

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: P197551

Luminaire Tested: **TT-C5-LED-E1-5CQ-PM-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115423)
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-MS/DIM-7050
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9123.9 lumens
Efficiency: N/A
Efficacy: 118.5 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

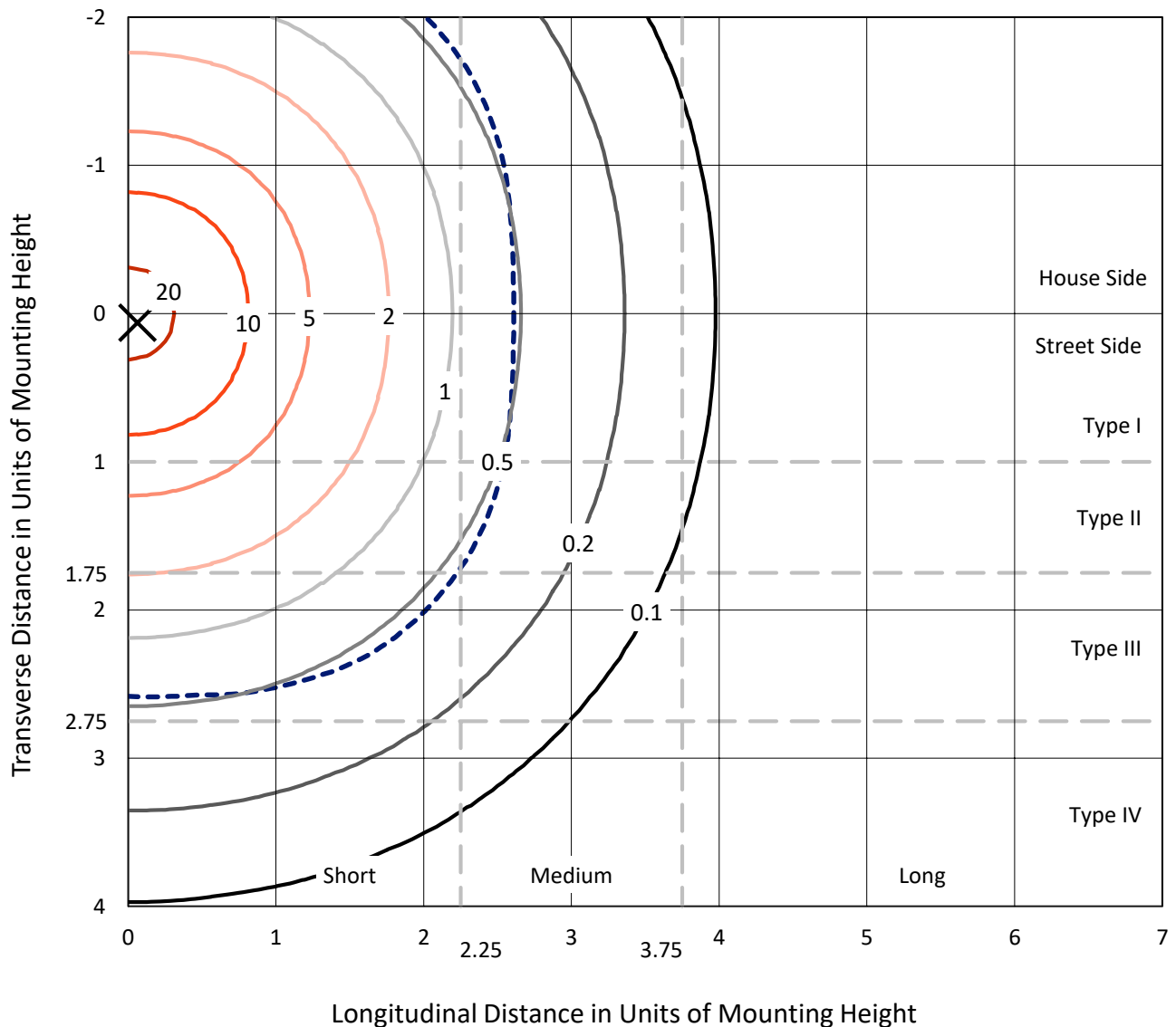


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

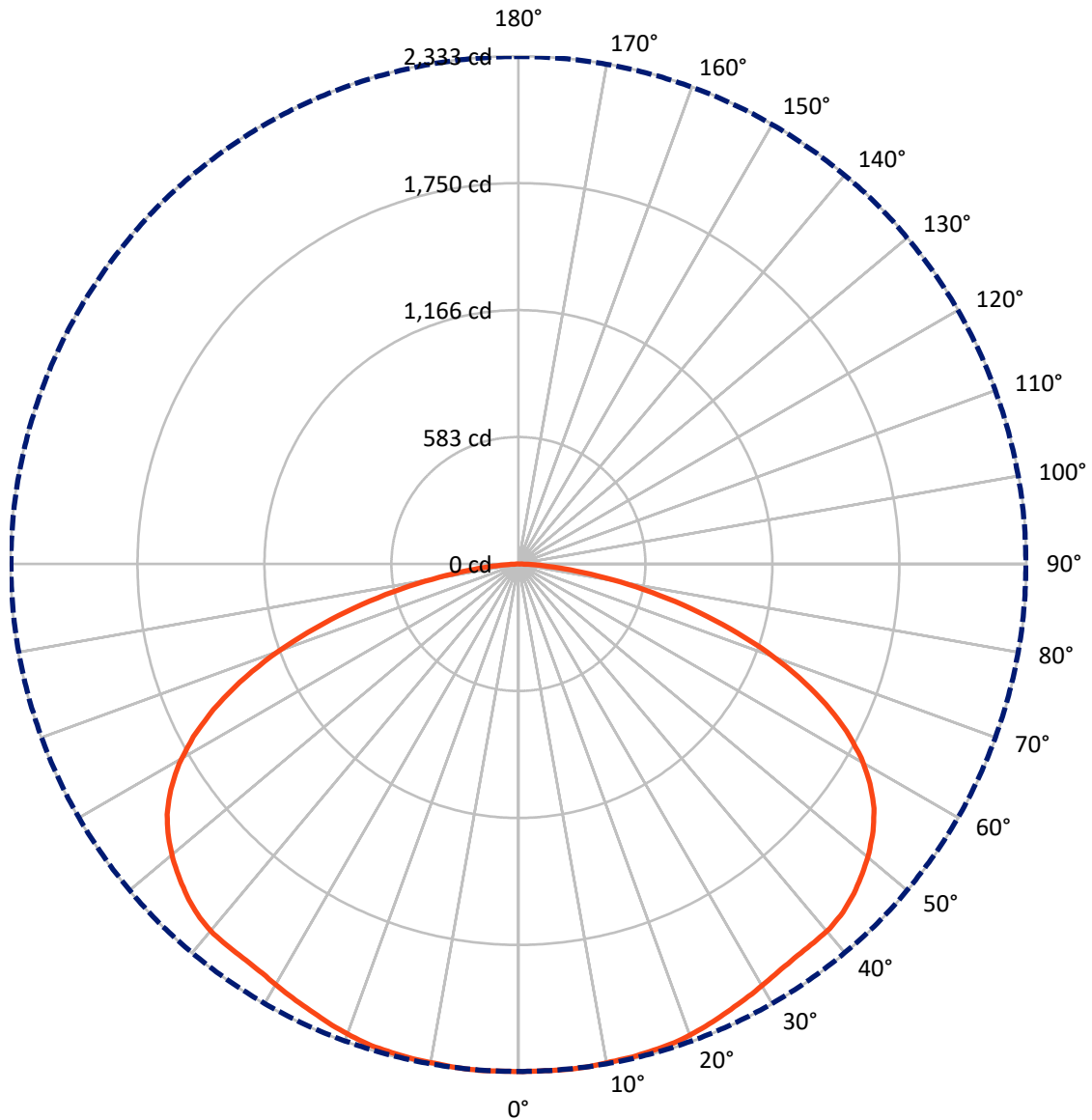


Based on 10 foot mounting height. Maximum calculated value = 23.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

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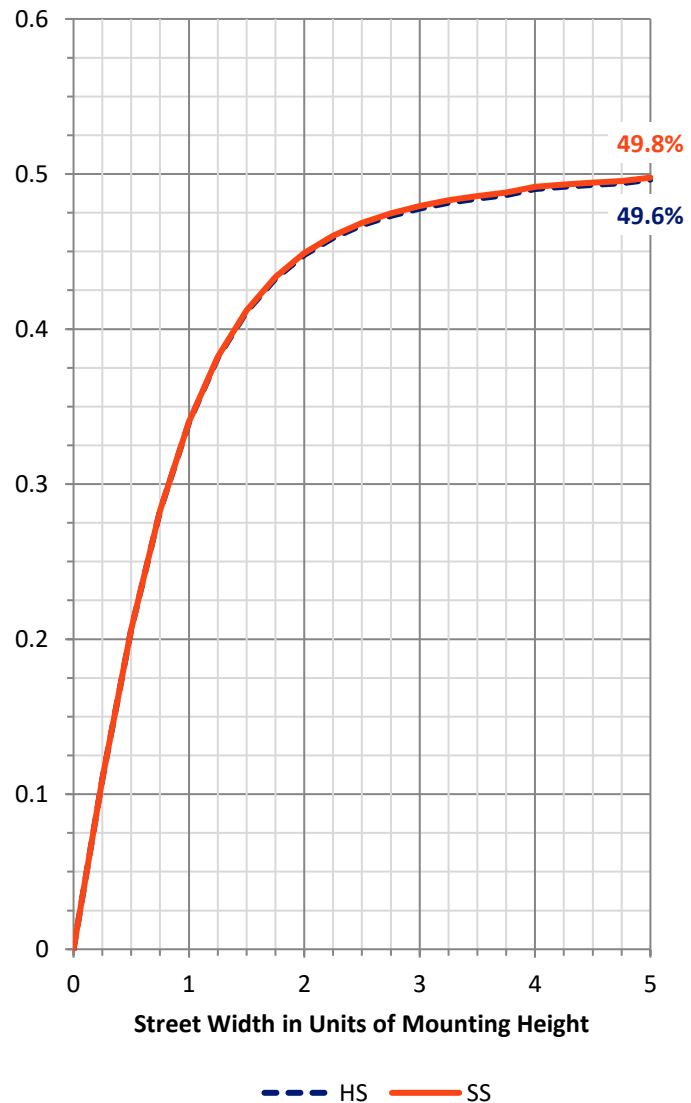
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4562.0	0.0	4562.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4562.0	0.0	4562.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9123.9	0.0	9123.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	2.4
10°-20°	655.8	7.2
20°-30°	1046.5	11.5
30°-40°	1378.4	15.1
40°-50°	1639.7	18.0
50°-60°	1716.1	18.8
60°-70°	1459.4	16.0
70°-80°	829.3	9.1
80°-90°	176.4	1.9
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°	9123.9	100.0
0°-180°	9123.9	100.0



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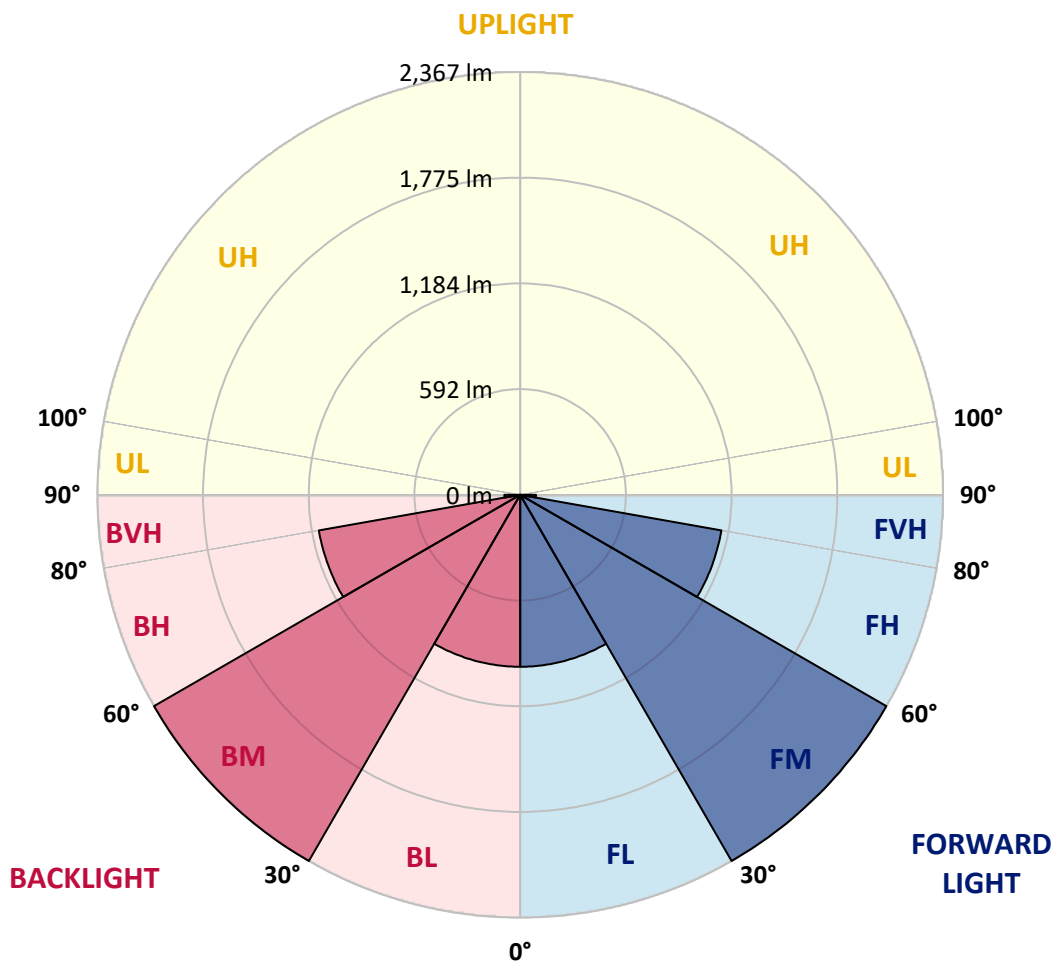
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	962.3	10.5			
FM	(30°-60°)	2367.1	25.9			
FH	(60°-80°)	1144.3	12.5			G1/1800
FVH	(80°-90°)	88.2	1.0			G1/100
BL	(0°-30°)	962.3	10.5	B2/1000		
BM	(30°-60°)	2367.1	25.9	B2/2500		
BH	(60°-80°)	1144.3	12.5	B3/2500		G1/1800
BVH	(80°-90°)	88.2	1.0			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°	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1
2.5°	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1
5°	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2332.9	2331.1
7.5°	2329.3	2329.3	2329.3	2329.3	2331.1	2329.3	2329.3	2331.1	2331.1	2331.1	2331.1
10°	2325.7	2323.9	2323.9	2325.7	2325.7	2325.7	2325.7	2325.7	2327.5	2325.7	2325.7
12.5°	2320.3	2318.5	2320.3	2320.3	2320.3	2322.1	2322.1	2322.1	2323.9	2323.9	2322.1
15°	2314.9	2314.9	2314.9	2314.9	2314.9	2316.7	2316.7	2318.5	2318.5	2318.5	2318.5
17.5°	2307.7	2307.7	2307.7	2309.5	2309.5	2311.3	2311.3	2311.3	2313.1	2313.1	2313.1
20°	2295.1	2293.3	2295.1	2295.1	2296.9	2298.7	2298.7	2300.5	2300.5	2300.5	2300.5
22.5°	2277.1	2277.1	2278.9	2278.9	2280.8	2282.5	2282.5	2284.3	2284.3	2284.3	2284.3
25°	2259.1	2260.9	2260.9	2262.8	2262.8	2264.5	2266.4	2266.4	2266.4	2266.4	2266.4
27.5°	2241.1	2243.0	2243.0	2243.0	2244.7	2246.5	2248.4	2250.1	2252.0	2250.1	2250.1
30°	2221.4	2221.4	2223.2	2225.0	2226.7	2228.6	2232.1	2234.0	2235.7	2234.0	2234.0
32.5°	2199.8	2201.6	2203.3	2205.2	2208.7	2212.3	2216.0	2217.7	2219.6	2217.7	2217.7
35°	2183.6	2183.6	2187.2	2190.8	2194.3	2199.8	2203.3	2207.0	2210.6	2208.7	2207.0
37.5°	2167.4	2167.4	2171.1	2176.4	2183.6	2190.8	2198.0	2203.3	2205.2	2205.2	2203.3
40°	2147.7	2149.4	2153.0	2162.0	2172.8	2181.8	2190.8	2198.0	2201.6	2201.6	2198.0
42.5°	2126.0	2127.8	2133.3	2142.2	2154.8	2165.6	2176.4	2181.8	2187.2	2187.2	2183.6
45°	2095.5	2097.3	2104.5	2113.4	2126.0	2136.8	2149.4	2154.8	2162.0	2160.2	2158.4
47.5°	2055.9	2057.7	2064.9	2073.9	2086.5	2099.0	2111.6	2120.7	2126.0	2126.0	2124.3
50°	2007.3	2009.1	2016.3	2025.3	2041.5	2055.9	2068.5	2077.5	2086.5	2086.5	2084.6
52.5°	1946.2	1949.8	1955.2	1967.8	1985.7	2001.9	2018.1	2032.5	2037.9	2039.7	2037.9
55°	1870.6	1874.2	1881.4	1895.9	1915.6	1935.4	1953.4	1969.5	1976.8	1982.2	1978.5
57.5°	1782.5	1786.0	1795.1	1811.3	1832.8	1852.6	1876.0	1894.0	1899.4	1904.8	1903.0
60°	1678.2	1683.6	1692.6	1710.5	1732.1	1753.8	1775.3	1796.9	1802.3	1809.4	1805.9
62.5°	1555.9	1561.3	1570.3	1590.0	1613.4	1633.2	1658.4	1678.2	1683.6	1690.7	1689.0
65°	1415.5	1420.9	1429.9	1451.5	1473.1	1494.7	1518.1	1539.6	1545.1	1552.2	1550.5
67.5°	1255.5	1260.9	1269.9	1295.1	1316.6	1338.2	1358.0	1379.6	1383.2	1390.4	1388.6
70°	1086.4	1093.5	1100.8	1124.2	1144.0	1162.0	1183.5	1201.5	1208.7	1212.3	1208.7
72.5°	917.3	922.7	929.9	946.1	960.5	976.7	998.2	1010.9	1016.2	1018.1	1018.1
75°	742.9	748.3	748.3	766.2	777.1	786.1	804.0	813.0	816.6	820.2	820.2
77.5°	577.4	573.8	577.4	584.6	591.8	598.9	609.8	615.2	618.7	625.9	622.3
80°	404.7	406.5	408.3	413.7	417.3	419.1	426.3	428.1	429.9	437.1	433.4
82.5°	260.8	257.2	260.8	259.1	262.6	257.2	260.8	266.2	262.6	266.2	268.0
85°	136.7	131.3	131.3	133.1	134.9	131.3	133.1	131.3	131.3	134.9	133.1
87.5°	43.2	41.4	43.2	41.4	43.2	41.4	43.2	44.9	43.2	43.2	44.9
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°	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1
2.5°	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1
5°	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1	2331.1
7.5°	2329.3	2329.3	2329.3	2329.3	2329.3	2329.3	2327.5	2329.3
10°	2325.7	2325.7	2325.7	2325.7	2323.9	2323.9	2323.9	2323.9
12.5°	2322.1	2322.1	2320.3	2320.3	2320.3	2320.3	2318.5	2318.5
15°	2318.5	2316.7	2316.7	2314.9	2314.9	2314.9	2313.1	2314.9
17.5°	2313.1	2311.3	2311.3	2309.5	2309.5	2307.7	2307.7	2307.7
20°	2300.5	2298.7	2298.7	2296.9	2296.9	2295.1	2293.3	2293.3
22.5°	2282.5	2282.5	2282.5	2280.8	2278.9	2278.9	2277.1	2277.1
25°	2266.4	2264.5	2264.5	2262.8	2260.9	2260.9	2259.1	2259.1
27.5°	2250.1	2248.4	2246.5	2243.0	2243.0	2241.1	2239.4	2237.6
30°	2232.1	2228.6	2225.0	2223.2	2221.4	2217.7	2216.0	2214.2
32.5°	2214.2	2210.6	2207.0	2203.3	2198.0	2196.2	2192.6	2192.6
35°	2203.3	2198.0	2192.6	2185.4	2180.0	2174.6	2171.1	2169.2
37.5°	2198.0	2190.8	2181.8	2172.8	2163.8	2156.6	2151.2	2151.2
40°	2190.8	2181.8	2171.1	2158.4	2147.7	2138.7	2133.3	2131.4
42.5°	2176.4	2167.4	2153.0	2142.2	2127.8	2118.9	2111.6	2109.9
45°	2151.2	2142.2	2129.7	2115.3	2100.9	2090.0	2082.9	2081.1
47.5°	2118.9	2108.0	2093.6	2079.3	2064.9	2052.3	2045.1	2043.3
50°	2077.5	2066.7	2052.3	2037.9	2021.7	2009.1	2000.2	2000.2
52.5°	2030.7	2018.1	2001.9	1985.7	1967.8	1955.2	1946.2	1944.4
55°	1969.5	1955.2	1939.0	1921.0	1901.2	1886.8	1876.0	1874.2
57.5°	1894.0	1877.8	1859.8	1840.1	1820.3	1804.1	1791.5	1789.7
60°	1798.7	1780.7	1762.7	1742.9	1721.4	1703.4	1690.7	1687.2
62.5°	1681.7	1662.0	1642.2	1624.2	1600.8	1582.9	1570.3	1566.6
65°	1543.2	1527.1	1507.3	1485.7	1460.5	1442.5	1429.9	1428.2
67.5°	1381.4	1365.2	1345.5	1325.6	1300.4	1284.3	1271.7	1268.0
70°	1203.4	1189.0	1172.7	1153.0	1131.3	1115.2	1102.6	1100.8
72.5°	1014.5	1001.9	987.5	973.1	951.5	938.9	928.2	926.3
75°	820.2	807.6	796.8	786.1	769.8	760.8	750.0	750.0
77.5°	622.3	618.7	611.6	598.9	589.9	582.8	577.4	573.8
80°	435.3	431.7	428.1	420.9	415.5	413.7	410.1	406.5
82.5°	266.2	264.4	266.2	262.6	260.8	260.8	259.1	255.4
85°	134.9	136.7	134.9	133.1	133.1	133.1	133.1	131.3
87.5°	43.2	44.9	43.2	41.4	41.4	41.4	41.4	39.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)