

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: P197527

Luminaire Tested: **TT-C5-LED-E1-5CQ-PM-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197527
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-7050
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8548.4 lumens
Efficiency: N/A
Efficacy: 111.0 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

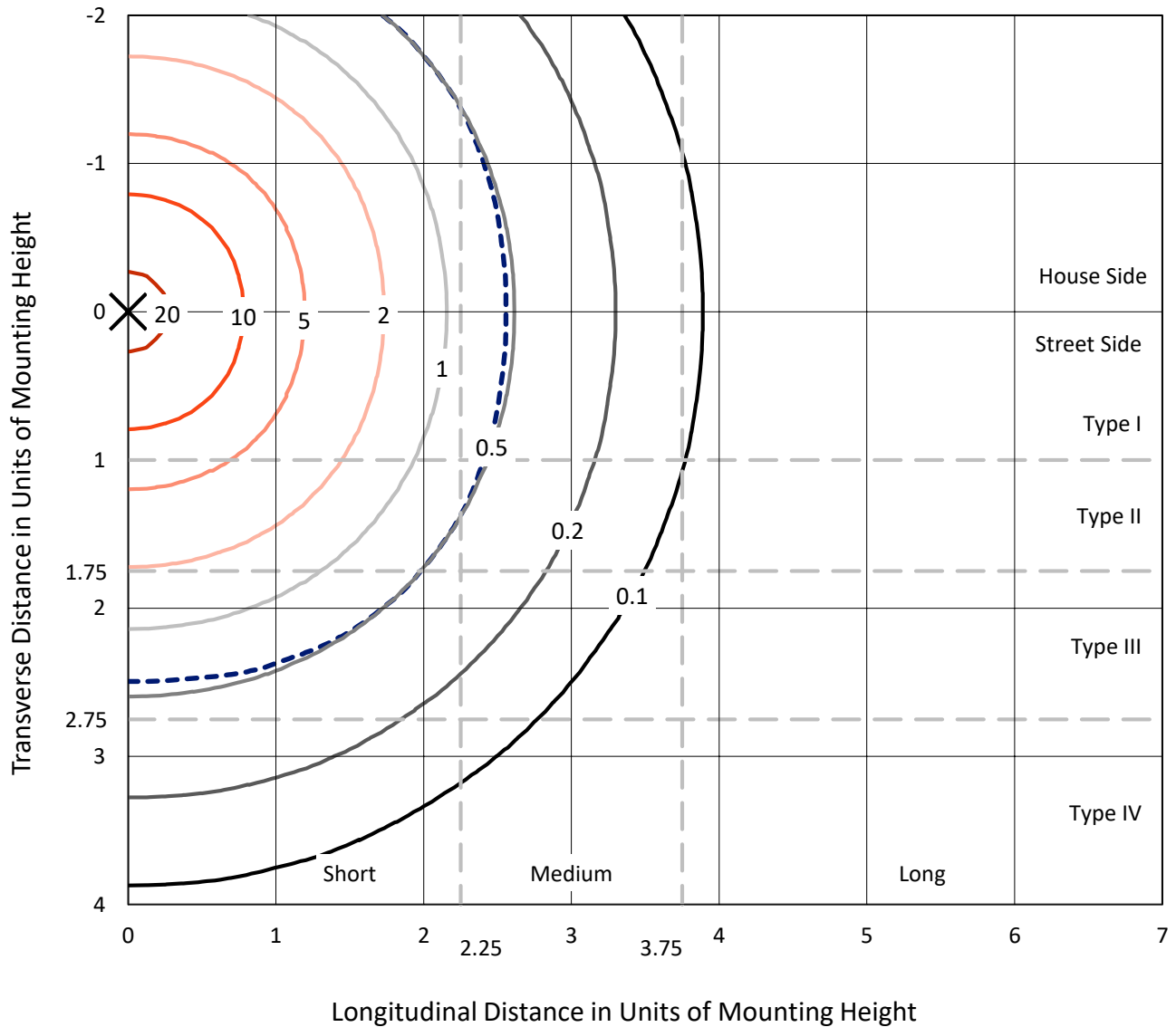


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

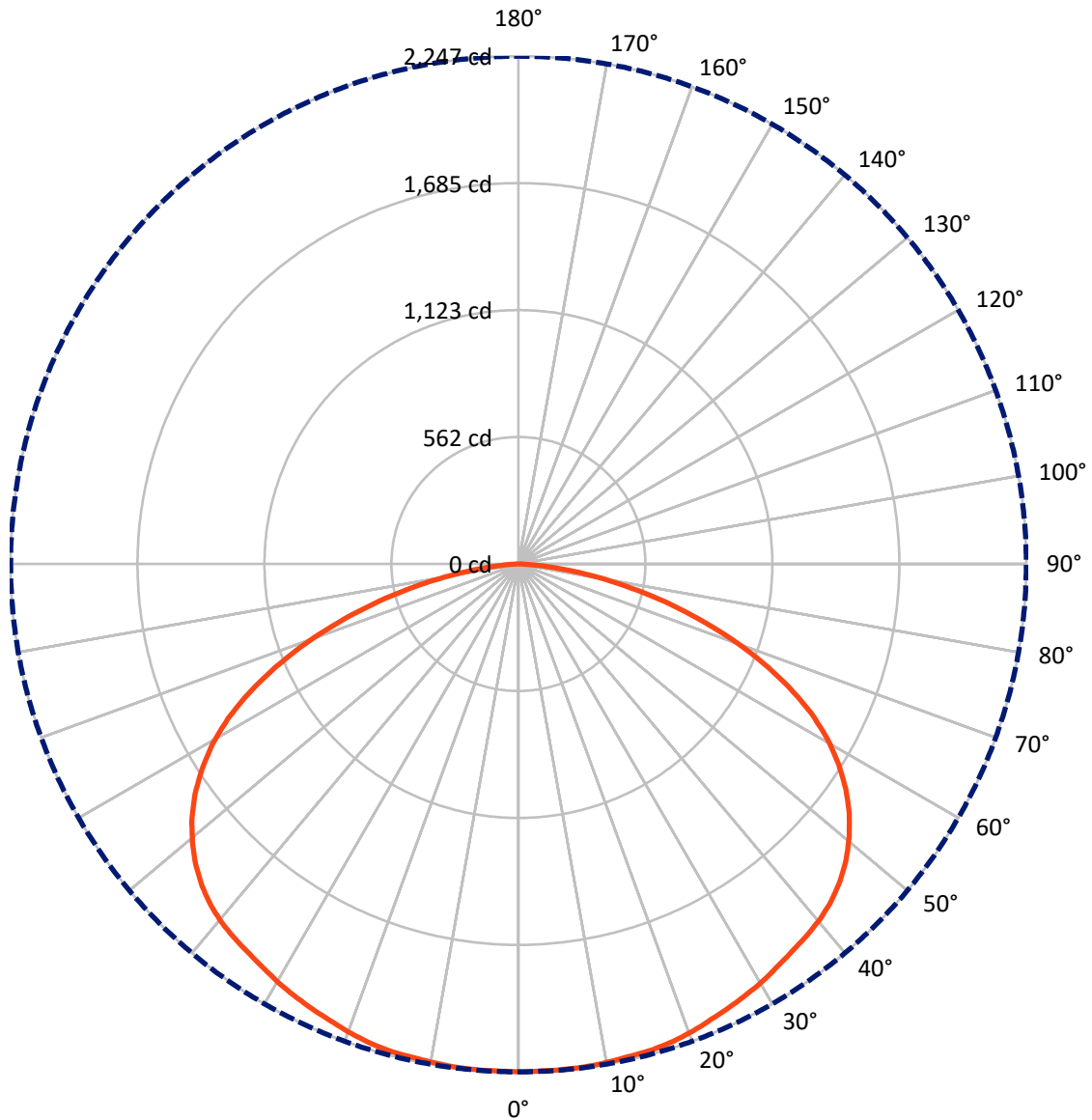


Based on 10 foot mounting height. Maximum calculated value = 22.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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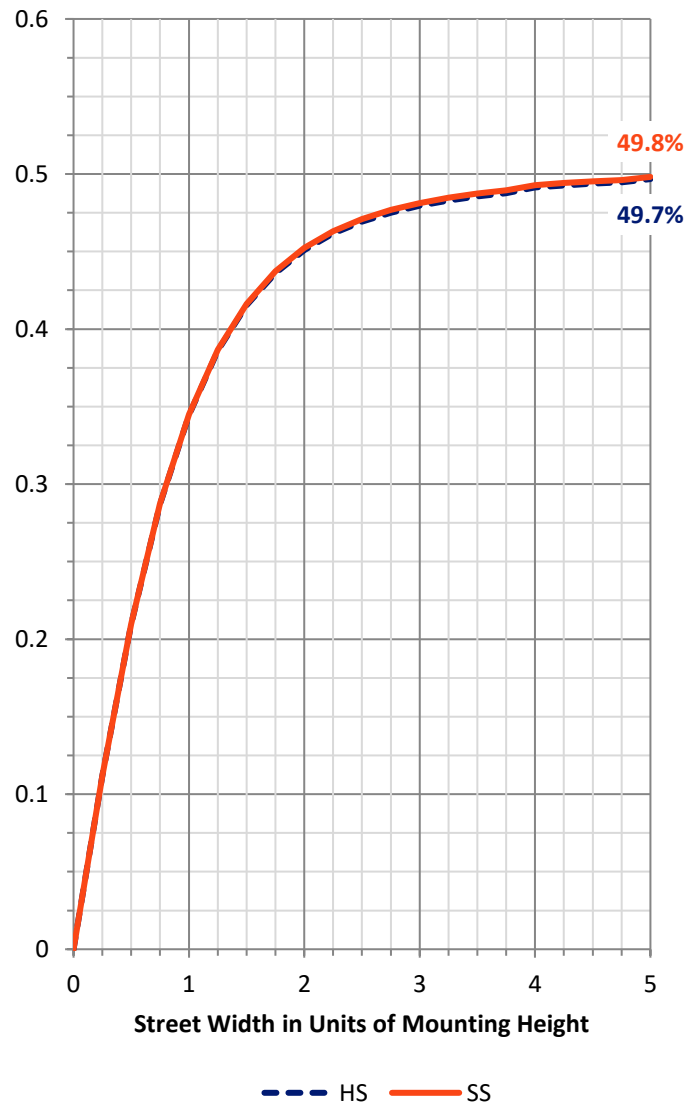
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4274.2	0.0	4274.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4274.2	0.0	4274.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	8548.4	0.0	8548.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.0	2.5
10°-20°	630.4	7.4
20°-30°	1004.0	11.7
30°-40°	1316.4	15.4
40°-50°	1552.5	18.2
50°-60°	1607.9	18.8
60°-70°	1344.7	15.7
70°-80°	732.9	8.6
80°-90°	145.5	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°	8548.4	100.0
0°-180°	8548.4	100.0

Coefficient of Utilization



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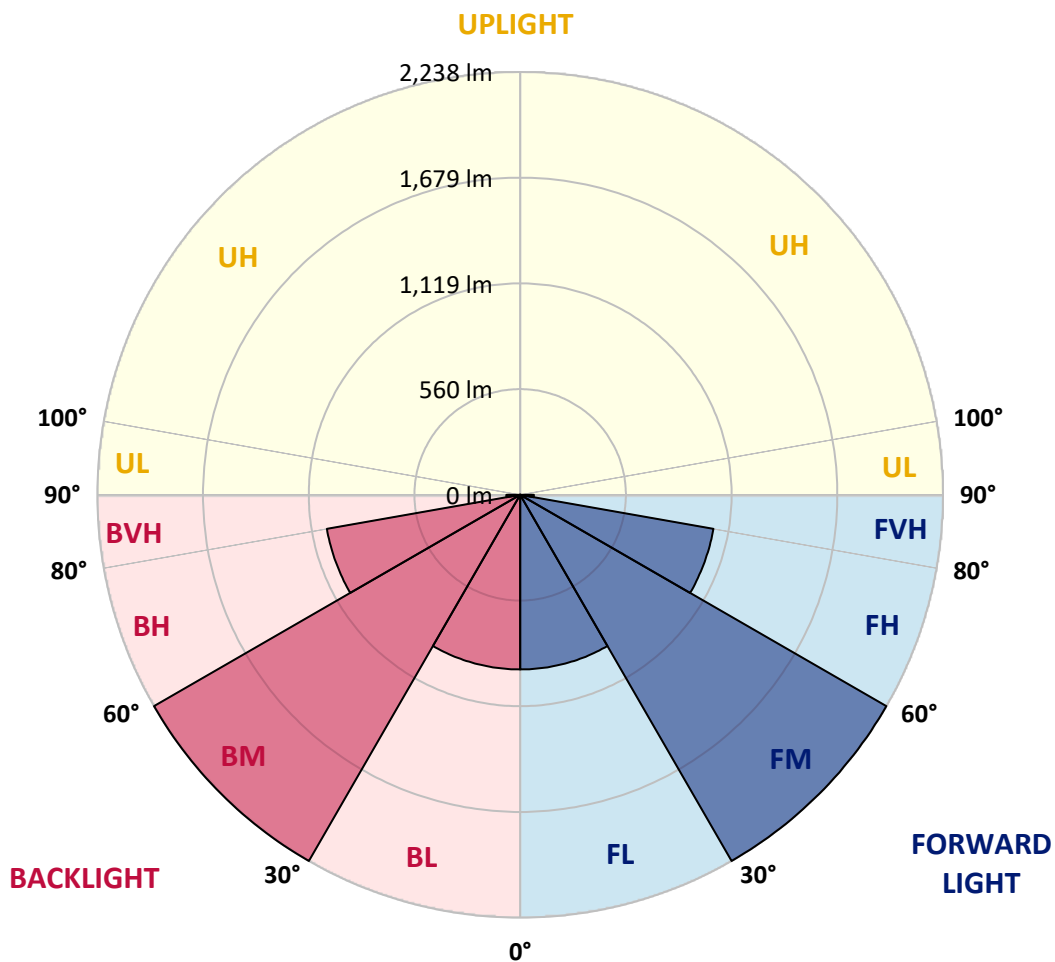
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	924.2	10.8			
FM	(30°-60°)	2238.4	26.2			
FH	(60°-80°)	1038.8	12.2			G1/1800
FVH	(80°-90°)	72.7	0.9			G1/100
BL	(0°-30°)	924.2	10.8	B2/1000		
BM	(30°-60°)	2238.4	26.2	B2/2500		
BH	(60°-80°)	1038.8	12.2	B3/2500		G1/1800
BVH	(80°-90°)	72.7	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°	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5
2.5°	2244.7	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2244.7	2246.5	2246.5
5°	2244.7	2244.7	2244.7	2244.7	2246.5	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7
7.5°	2243.0	2241.1	2241.1	2241.1	2241.1	2241.1	2243.0	2243.0	2243.0	2243.0	2243.0
10°	2237.6	2237.6	2237.6	2237.6	2237.6	2237.6	2237.6	2237.6	2237.6	2237.6	2237.6
12.5°	2232.1	2232.1	2232.1	2232.1	2234.0	2234.0	2234.0	2234.0	2234.0	2234.0	2232.1
15°	2228.6	2228.6	2228.6	2228.6	2228.6	2228.6	2228.6	2228.6	2228.6	2228.6	2228.6
17.5°	2219.6	2219.6	2219.6	2219.6	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4
20°	2205.2	2205.2	2205.2	2205.2	2205.2	2207.0	2208.7	2208.7	2208.7	2208.7	2208.7
22.5°	2187.2	2187.2	2189.0	2189.0	2190.8	2190.8	2192.6	2192.6	2192.6	2192.6	2192.6
25°	2171.1	2171.1	2171.1	2172.8	2172.8	2172.8	2174.6	2176.4	2176.4	2176.4	2174.6
27.5°	2154.8	2154.8	2154.8	2156.6	2156.6	2156.6	2158.4	2158.4	2160.2	2158.4	2158.4
30°	2136.8	2135.0	2135.0	2136.8	2138.7	2138.7	2140.4	2140.4	2140.4	2140.4	2138.7
32.5°	2115.3	2115.3	2117.0	2118.9	2118.9	2120.7	2122.4	2122.4	2122.4	2124.3	2120.7
35°	2095.5	2097.3	2097.3	2099.0	2102.6	2104.5	2106.3	2108.0	2108.0	2108.0	2104.5
37.5°	2079.3	2081.1	2082.9	2086.5	2090.0	2093.6	2097.3	2100.9	2099.0	2099.0	2093.6
40°	2059.5	2061.2	2064.9	2068.5	2075.6	2079.3	2084.6	2088.3	2090.0	2088.3	2082.9
42.5°	2032.5	2034.3	2037.9	2043.3	2052.3	2059.5	2064.9	2070.2	2072.1	2070.2	2064.9
45°	1996.6	1998.3	2001.9	2009.1	2019.9	2027.1	2036.1	2041.5	2045.1	2045.1	2039.7
47.5°	1951.5	1953.4	1958.8	1965.9	1976.8	1985.7	1996.6	2003.7	2007.3	2010.9	2005.6
50°	1895.9	1897.6	1904.8	1913.8	1922.8	1935.4	1948.0	1958.8	1964.2	1965.9	1964.2
52.5°	1832.8	1834.7	1841.8	1850.8	1863.5	1877.8	1892.2	1904.8	1912.0	1915.6	1912.0
55°	1757.3	1760.9	1766.3	1778.9	1793.3	1805.9	1823.8	1838.2	1847.2	1849.1	1847.2
57.5°	1669.2	1674.6	1680.0	1694.3	1708.7	1726.7	1741.1	1755.5	1766.3	1768.1	1768.1
60°	1570.3	1573.9	1579.3	1593.6	1609.8	1622.4	1642.2	1656.6	1665.6	1665.6	1667.3
62.5°	1453.3	1456.9	1465.9	1476.7	1494.7	1507.3	1523.5	1537.9	1546.9	1550.5	1548.6
65°	1316.6	1320.2	1325.6	1340.0	1354.4	1368.7	1385.0	1397.6	1406.5	1408.4	1406.5
67.5°	1165.6	1169.1	1172.7	1190.7	1205.1	1210.5	1230.3	1241.1	1246.5	1248.3	1248.3
70°	1005.5	1007.2	1012.6	1021.6	1037.9	1043.2	1055.8	1064.8	1068.4	1075.6	1070.3
72.5°	838.2	841.7	854.4	856.1	868.8	876.0	879.5	879.5	888.5	888.5	890.4
75°	672.7	674.5	679.9	681.7	690.7	690.7	688.9	692.5	699.6	699.6	701.5
77.5°	509.0	509.0	518.0	510.9	514.4	507.2	510.9	507.2	512.6	510.9	512.6
80°	356.1	356.1	361.5	354.4	356.1	349.0	350.8	349.0	349.0	350.8	350.8
82.5°	219.4	221.3	224.8	219.4	219.4	214.0	215.8	217.7	217.7	215.8	214.0
85°	107.9	107.9	111.5	109.7	107.9	104.3	106.1	107.9	107.9	106.1	106.1
87.5°	28.8	28.8	30.5	30.5	28.8	27.0	28.8	30.5	30.5	30.5	28.8
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°	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5
2.5°	2244.7	2244.7	2246.5	2244.7	2246.5	2244.7	2246.5	2246.5
5°	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7
7.5°	2241.1	2243.0	2241.1	2241.1	2241.1	2243.0	2241.1	2243.0
10°	2237.6	2237.6	2237.6	2237.6	2237.6	2237.6	2237.6	2237.6
12.5°	2232.1	2232.1	2232.1	2232.1	2232.1	2232.1	2232.1	2230.4
15°	2228.6	2226.7	2226.7	2226.7	2225.0	2225.0	2225.0	2225.0
17.5°	2221.4	2219.6	2217.7	2217.7	2217.7	2217.7	2216.0	2216.0
20°	2208.7	2207.0	2205.2	2205.2	2203.3	2203.3	2201.6	2201.6
22.5°	2190.8	2190.8	2189.0	2187.2	2187.2	2185.4	2185.4	2183.6
25°	2174.6	2172.8	2171.1	2169.2	2167.4	2167.4	2165.6	2163.8
27.5°	2156.6	2153.0	2151.2	2149.4	2147.7	2145.8	2144.0	2142.2
30°	2136.8	2133.3	2129.7	2127.8	2124.3	2120.7	2118.9	2117.0
32.5°	2117.0	2113.4	2108.0	2102.6	2099.0	2095.5	2091.9	2090.0
35°	2100.9	2093.6	2088.3	2081.1	2075.6	2070.2	2068.5	2066.7
37.5°	2088.3	2081.1	2072.1	2064.9	2059.5	2052.3	2048.7	2045.1
40°	2075.6	2066.7	2055.9	2046.9	2039.7	2030.7	2027.1	2023.5
42.5°	2057.7	2046.9	2036.1	2025.3	2014.6	2005.6	2000.2	1996.6
45°	2032.5	2021.7	2009.1	1994.7	1983.9	1973.2	1967.8	1964.2
47.5°	1998.3	1987.6	1973.2	1960.5	1948.0	1937.2	1930.0	1926.4
50°	1956.9	1946.2	1931.8	1917.4	1904.8	1892.2	1886.8	1881.4
52.5°	1904.8	1895.9	1879.6	1868.8	1854.5	1841.8	1836.4	1832.8
55°	1840.1	1831.1	1814.8	1804.1	1789.7	1778.9	1771.7	1766.3
57.5°	1760.9	1753.8	1735.7	1725.0	1710.5	1699.7	1694.3	1690.7
60°	1663.8	1656.6	1638.6	1627.8	1615.2	1602.6	1599.0	1595.4
62.5°	1543.2	1539.6	1525.2	1512.7	1500.1	1487.5	1483.9	1482.1
65°	1403.0	1399.4	1386.8	1376.0	1365.2	1354.4	1350.8	1347.2
67.5°	1242.9	1241.1	1230.3	1221.3	1214.1	1203.4	1201.5	1197.9
70°	1072.0	1068.4	1059.4	1052.3	1046.9	1037.9	1036.0	1032.5
72.5°	893.9	892.1	886.8	877.8	877.8	865.1	863.4	861.6
75°	697.9	706.9	699.6	696.1	696.1	688.9	688.9	687.1
77.5°	510.9	519.9	525.2	518.0	525.2	518.0	518.0	516.2
80°	349.0	356.1	361.5	356.1	365.1	359.8	359.8	366.9
82.5°	212.3	219.4	223.0	221.3	226.7	224.8	223.0	228.4
85°	104.3	107.9	109.7	109.7	111.5	107.9	111.5	113.3
87.5°	27.0	28.8	30.5	28.8	30.5	30.5	30.5	32.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)