

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: P197936

Luminaire Tested: **TT-C5-LED-E1-WQ-SG-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115543)  
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-WQ-SG-7060  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS  
Light Source: (160) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8247.8 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

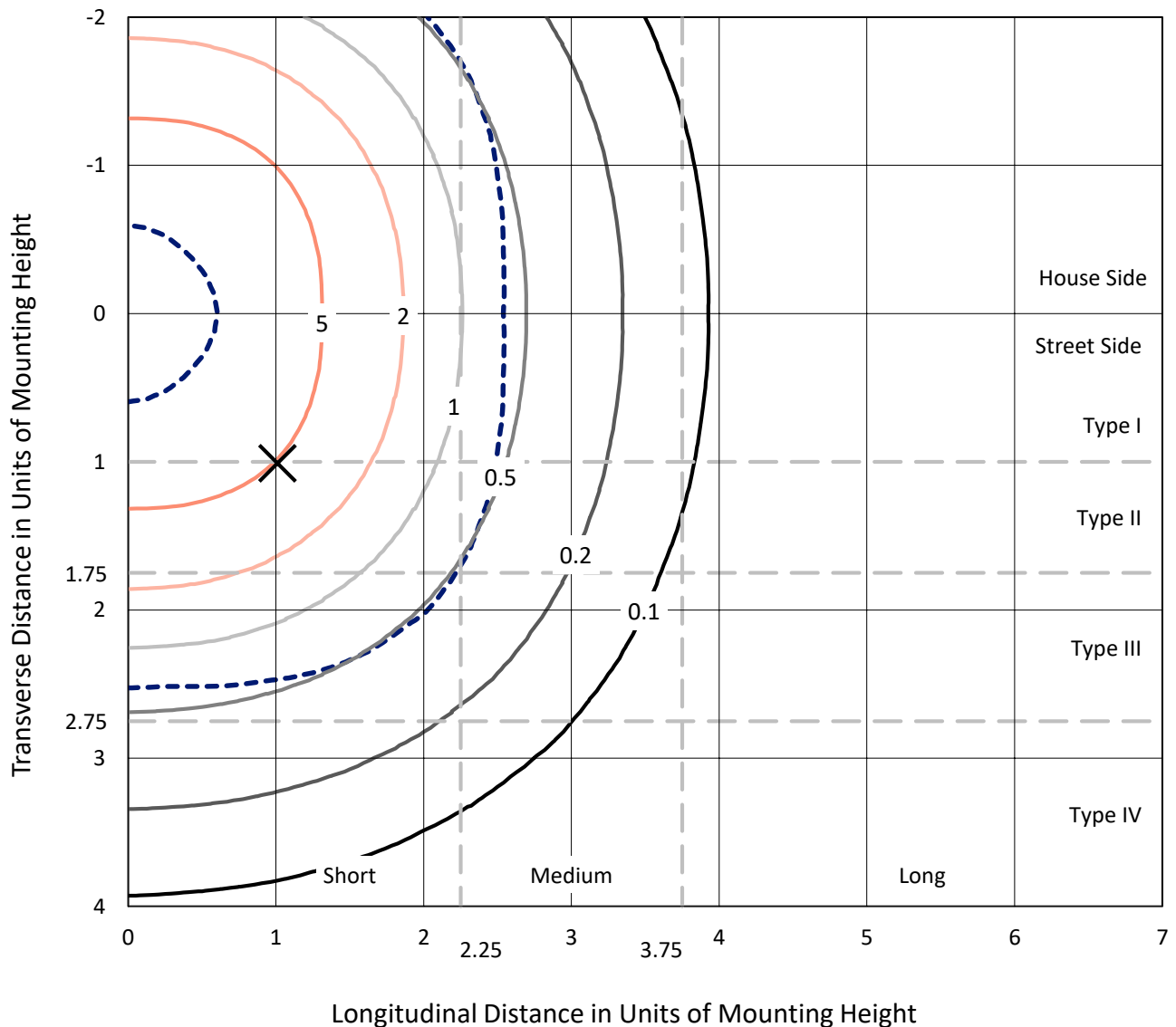
Input Watts (W): 77  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

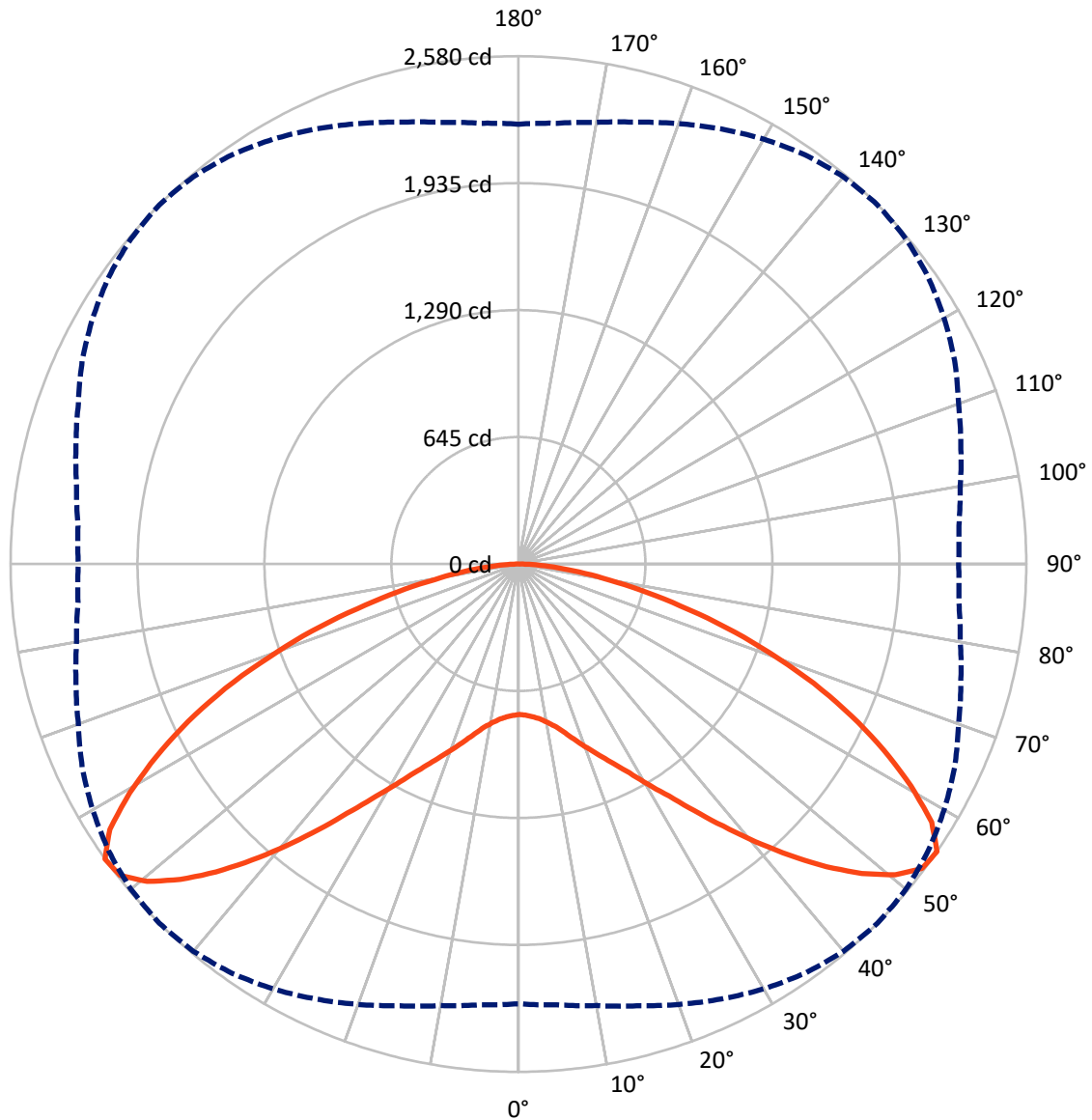
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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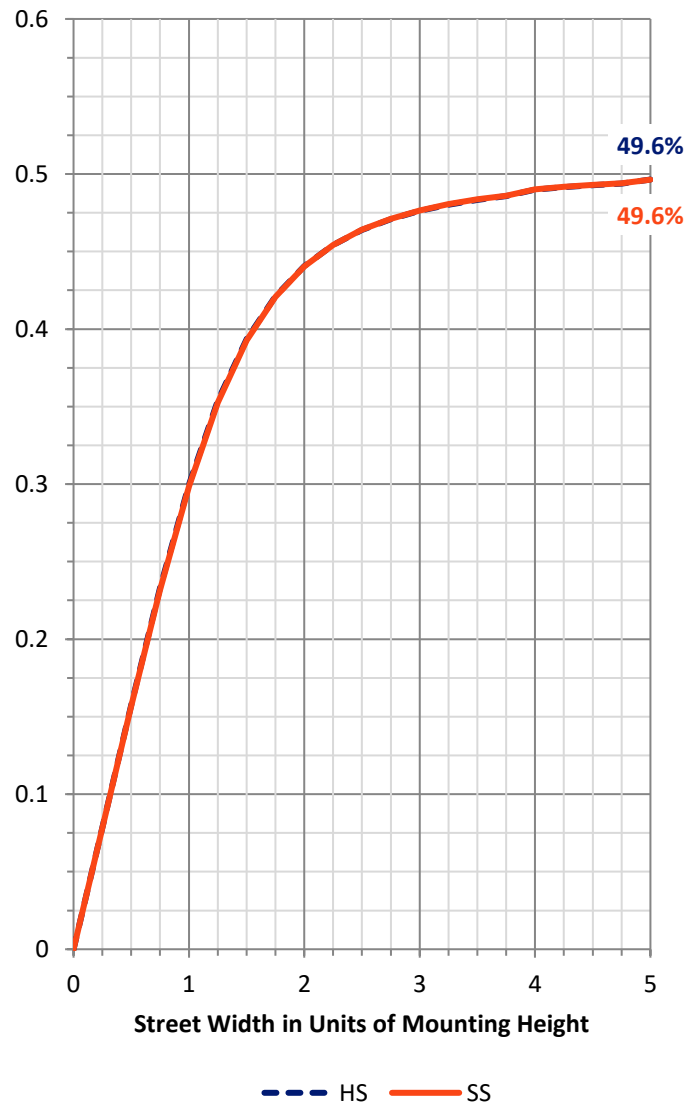
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4123.9	0.0	4123.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4123.9	0.0	4123.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8247.8	0.0	8247.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.5	0.9
10°-20°	256.0	3.1
20°-30°	521.4	6.3
30°-40°	952.1	11.5
40°-50°	1616.7	19.6
50°-60°	2105.4	25.5
60°-70°	1702.8	20.6
70°-80°	836.7	10.1
80°-90°	181.1	2.2
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°	8247.8	100.0
0°-180°	8247.8	100.0



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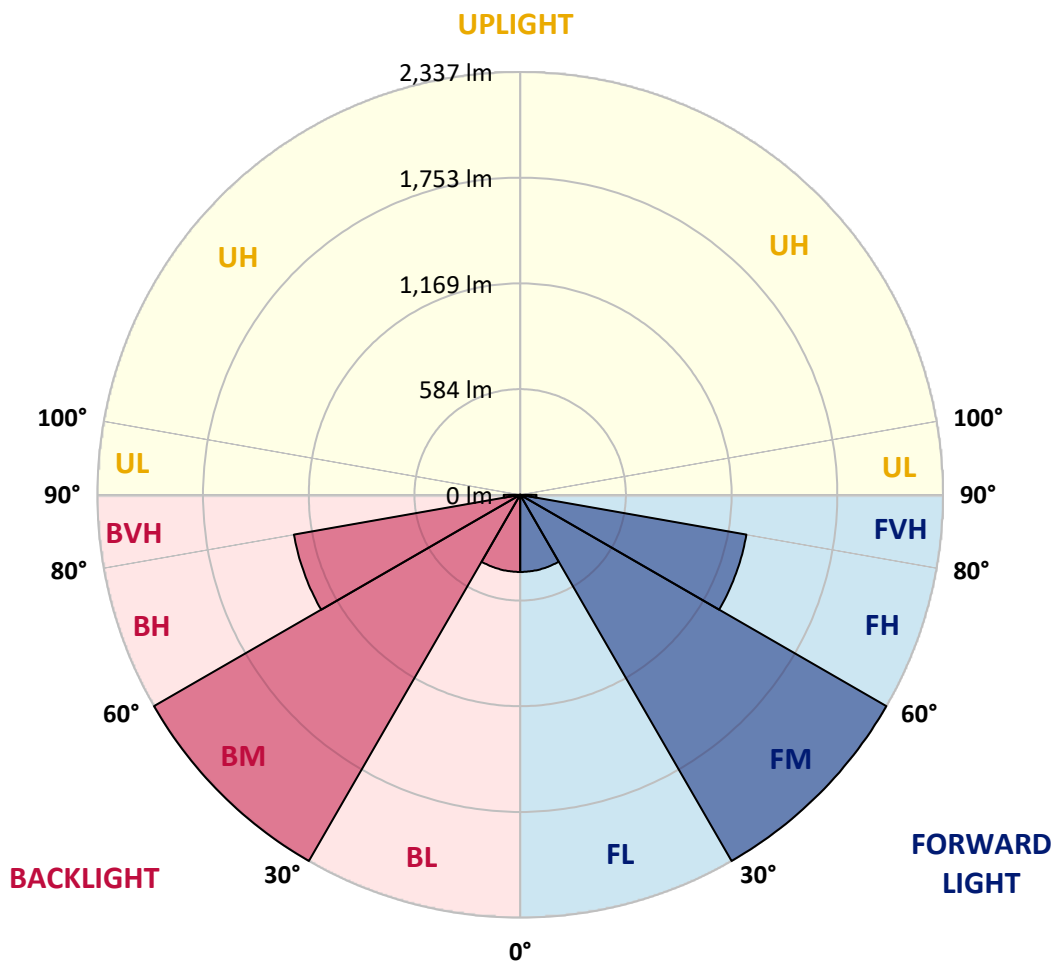
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	426.5	5.2			
FM	(30°-60°)	2337.1	28.3			
FH	(60°-80°)	1269.8	15.4			G1/1800
FVH	(80°-90°)	90.6	1.1			G1/100
BL	(0°-30°)	426.5	5.2	B1/500		
BM	(30°-60°)	2337.1	28.3	B2/2500		
BH	(60°-80°)	1269.8	15.4	B3/2500		G1/1800
BVH	(80°-90°)	90.6	1.1			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°	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2
2.5°	767.6	767.6	767.6	767.6	767.6	767.6	769.3	769.3	769.3	769.3	769.3
5°	777.7	777.7	777.7	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4
7.5°	792.9	791.2	792.9	792.9	792.9	794.6	794.6	792.9	794.6	794.6	794.6
10°	814.8	813.2	814.8	814.8	814.8	816.5	816.5	816.5	816.5	818.2	818.2
12.5°	846.9	845.2	846.9	848.6	846.9	848.6	848.6	848.6	848.6	848.6	848.6
15°	887.4	885.7	887.4	889.1	887.4	890.8	890.8	889.1	889.1	890.8	890.8
17.5°	936.3	932.9	934.6	936.3	936.3	939.7	939.7	938.0	939.7	941.4	939.7
20°	986.9	983.6	985.2	990.3	990.3	992.0	995.4	993.7	995.4	997.0	995.4
22.5°	1042.6	1040.9	1042.6	1047.7	1047.7	1049.3	1054.4	1054.4	1054.4	1056.1	1054.4
25°	1103.3	1101.6	1103.3	1108.4	1108.4	1111.8	1118.5	1118.5	1120.2	1121.9	1120.2
27.5°	1174.2	1172.5	1175.9	1180.9	1182.6	1187.7	1196.1	1197.8	1199.5	1201.2	1197.8
30°	1256.9	1253.5	1258.5	1267.0	1270.4	1277.1	1287.2	1290.6	1292.3	1297.3	1294.0
32.5°	1351.3	1348.0	1354.7	1364.8	1369.9	1380.0	1393.5	1396.9	1401.9	1405.3	1400.3
35°	1462.7	1461.0	1467.7	1482.9	1491.4	1503.2	1521.7	1526.8	1530.2	1536.9	1530.2
37.5°	1585.8	1584.1	1596.0	1612.8	1628.0	1646.6	1666.8	1675.2	1680.3	1688.7	1680.3
40°	1722.5	1720.8	1736.0	1756.2	1774.8	1798.4	1823.7	1835.5	1845.6	1854.1	1844.0
42.5°	1862.5	1862.5	1881.1	1903.0	1930.0	1958.7	1987.4	2000.8	2017.7	2022.8	2011.0
45°	1997.5	1999.2	2017.7	2044.7	2083.5	2120.6	2152.7	2169.6	2188.1	2193.2	2178.0
47.5°	2125.7	2127.4	2144.2	2179.7	2223.5	2265.7	2304.5	2328.1	2346.7	2348.4	2336.6
50°	2230.3	2237.0	2259.0	2291.0	2336.6	2380.4	2427.7	2458.0	2476.6	2481.7	2469.8
52.5°	2270.8	2282.6	2307.9	2348.4	2400.7	2446.2	2498.5	2537.3	2559.3	2567.7	2557.6
55°	2233.7	2247.2	2277.5	2323.1	2380.4	2437.8	2491.8	2537.3	2567.7	2579.5	2569.4
57.5°	2151.0	2152.7	2183.0	2228.6	2280.9	2339.9	2392.2	2434.4	2463.1	2474.9	2473.2
60°	2007.6	2007.6	2036.3	2080.1	2120.6	2181.4	2225.2	2257.3	2277.5	2291.0	2287.6
62.5°	1815.3	1815.3	1840.6	1886.1	1926.6	1978.9	2021.1	2054.8	2068.3	2083.5	2086.9
65°	1601.0	1601.0	1624.6	1670.2	1707.3	1754.5	1795.0	1827.1	1840.6	1859.1	1855.8
67.5°	1373.3	1371.6	1393.5	1432.3	1467.7	1511.6	1550.4	1580.8	1596.0	1617.9	1602.7
70°	1138.8	1138.8	1157.3	1187.7	1213.0	1256.9	1294.0	1324.3	1336.1	1354.7	1346.3
72.5°	916.1	914.4	929.6	953.2	973.4	1012.2	1034.2	1067.9	1078.0	1103.3	1089.8
75°	715.3	711.9	723.7	740.6	754.1	779.4	796.3	823.3	831.7	848.6	841.8
77.5°	538.2	536.5	541.5	553.4	563.5	583.7	590.5	604.0	610.7	627.6	614.1
80°	386.3	381.3	386.3	393.1	396.5	411.6	413.3	418.4	421.8	433.6	420.1
82.5°	259.8	253.1	256.4	261.5	261.5	269.9	271.6	269.9	276.7	280.1	273.3
85°	148.5	143.4	145.1	148.5	146.8	151.8	151.8	150.1	155.2	155.2	151.8
87.5°	48.9	45.6	47.2	48.9	48.9	50.6	52.3	50.6	54.0	54.0	50.6
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°	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2
2.5°	769.3	769.3	769.3	769.3	769.3	769.3	769.3	769.3
5°	779.4	779.4	779.4	779.4	779.4	777.7	777.7	777.7
7.5°	794.6	794.6	794.6	794.6	794.6	792.9	792.9	792.9
10°	818.2	816.5	816.5	816.5	816.5	814.8	816.5	814.8
12.5°	848.6	850.3	850.3	848.6	850.3	846.9	846.9	846.9
15°	890.8	889.1	889.1	889.1	889.1	887.4	887.4	887.4
17.5°	938.0	938.0	936.3	936.3	934.6	932.9	932.9	932.9
20°	993.7	992.0	990.3	988.6	986.9	983.6	981.9	981.9
22.5°	1051.0	1049.3	1047.7	1046.0	1044.3	1040.9	1037.5	1037.5
25°	1115.1	1111.8	1110.1	1106.7	1103.3	1100.0	1098.3	1096.6
27.5°	1192.7	1189.4	1184.3	1179.3	1172.5	1170.8	1167.4	1167.4
30°	1285.5	1280.5	1273.7	1265.3	1258.5	1251.8	1248.4	1246.7
32.5°	1393.5	1386.8	1374.9	1364.8	1353.0	1346.3	1341.2	1337.8
35°	1520.0	1509.9	1496.4	1481.2	1466.1	1454.2	1445.8	1445.8
37.5°	1668.5	1653.3	1633.1	1614.5	1592.6	1579.1	1569.0	1562.2
40°	1830.5	1808.5	1783.2	1759.6	1734.3	1715.7	1700.6	1702.2
42.5°	1990.7	1972.2	1941.8	1913.1	1881.1	1855.8	1837.2	1835.5
45°	2159.4	2135.8	2098.7	2061.6	2024.5	1994.1	1972.2	1968.8
47.5°	2316.3	2291.0	2247.2	2201.6	2161.1	2127.4	2103.8	2100.4
50°	2444.5	2414.2	2368.6	2319.7	2275.8	2238.7	2213.4	2206.7
52.5°	2527.2	2493.5	2444.5	2385.5	2338.3	2296.1	2265.7	2257.3
55°	2540.7	2496.8	2444.5	2378.7	2326.4	2279.2	2245.5	2235.3
57.5°	2447.9	2400.7	2353.4	2296.1	2243.8	2193.2	2166.2	2152.7
60°	2267.4	2230.3	2191.5	2139.2	2097.0	2049.8	2027.8	2021.1
62.5°	2059.9	2027.8	1992.4	1938.4	1903.0	1860.8	1840.6	1832.1
65°	1837.2	1800.1	1766.3	1722.5	1683.7	1648.3	1619.6	1616.2
67.5°	1590.9	1552.1	1523.4	1484.6	1445.8	1412.1	1393.5	1383.4
70°	1331.1	1299.0	1270.4	1228.2	1202.9	1170.8	1157.3	1147.2
72.5°	1073.0	1054.4	1019.0	992.0	963.3	938.0	929.6	919.4
75°	830.0	808.1	781.1	764.2	742.3	728.8	722.1	715.3
77.5°	609.0	590.5	575.3	568.5	558.4	544.9	539.9	534.8
80°	421.8	413.3	403.2	401.5	394.8	384.6	383.0	381.3
82.5°	273.3	268.2	264.9	264.9	261.5	254.7	253.1	253.1
85°	151.8	150.1	151.8	150.1	146.8	143.4	143.4	143.4
87.5°	50.6	50.6	52.3	54.0	48.9	48.9	47.2	47.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)