

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: P197526

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197526
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
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8630.1 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

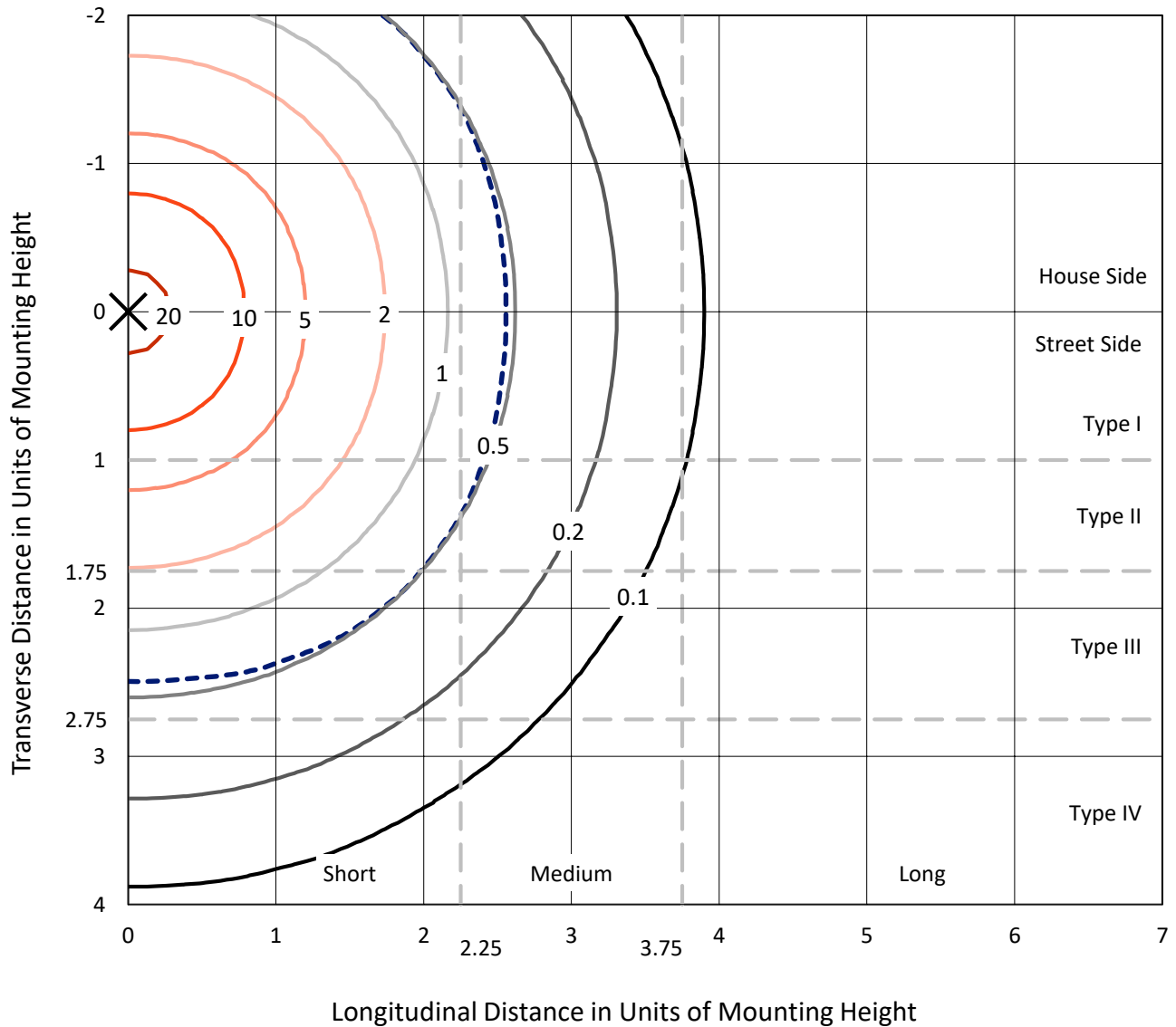
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

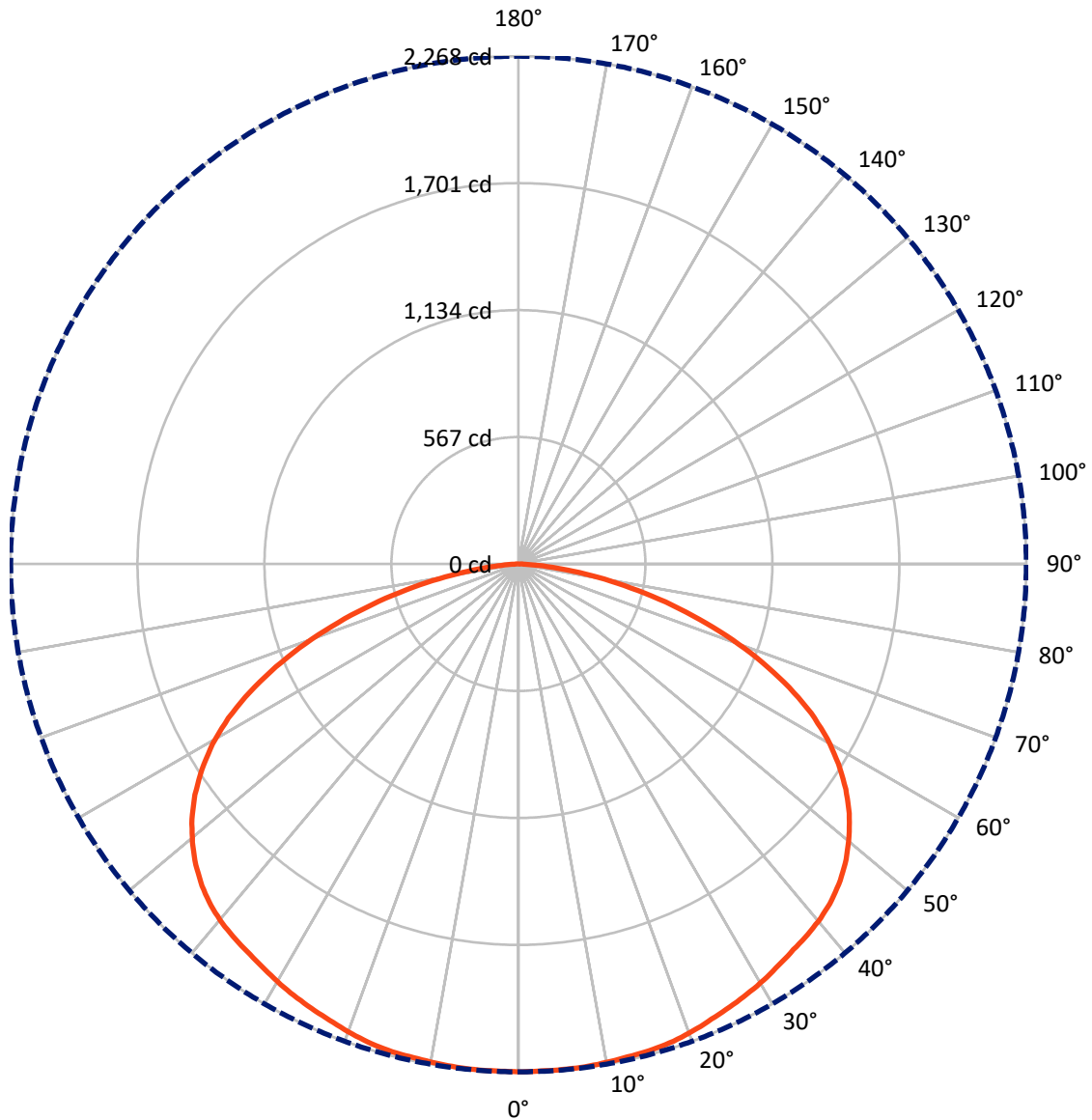
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.7 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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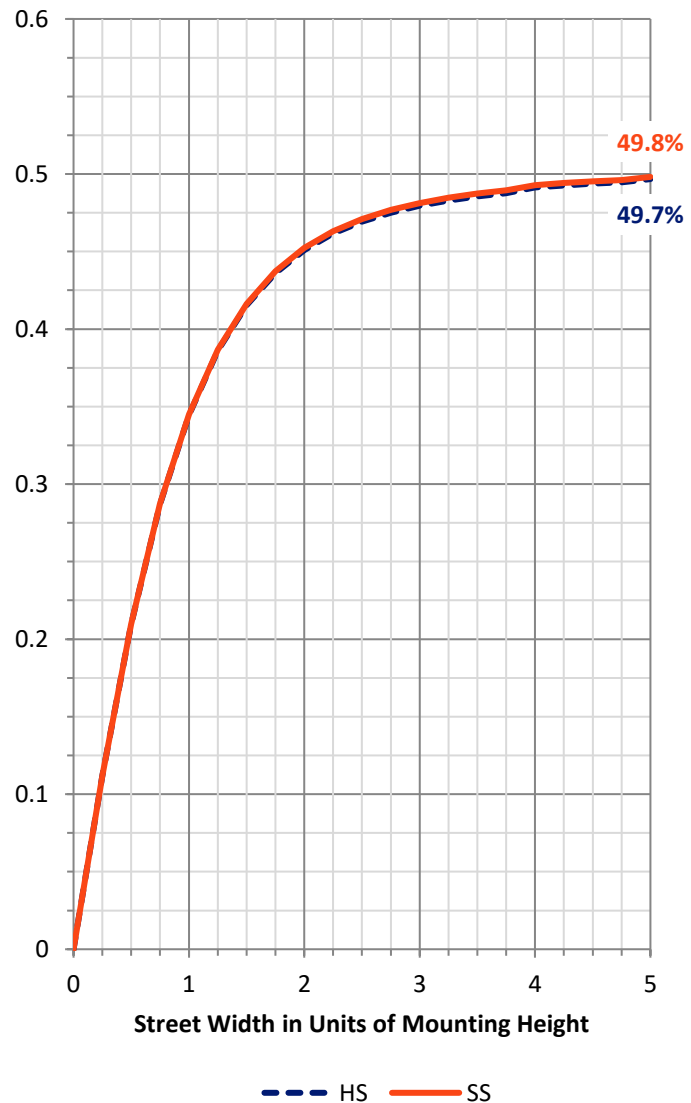
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4315.0	0.0	4315.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4315.0	0.0	4315.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8630.1	0.0	8630.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.1	2.5
10°-20°	636.4	7.4
20°-30°	1013.6	11.7
30°-40°	1328.9	15.4
40°-50°	1567.3	18.2
50°-60°	1623.3	18.8
60°-70°	1357.5	15.7
70°-80°	739.9	8.6
80°-90°	146.9	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°	8630.1	100.0
0°-180°	8630.1	100.0

Coefficient of Utilization



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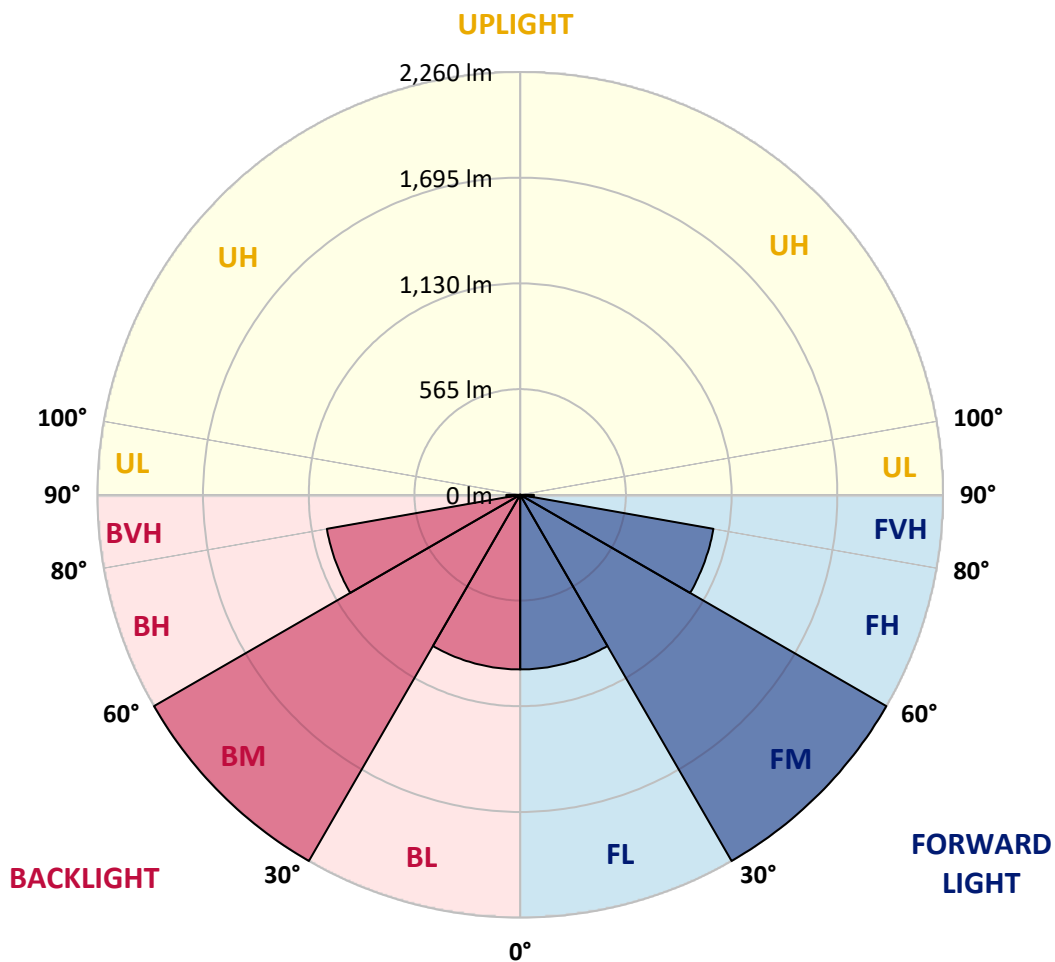
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	933.1	10.8			
FM	(30°-60°)	2259.8	26.2			
FH	(60°-80°)	1048.7	12.2			G1/1800
FVH	(80°-90°)	73.4	0.9			G1/100
BL	(0°-30°)	933.1	10.8	B2/1000		
BM	(30°-60°)	2259.8	26.2	B2/2500		
BH	(60°-80°)	1048.7	12.2	B3/2500		G1/1800
BVH	(80°-90°)	73.4	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°	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0
2.5°	2266.2	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0	2266.2	2268.0	2268.0
5°	2266.2	2266.2	2266.2	2266.2	2268.0	2266.2	2266.2	2266.2	2266.2	2266.2	2266.2
7.5°	2264.3	2262.6	2262.6	2262.6	2262.6	2262.6	2264.3	2264.3	2264.3	2264.3	2264.3
10°	2258.9	2258.9	2258.9	2258.9	2258.9	2258.9	2258.9	2258.9	2258.9	2258.9	2258.9
12.5°	2253.5	2253.5	2253.5	2253.5	2255.3	2255.3	2255.3	2255.3	2255.3	2255.3	2253.5
15°	2249.8	2249.8	2249.8	2249.8	2249.8	2249.8	2249.8	2249.8	2249.8	2249.8	2249.8
17.5°	2240.7	2240.7	2240.7	2240.7	2242.6	2242.6	2242.6	2242.6	2242.6	2242.6	2242.6
20°	2226.2	2226.2	2226.2	2226.2	2226.2	2228.1	2229.9	2229.9	2229.9	2229.9	2229.9
22.5°	2208.1	2208.1	2209.9	2209.9	2211.7	2211.7	2213.5	2213.5	2213.5	2213.5	2213.5
25°	2191.7	2191.7	2191.7	2193.6	2193.6	2193.6	2195.4	2197.1	2197.1	2197.1	2195.4
27.5°	2175.4	2175.4	2175.4	2177.2	2177.2	2177.2	2179.1	2179.1	2180.8	2179.1	2179.1
30°	2157.2	2155.4	2155.4	2157.2	2159.1	2159.1	2160.9	2160.9	2160.9	2160.9	2159.1
32.5°	2135.5	2135.5	2137.2	2139.1	2139.1	2140.9	2142.7	2142.7	2142.7	2144.6	2140.9
35°	2115.5	2117.3	2117.3	2119.1	2122.7	2124.6	2126.4	2128.2	2128.2	2128.2	2124.6
37.5°	2099.1	2101.0	2102.8	2106.4	2110.1	2113.6	2117.3	2120.9	2119.1	2119.1	2113.6
40°	2079.1	2081.0	2084.6	2088.2	2095.5	2099.1	2104.5	2108.2	2110.1	2108.2	2102.8
42.5°	2052.0	2053.7	2057.4	2062.8	2071.9	2079.1	2084.6	2090.0	2091.9	2090.0	2084.6
45°	2015.6	2017.5	2021.0	2028.3	2039.2	2046.5	2055.5	2061.0	2064.6	2064.6	2059.2
47.5°	1970.2	1972.0	1977.4	1984.8	1995.6	2004.7	2015.6	2022.9	2026.5	2030.1	2024.7
50°	1913.9	1915.8	1923.0	1932.1	1941.2	1953.8	1966.6	1977.4	1982.9	1984.8	1982.9
52.5°	1850.3	1852.2	1859.4	1868.5	1881.3	1895.8	1910.3	1923.0	1930.3	1933.9	1930.3
55°	1774.1	1777.7	1783.1	1795.9	1810.4	1823.2	1841.2	1855.8	1864.9	1866.7	1864.9
57.5°	1685.1	1690.5	1696.0	1710.5	1725.0	1743.2	1757.7	1772.3	1783.1	1785.0	1785.0
60°	1585.3	1588.8	1594.4	1608.9	1625.2	1637.9	1657.9	1672.4	1681.5	1681.5	1683.3
62.5°	1467.2	1470.8	1479.9	1490.8	1509.0	1521.7	1538.0	1552.6	1561.6	1565.3	1563.4
65°	1329.2	1332.9	1338.3	1352.8	1367.3	1381.9	1398.2	1410.9	1420.0	1421.8	1420.0
67.5°	1176.7	1180.4	1183.9	1202.1	1216.6	1222.1	1242.0	1252.9	1258.4	1260.2	1260.2
70°	1015.1	1016.9	1022.3	1031.4	1047.7	1053.2	1065.9	1075.0	1078.7	1085.9	1080.4
72.5°	846.2	849.9	862.5	864.4	877.0	884.4	887.9	887.9	897.0	897.0	898.9
75°	679.2	681.0	686.4	688.2	697.3	697.3	695.5	699.1	706.4	706.4	708.2
77.5°	513.9	513.9	522.9	515.7	519.4	512.0	515.7	512.0	517.5	515.7	517.5
80°	359.6	359.6	365.0	357.7	359.6	352.2	354.1	352.2	352.2	354.1	354.1
82.5°	221.6	223.4	227.0	221.6	221.6	216.0	217.9	219.7	219.7	217.9	216.0
85°	108.9	108.9	112.6	110.8	108.9	105.4	107.1	108.9	108.9	107.1	107.1
87.5°	29.1	29.1	30.8	30.8	29.1	27.3	29.1	30.8	30.8	30.8	29.1
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°	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0
2.5°	2266.2	2266.2	2268.0	2266.2	2268.0	2266.2	2268.0	2268.0
5°	2266.2	2266.2	2266.2	2266.2	2266.2	2266.2	2266.2	2266.2
7.5°	2262.6	2264.3	2262.6	2262.6	2262.6	2264.3	2262.6	2264.3
10°	2258.9	2258.9	2258.9	2258.9	2258.9	2258.9	2258.9	2258.9
12.5°	2253.5	2253.5	2253.5	2253.5	2253.5	2253.5	2253.5	2251.7
15°	2249.8	2248.0	2248.0	2248.0	2246.3	2246.3	2246.3	2246.3
17.5°	2242.6	2240.7	2238.9	2238.9	2238.9	2238.9	2237.2	2237.2
20°	2229.9	2228.1	2226.2	2226.2	2224.4	2224.4	2222.6	2222.6
22.5°	2211.7	2211.7	2209.9	2208.1	2208.1	2206.2	2206.2	2204.5
25°	2195.4	2193.6	2191.7	2189.9	2188.1	2188.1	2186.3	2184.5
27.5°	2177.2	2173.6	2171.7	2170.0	2168.2	2166.3	2164.5	2162.6
30°	2157.2	2153.7	2150.0	2148.1	2144.6	2140.9	2139.1	2137.2
32.5°	2137.2	2133.6	2128.2	2122.7	2119.1	2115.5	2111.8	2110.1
35°	2120.9	2113.6	2108.2	2101.0	2095.5	2090.0	2088.2	2086.4
37.5°	2108.2	2101.0	2091.9	2084.6	2079.1	2071.9	2068.3	2064.6
40°	2095.5	2086.4	2075.5	2066.5	2059.2	2050.1	2046.5	2042.9
42.5°	2077.4	2066.5	2055.5	2044.6	2033.8	2024.7	2019.2	2015.6
45°	2052.0	2041.0	2028.3	2013.8	2002.9	1992.0	1986.5	1982.9
47.5°	2017.5	2006.5	1992.0	1979.3	1966.6	1955.7	1948.4	1944.8
50°	1975.7	1964.8	1950.3	1935.7	1923.0	1910.3	1904.8	1899.4
52.5°	1923.0	1913.9	1897.6	1886.7	1872.2	1859.4	1854.0	1850.3
55°	1857.7	1848.6	1832.2	1821.3	1806.8	1795.9	1788.7	1783.1
57.5°	1777.7	1770.5	1752.3	1741.4	1726.9	1716.0	1710.5	1706.9
60°	1679.7	1672.4	1654.3	1643.4	1630.6	1617.9	1614.3	1610.7
62.5°	1558.0	1554.3	1539.8	1527.2	1514.4	1501.8	1498.1	1496.2
65°	1416.4	1412.7	1400.1	1389.1	1378.2	1367.3	1363.7	1360.0
67.5°	1254.8	1252.9	1242.0	1232.9	1225.7	1214.8	1213.0	1209.4
70°	1082.2	1078.7	1069.6	1062.2	1056.8	1047.7	1045.9	1042.3
72.5°	902.4	900.7	895.2	886.1	886.1	873.4	871.6	869.8
75°	704.6	713.7	706.4	702.7	702.7	695.5	695.5	693.7
77.5°	515.7	524.8	530.2	522.9	530.2	522.9	522.9	521.1
80°	352.2	359.6	365.0	359.6	368.6	363.2	363.2	370.4
82.5°	214.3	221.6	225.1	223.4	228.8	227.0	225.1	230.6
85°	105.4	108.9	110.8	110.8	112.6	108.9	112.6	114.4
87.5°	27.3	29.1	30.8	29.1	30.8	30.8	30.8	32.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)