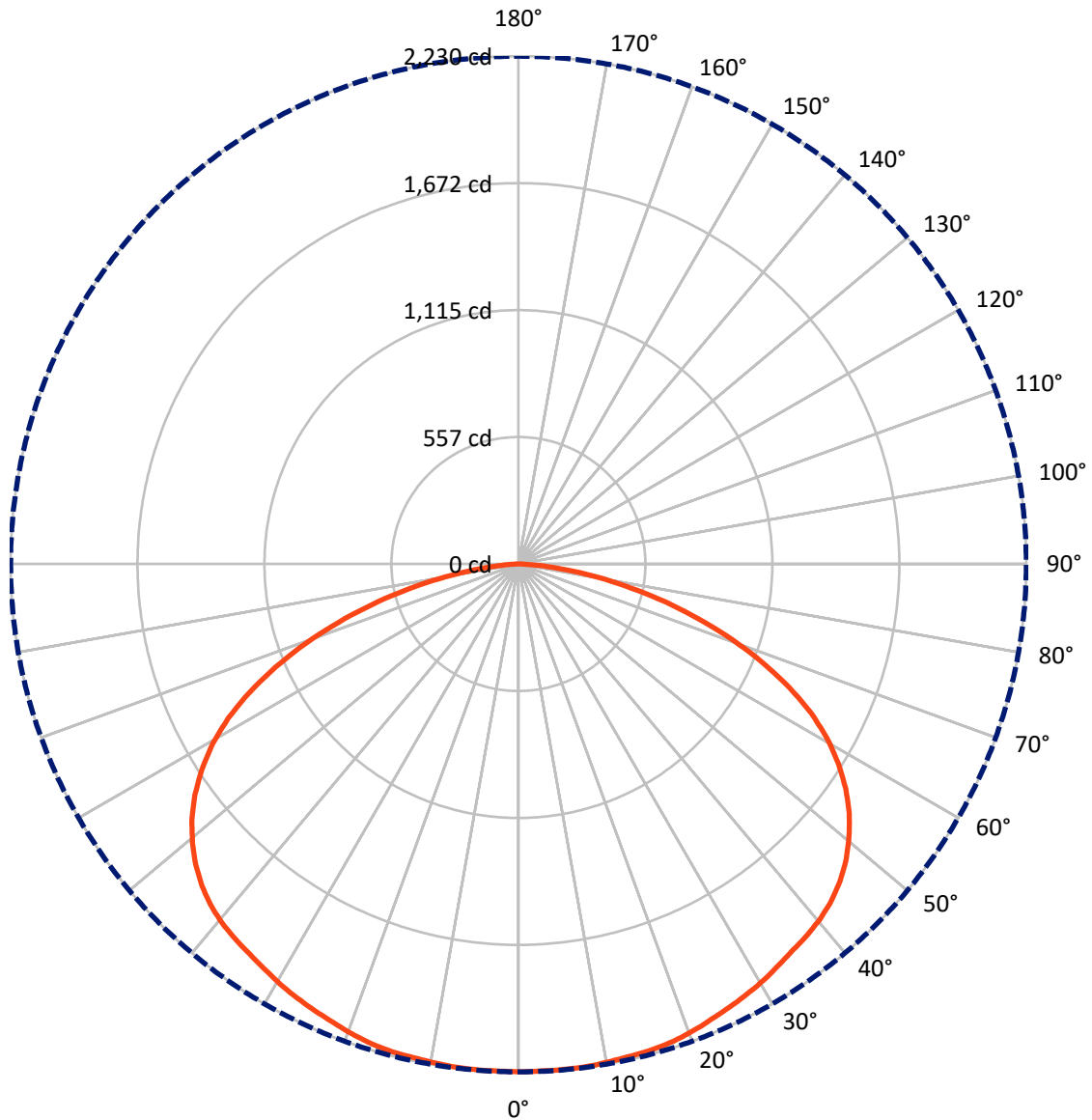


Based on 10 foot mounting height. Maximum calculated value = 22.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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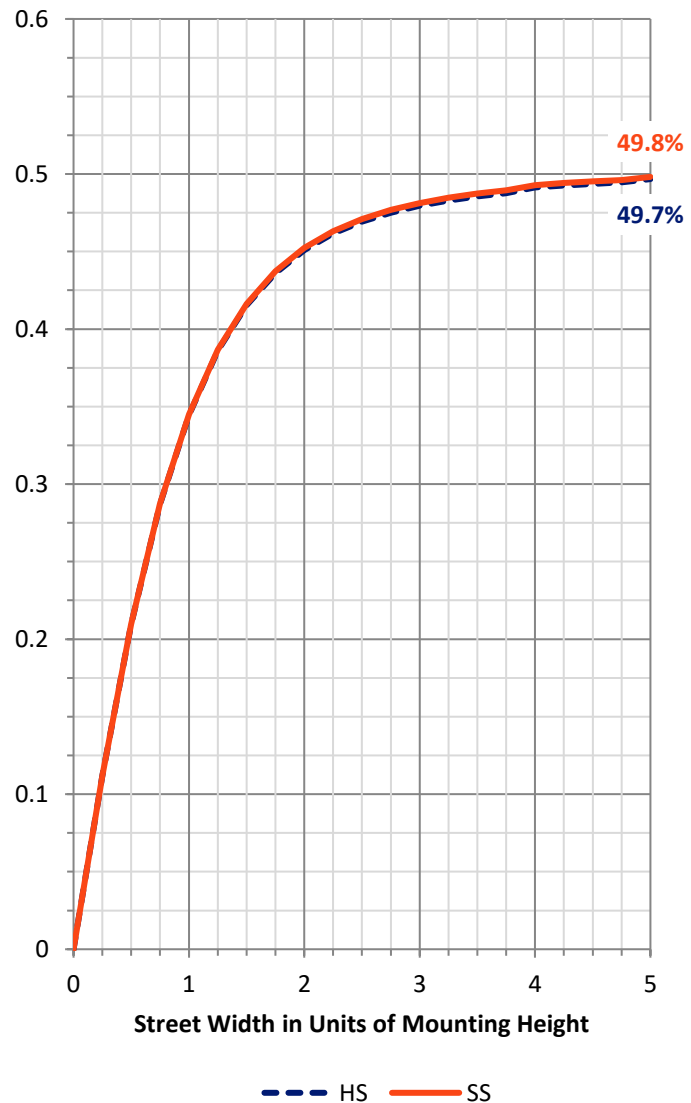
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4241.9	0.0	4241.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4241.9	0.0	4241.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	8483.9	0.0	8483.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.4	2.5
10°-20°	625.7	7.4
20°-30°	996.4	11.7
30°-40°	1306.4	15.4
40°-50°	1540.8	18.2
50°-60°	1595.8	18.8
60°-70°	1334.5	15.7
70°-80°	727.4	8.6
80°-90°	144.4	1.7
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°	8483.9	100.0
0°-180°	8483.9	100.0

Coefficient of Utilization



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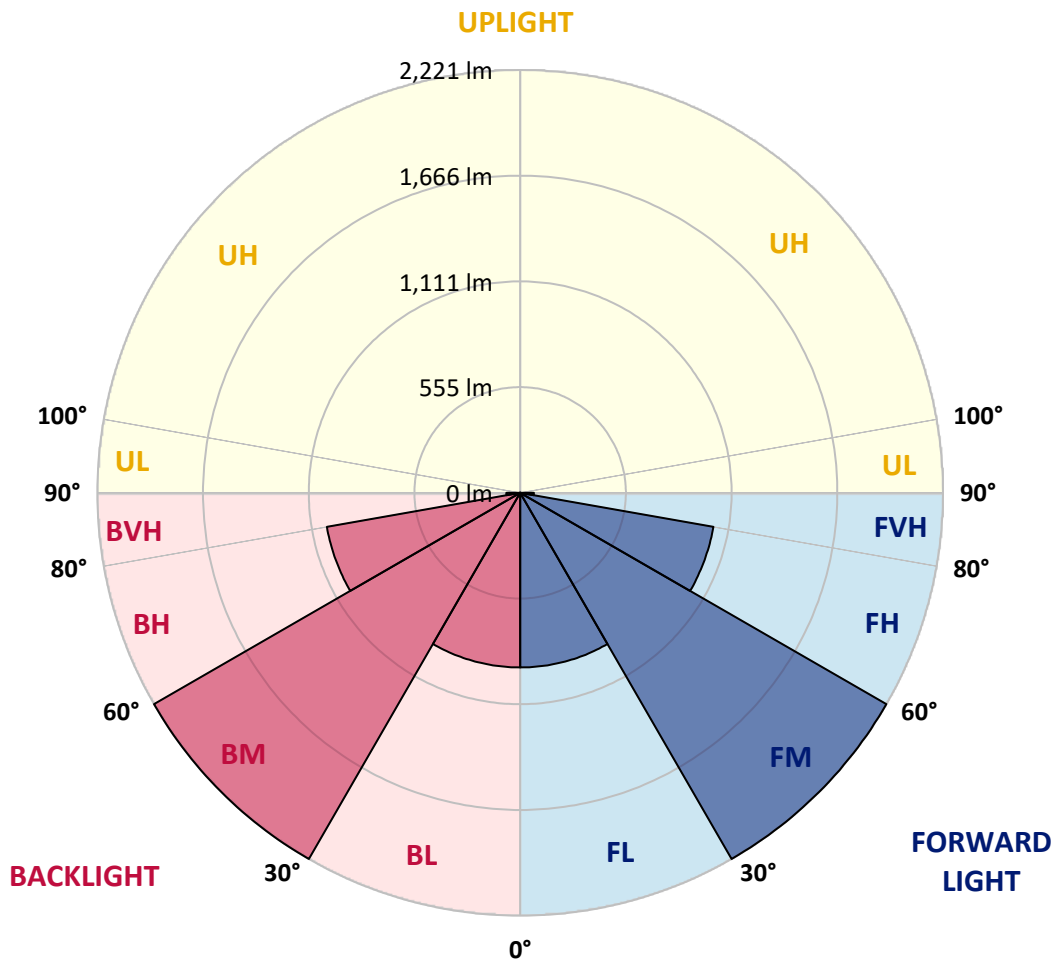
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.3	10.8			
FM (30°-60°)	2221.5	26.2			
FH (60°-80°)	1031.0	12.2			G1/1800
FVH (80°-90°)	72.2	0.9			G1/100
BL (0°-30°)	917.3	10.8	B2/1000		
BM (30°-60°)	2221.5	26.2	B2/2500		
BH (60°-80°)	1031.0	12.2	B3/2500		G1/1800
BVH (80°-90°)	72.2	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2229.6	2229.6	2229.6	2229.6	2229.6	2229.6	2229.6	2229.6	2229.6	2229.6	2229.6
2.5°	2227.8	2229.6	2229.6	2229.6	2229.6	2229.6	2229.6	2229.6	2227.8	2229.6	2229.6
5°	2227.8	2227.8	2227.8	2227.8	2229.6	2227.8	2227.8	2227.8	2227.8	2227.8	2227.8
7.5°	2226.1	2224.2	2224.2	2224.2	2224.2	2224.2	2226.1	2226.1	2226.1	2226.1	2226.1
10°	2220.6	2220.6	2220.6	2220.6	2220.6	2220.6	2220.6	2220.6	2220.6	2220.6	2220.6
12.5°	2215.3	2215.3	2215.3	2215.3	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2215.3
15°	2211.7	2211.7	2211.7	2211.7	2211.7	2211.7	2211.7	2211.7	2211.7	2211.7	2211.7
17.5°	2202.9	2202.9	2202.9	2202.9	2204.6	2204.6	2204.6	2204.6	2204.6	2204.6	2204.6
20°	2188.5	2188.5	2188.5	2188.5	2188.5	2190.3	2192.1	2192.1	2192.1	2192.1	2192.1
22.5°	2170.7	2170.7	2172.5	2172.5	2174.2	2174.2	2176.1	2176.1	2176.1	2176.1	2176.1
25°	2154.6	2154.6	2154.6	2156.4	2156.4	2156.4	2158.2	2159.9	2159.9	2159.9	2158.2
27.5°	2138.6	2138.6	2138.6	2140.3	2140.3	2140.3	2142.1	2142.1	2143.9	2142.1	2142.1
30°	2120.7	2118.9	2118.9	2120.7	2122.5	2122.5	2124.3	2124.3	2124.3	2124.3	2122.5
32.5°	2099.2	2099.2	2101.1	2102.8	2102.8	2104.6	2106.4	2106.4	2106.4	2108.2	2104.6
35°	2079.6	2081.4	2081.4	2083.2	2086.8	2088.6	2090.3	2092.2	2092.2	2092.2	2088.6
37.5°	2063.6	2065.4	2067.1	2070.7	2074.3	2077.9	2081.4	2085.0	2083.2	2083.2	2077.9
40°	2043.9	2045.7	2049.3	2052.8	2060.0	2063.6	2069.0	2072.5	2074.3	2072.5	2067.1
42.5°	2017.2	2018.9	2022.5	2027.9	2036.8	2043.9	2049.3	2054.7	2056.4	2054.7	2049.3
45°	1981.5	1983.2	1986.8	1994.0	2004.7	2011.8	2020.7	2026.1	2029.6	2029.6	2024.3
47.5°	1936.8	1938.6	1944.0	1951.1	1961.8	1970.8	1981.5	1988.6	1992.1	1995.7	1990.4
50°	1881.4	1883.3	1890.4	1899.3	1908.2	1920.8	1933.3	1944.0	1949.3	1951.1	1949.3
52.5°	1819.0	1820.8	1827.9	1836.9	1849.4	1863.7	1878.0	1890.4	1897.6	1901.2	1897.6
55°	1744.0	1747.6	1753.0	1765.5	1779.8	1792.2	1810.1	1824.3	1833.3	1835.1	1833.3
57.5°	1656.6	1661.9	1667.2	1681.5	1695.9	1713.7	1727.9	1742.3	1753.0	1754.7	1754.7
60°	1558.4	1562.0	1567.3	1581.6	1597.6	1610.1	1629.8	1644.0	1653.0	1653.0	1654.8
62.5°	1442.4	1445.9	1454.9	1465.6	1483.4	1496.0	1512.0	1526.2	1535.2	1538.8	1536.9
65°	1306.7	1310.3	1315.6	1329.9	1344.2	1358.5	1374.5	1387.0	1395.9	1397.7	1395.9
67.5°	1156.8	1160.3	1163.9	1181.7	1196.0	1201.3	1221.0	1231.7	1237.1	1238.8	1238.8
70°	997.9	999.7	1005.0	1013.9	1030.0	1035.4	1047.8	1056.8	1060.4	1067.4	1062.1
72.5°	831.9	835.5	847.9	849.7	862.2	869.4	872.9	872.9	881.9	881.9	883.6
75°	667.7	669.4	674.8	676.5	685.4	685.4	683.7	687.3	694.4	694.4	696.2
77.5°	505.2	505.2	514.2	507.0	510.6	503.4	507.0	503.4	508.7	507.0	508.7
80°	353.5	353.5	358.8	351.7	353.5	346.3	348.1	346.3	346.3	348.1	348.1
82.5°	217.8	219.5	223.1	217.8	217.8	212.5	214.2	216.0	216.0	214.2	212.5
85°	107.1	107.1	110.7	108.9	107.1	103.5	105.4	107.1	107.1	105.4	105.4
87.5°	28.5	28.5	30.4	30.4	28.5	26.8	28.5	30.4	30.4	30.4	28.5
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°	2229.6	2229.6	2229.6	2229.6	2229.6	2229.6	2229.6	2229.6
2.5°	2227.8	2227.8	2229.6	2227.8	2229.6	2227.8	2229.6	2229.6
5°	2227.8	2227.8	2227.8	2227.8	2227.8	2227.8	2227.8	2227.8
7.5°	2224.2	2226.1	2224.2	2224.2	2224.2	2226.1	2224.2	2226.1
10°	2220.6	2220.6	2220.6	2220.6	2220.6	2220.6	2220.6	2220.6
12.5°	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3
15°	2211.7	2209.9	2209.9	2209.9	2208.2	2208.2	2208.2	2208.2
17.5°	2204.6	2202.9	2201.0	2201.0	2201.0	2201.0	2199.3	2199.3
20°	2192.1	2190.3	2188.5	2188.5	2186.7	2186.7	2185.0	2185.0
22.5°	2174.2	2174.2	2172.5	2170.7	2170.7	2168.9	2168.9	2167.1
25°	2158.2	2156.4	2154.6	2152.8	2151.0	2151.0	2149.3	2147.5
27.5°	2140.3	2136.7	2135.0	2133.2	2131.4	2129.6	2127.8	2126.0
30°	2120.7	2117.1	2113.5	2111.8	2108.2	2104.6	2102.8	2101.1
32.5°	2101.1	2097.5	2092.2	2086.8	2083.2	2079.6	2076.0	2074.3
35°	2085.0	2077.9	2072.5	2065.4	2060.0	2054.7	2052.8	2051.1
37.5°	2072.5	2065.4	2056.4	2049.3	2043.9	2036.8	2033.2	2029.6
40°	2060.0	2051.1	2040.4	2031.5	2024.3	2015.3	2011.8	2008.3
42.5°	2042.1	2031.5	2020.7	2010.0	1999.3	1990.4	1985.1	1981.5
45°	2017.2	2006.4	1994.0	1979.7	1968.9	1958.3	1952.9	1949.3
47.5°	1983.2	1972.5	1958.3	1945.7	1933.3	1922.5	1915.4	1911.8
50°	1942.2	1931.5	1917.2	1902.9	1890.4	1878.0	1872.6	1867.2
52.5°	1890.4	1881.4	1865.4	1854.7	1840.5	1827.9	1822.6	1819.0
55°	1826.2	1817.3	1801.1	1790.5	1776.2	1765.5	1758.3	1753.0
57.5°	1747.6	1740.5	1722.6	1711.9	1697.6	1687.0	1681.5	1678.0
60°	1651.2	1644.0	1626.3	1615.5	1603.1	1590.5	1586.9	1583.3
62.5°	1531.6	1528.0	1513.7	1501.3	1488.8	1476.2	1472.7	1470.9
65°	1392.3	1388.8	1376.3	1365.6	1354.9	1344.2	1340.6	1337.0
67.5°	1233.5	1231.7	1221.0	1212.1	1204.9	1194.3	1192.4	1188.9
70°	1063.9	1060.4	1051.4	1044.3	1038.9	1030.0	1028.2	1024.6
72.5°	887.2	885.4	880.0	871.1	871.1	858.7	856.8	855.1
75°	692.6	701.6	694.4	690.9	690.9	683.7	683.7	681.9
77.5°	507.0	515.9	521.2	514.2	521.2	514.2	514.2	512.3
80°	346.3	353.5	358.8	353.5	362.4	357.0	357.0	364.1
82.5°	210.6	217.8	221.4	219.5	224.9	223.1	221.4	226.7
85°	103.5	107.1	108.9	108.9	110.7	107.1	110.7	112.4
87.5°	26.8	28.5	30.4	28.5	30.4	30.4	30.4	32.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)