

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: P197602

Luminaire Tested: **TT-C6-LED-E1-MQ-LWR-LW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115393)  
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-LWR-LW  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
MEDIUM 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: 10921.5 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

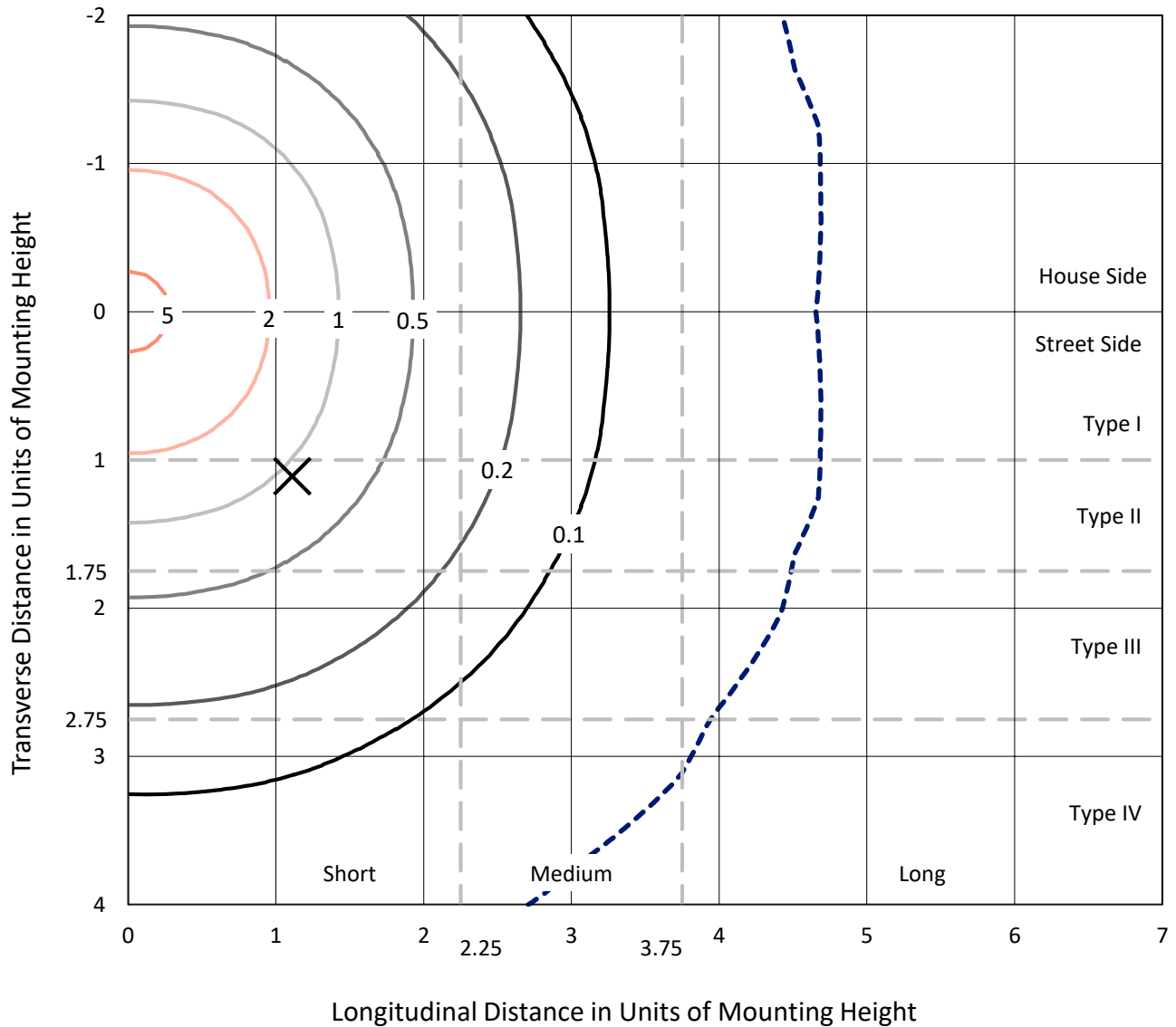
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

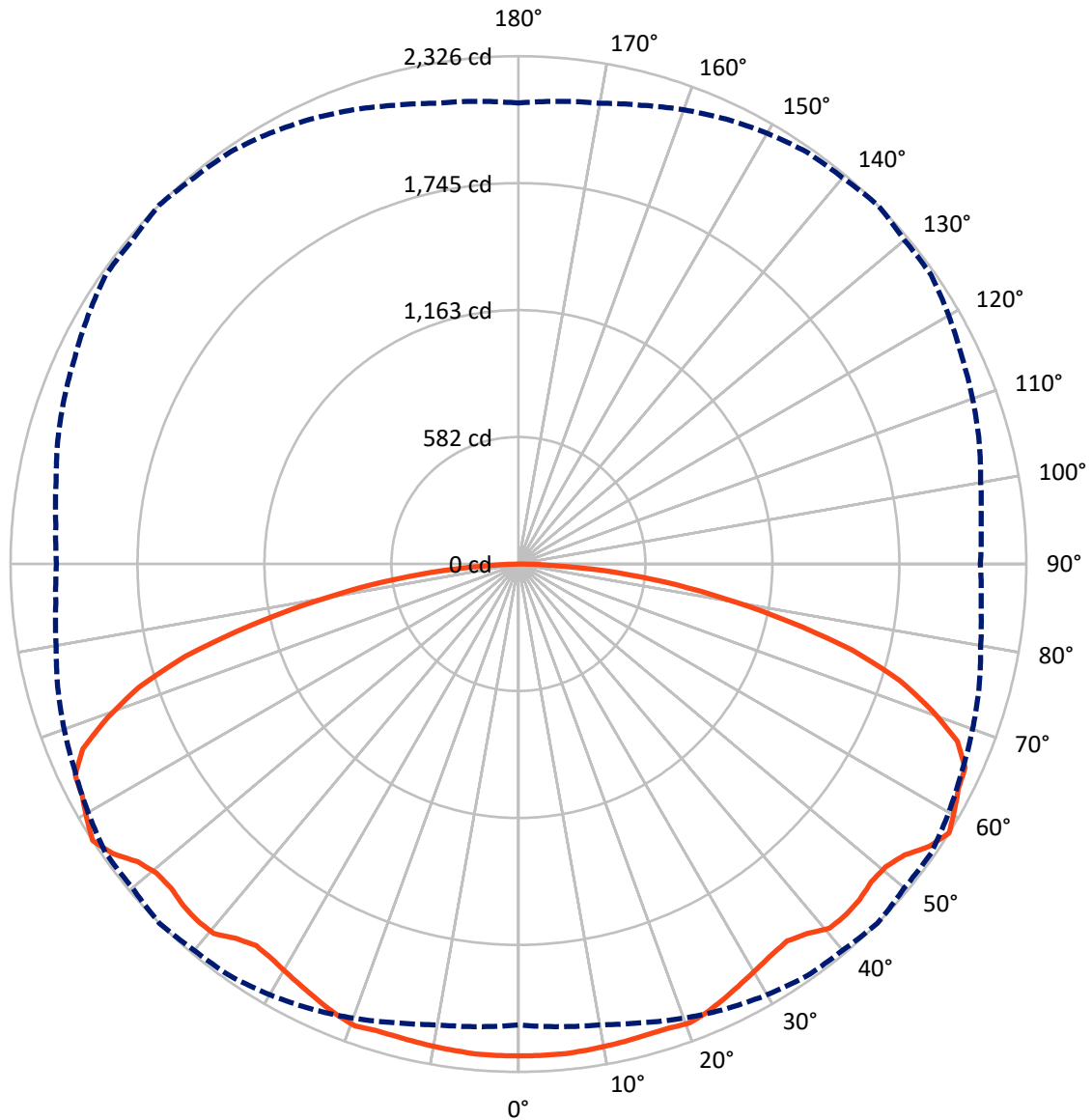
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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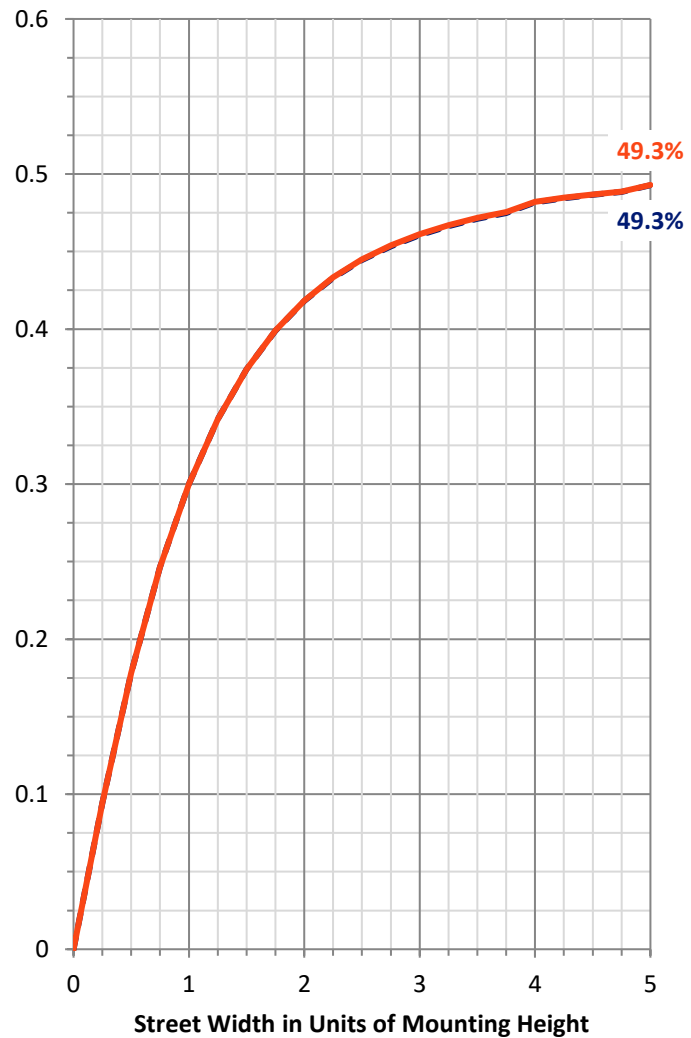
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5460.8	0.0	5460.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5460.8	0.0	5460.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10921.5	0.0	10921.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.6	2.0
10°-20°	633.2	5.8
20°-30°	1014.2	9.3
30°-40°	1335.1	12.2
40°-50°	1662.9	15.2
50°-60°	1958.8	17.9
60°-70°	2082.5	19.1
70°-80°	1561.6	14.3
80°-90°	458.6	4.2
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°	10921.5	100.0
0°-180°	10921.5	100.0



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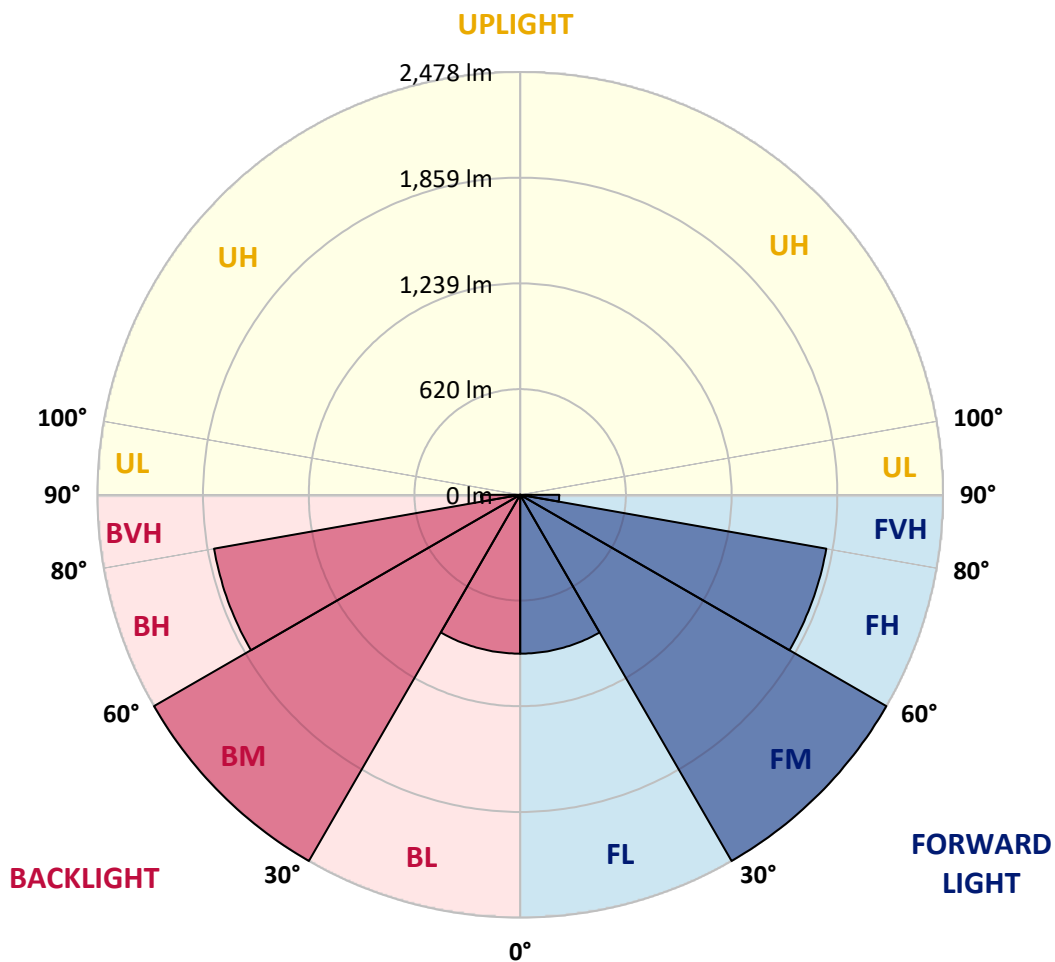
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	931.0	8.5			
FM (30°-60°)	2478.4	22.7			
FH (60°-80°)	1822.1	16.7			G2/5000
FVH (80°-90°)	229.3	2.1			G3/500
BL (0°-30°)	931.0	8.5	B2/1000		
BM (30°-60°)	2478.4	22.7	B2/2500		
BH (60°-80°)	1822.1	16.7	B3/2500		G2/5000
BVH (80°-90°)	229.3	2.1			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°	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8
2.5°	2250.5	2250.5	2250.5	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8
5°	2250.5	2250.5	2250.5	2250.5	2250.5	2250.5	2252.8	2252.8	2252.8	2252.8	2252.8
7.5°	2246.0	2246.0	2246.0	2246.0	2246.0	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3
10°	2241.4	2241.4	2241.4	2241.4	2243.7	2243.7	2243.7	2243.7	2243.7	2243.7	2243.7
12.5°	2236.8	2236.8	2234.5	2236.8	2236.8	2236.8	2239.1	2239.1	2239.1	2239.1	2239.1
15°	2227.7	2227.7	2230.0	2230.0	2232.2	2232.2	2232.2	2232.2	2234.5	2234.5	2234.5
17.5°	2223.1	2223.1	2225.4	2227.7	2227.7	2230.0	2232.2	2232.2	2234.5	2234.5	2234.5
20°	2230.0	2230.0	2230.0	2232.2	2234.5	2236.8	2239.1	2241.4	2241.4	2243.7	2241.4
22.5°	2216.2	2216.2	2216.2	2218.5	2218.5	2218.5	2220.8	2223.1	2223.1	2225.4	2223.1
25°	2191.1	2191.1	2193.4	2193.4	2195.7	2195.7	2197.9	2197.9	2197.9	2200.2	2200.2
27.5°	2165.9	2163.6	2168.2	2168.2	2170.5	2170.5	2172.8	2175.1	2175.1	2175.1	2177.4
30°	2138.5	2138.5	2140.8	2140.8	2143.0	2145.3	2147.6	2149.9	2149.9	2152.2	2152.2
32.5°	2108.7	2111.0	2113.3	2115.6	2117.9	2122.5	2124.8	2127.0	2129.3	2131.6	2129.3
35°	2088.2	2090.4	2092.7	2097.3	2104.2	2108.7	2113.3	2117.9	2120.2	2120.2	2120.2
37.5°	2092.7	2095.0	2099.6	2108.7	2120.2	2127.0	2136.2	2143.0	2145.3	2147.6	2147.6
40°	2117.9	2122.5	2129.3	2140.8	2154.5	2165.9	2179.6	2186.5	2191.1	2193.4	2191.1
42.5°	2115.6	2122.5	2129.3	2143.0	2159.1	2170.5	2184.2	2191.1	2195.7	2197.9	2195.7
45°	2108.7	2113.3	2120.2	2133.9	2145.3	2161.3	2175.1	2181.9	2188.8	2191.1	2188.8
47.5°	2092.7	2092.7	2095.0	2108.7	2124.8	2145.3	2156.8	2168.2	2175.1	2175.1	2175.1
50°	2072.1	2081.3	2085.9	2104.2	2120.2	2138.5	2159.1	2175.1	2177.4	2179.6	2177.4
52.5°	2072.1	2074.4	2090.4	2101.9	2133.9	2161.3	2181.9	2197.9	2211.7	2213.9	2213.9
55°	2108.7	2113.3	2122.5	2149.9	2175.1	2216.2	2250.5	2264.3	2273.4	2282.6	2273.4
57.5°	2111.0	2127.0	2143.0	2175.1	2213.9	2248.3	2278.0	2303.1	2310.0	2326.0	2307.7
60°	2083.6	2088.2	2104.2	2143.0	2193.4	2230.0	2257.4	2280.3	2303.1	2294.0	2303.1
62.5°	2040.1	2051.6	2074.4	2104.2	2145.3	2188.8	2230.0	2236.8	2271.1	2262.0	2275.7
65°	2005.8	2015.0	2037.8	2081.3	2131.6	2159.1	2204.8	2232.2	2230.0	2248.3	2227.7
67.5°	1921.2	1928.1	1948.6	1992.1	2040.1	2081.3	2095.0	2138.5	2143.0	2168.2	2145.3
70°	1781.7	1797.7	1827.4	1868.6	1907.5	1941.8	1966.9	1989.8	2003.5	2008.1	2003.5
72.5°	1607.9	1633.0	1655.9	1694.8	1733.7	1756.5	1772.5	1804.6	1813.7	1827.4	1822.8
75°	1429.5	1429.5	1452.3	1482.1	1511.8	1525.5	1534.7	1555.3	1566.7	1582.7	1569.0
77.5°	1184.7	1198.5	1219.0	1244.2	1239.6	1246.5	1246.5	1257.9	1253.4	1264.8	1273.9
80°	928.6	942.3	960.6	978.9	976.6	960.6	972.0	958.3	953.7	956.0	962.9
82.5°	663.3	672.4	688.4	699.9	699.9	688.4	693.0	679.3	683.9	672.4	681.6
85°	379.7	391.1	402.5	414.0	414.0	407.1	414.0	395.7	398.0	398.0	398.0
87.5°	93.8	102.9	107.5	114.4	109.8	121.2	128.1	116.6	118.9	114.4	121.2
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°	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8
2.5°	2252.8	2250.5	2252.8	2252.8	2252.8	2252.8	2250.5	2250.5
5°	2252.8	2252.8	2252.8	2250.5	2250.5	2250.5	2250.5	2250.5
7.5°	2248.3	2248.3	2248.3	2246.0	2246.0	2246.0	2246.0	2246.0
10°	2243.7	2243.7	2241.4	2241.4	2241.4	2241.4	2241.4	2241.4
12.5°	2239.1	2239.1	2236.8	2236.8	2236.8	2236.8	2236.8	2234.5
15°	2234.5	2234.5	2232.2	2232.2	2230.0	2230.0	2227.7	2227.7
17.5°	2234.5	2232.2	2230.0	2227.7	2227.7	2225.4	2223.1	2223.1
20°	2241.4	2239.1	2236.8	2234.5	2232.2	2230.0	2230.0	2227.7
22.5°	2223.1	2220.8	2218.5	2218.5	2216.2	2216.2	2216.2	2213.9
25°	2200.2	2197.9	2197.9	2193.4	2193.4	2191.1	2191.1	2188.8
27.5°	2175.1	2172.8	2172.8	2170.5	2168.2	2165.9	2163.6	2163.6
30°	2149.9	2147.6	2147.6	2145.3	2140.8	2140.8	2138.5	2136.2
32.5°	2127.0	2127.0	2124.8	2120.2	2115.6	2113.3	2108.7	2108.7
35°	2120.2	2115.6	2111.0	2104.2	2097.3	2092.7	2090.4	2088.2
37.5°	2145.3	2138.5	2127.0	2120.2	2111.0	2101.9	2097.3	2092.7
40°	2188.8	2177.4	2165.9	2154.5	2140.8	2129.3	2120.2	2117.9
42.5°	2191.1	2184.2	2172.8	2159.1	2143.0	2129.3	2120.2	2117.9
45°	2184.2	2175.1	2161.3	2145.3	2133.9	2117.9	2111.0	2108.7
47.5°	2168.2	2159.1	2145.3	2122.5	2106.5	2095.0	2092.7	2092.7
50°	2177.4	2159.1	2136.2	2122.5	2106.5	2088.2	2081.3	2076.7
52.5°	2197.9	2179.6	2165.9	2136.2	2101.9	2085.9	2076.7	2069.9
55°	2264.3	2255.1	2213.9	2172.8	2147.6	2127.0	2117.9	2113.3
57.5°	2307.7	2275.7	2241.4	2213.9	2184.2	2149.9	2127.0	2115.6
60°	2284.9	2250.5	2234.5	2197.9	2136.2	2099.6	2085.9	2079.0
62.5°	2234.5	2234.5	2191.1	2133.9	2111.0	2079.0	2053.9	2044.7
65°	2232.2	2202.5	2159.1	2138.5	2083.6	2035.6	2010.4	2005.8
67.5°	2136.2	2095.0	2083.6	2037.8	1992.1	1948.6	1930.3	1921.2
70°	1989.8	1976.1	1941.8	1912.0	1870.9	1825.1	1800.0	1790.8
72.5°	1804.6	1781.7	1765.7	1740.5	1701.6	1644.5	1623.9	1612.4
75°	1553.0	1541.5	1541.5	1514.1	1477.5	1443.2	1440.9	1436.3
77.5°	1248.8	1253.4	1264.8	1235.1	1246.5	1228.2	1212.2	1200.7
80°	949.2	969.7	972.0	978.9	985.8	960.6	949.2	935.4
82.5°	674.7	686.1	699.9	702.2	706.7	688.4	679.3	665.6
85°	398.0	404.8	416.3	416.3	416.3	400.2	395.7	384.2
87.5°	116.6	116.6	123.5	116.6	116.6	116.6	105.2	112.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)