

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: P197766

Luminaire Tested: **TT-C5-LED-E1-WQ-MS/DIM**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197766  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115468)  
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-MS/DIM  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
WIDE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR  
Light Source: (160) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8674.3 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

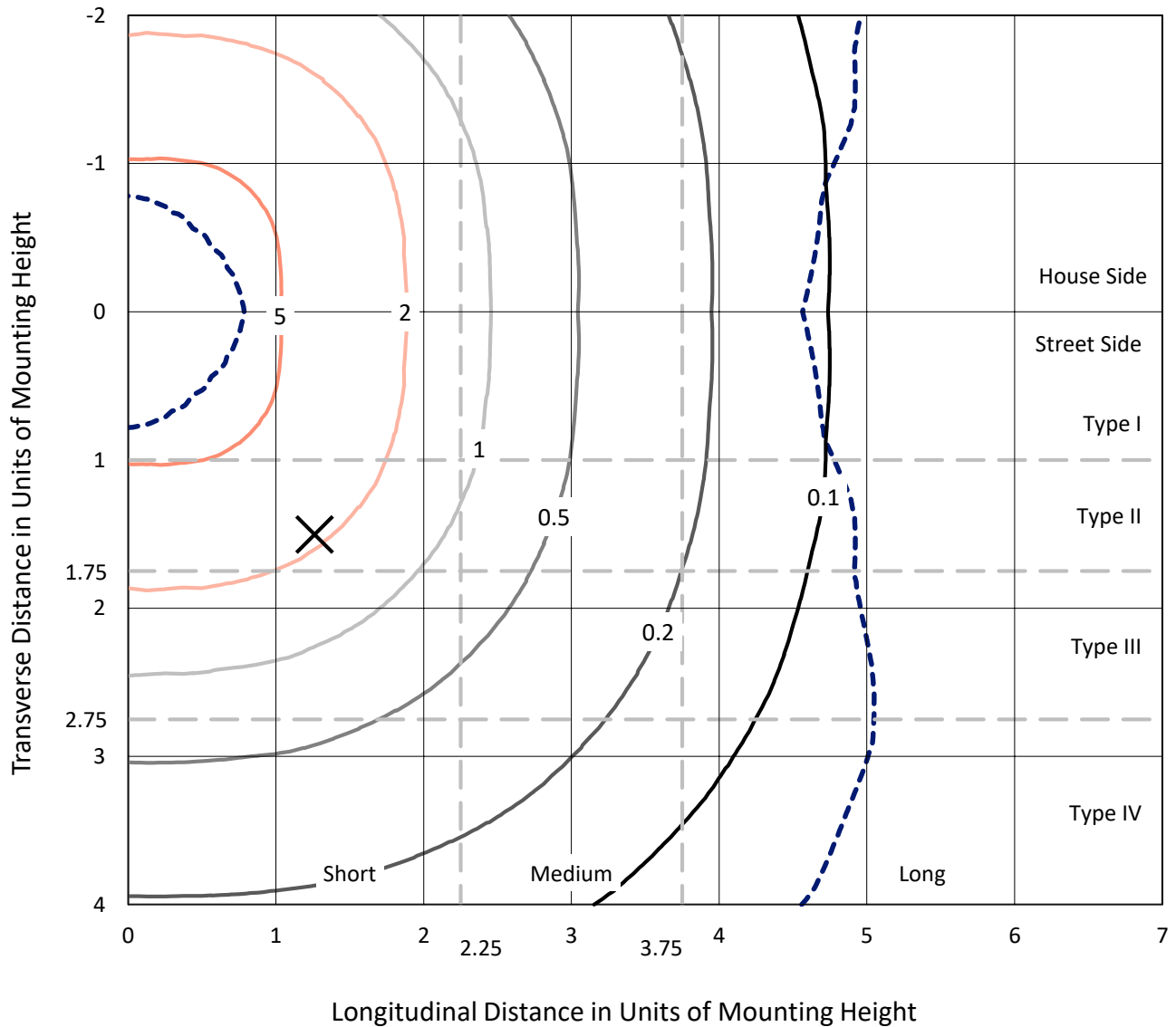
Input Watts (W): 77  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

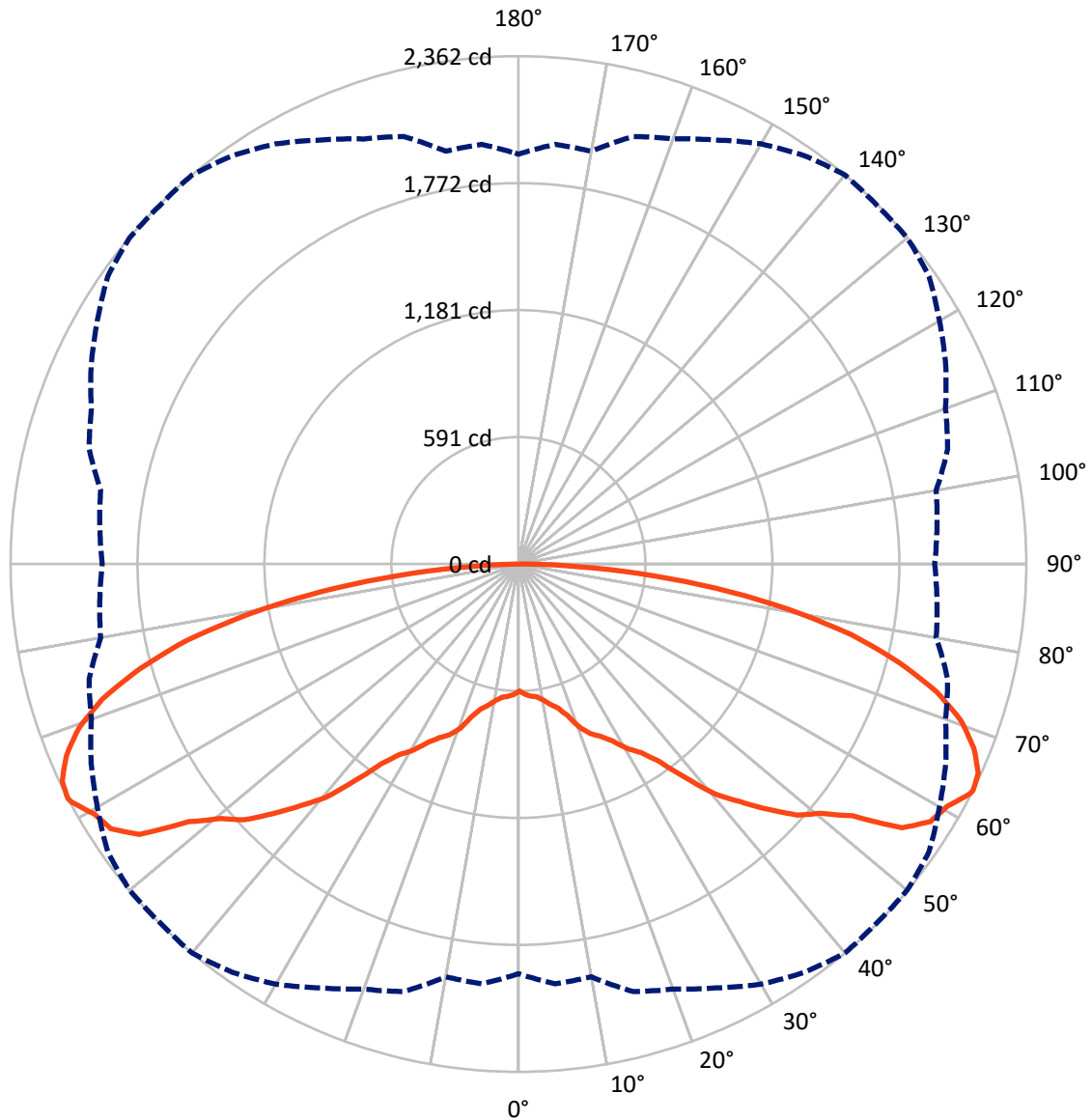
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4337.1	0.0	4337.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4337.1	0.0	4337.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8674.3	0.0	8674.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.6	0.7
10°-20°	202.6	2.3
20°-30°	412.0	4.7
30°-40°	710.1	8.2
40°-50°	1196.1	13.8
50°-60°	1761.3	20.3
60°-70°	2094.5	24.1
70°-80°	1695.6	19.5
80°-90°	542.5	6.3
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°	8674.3	100.0
0°-180°	8674.3	100.0



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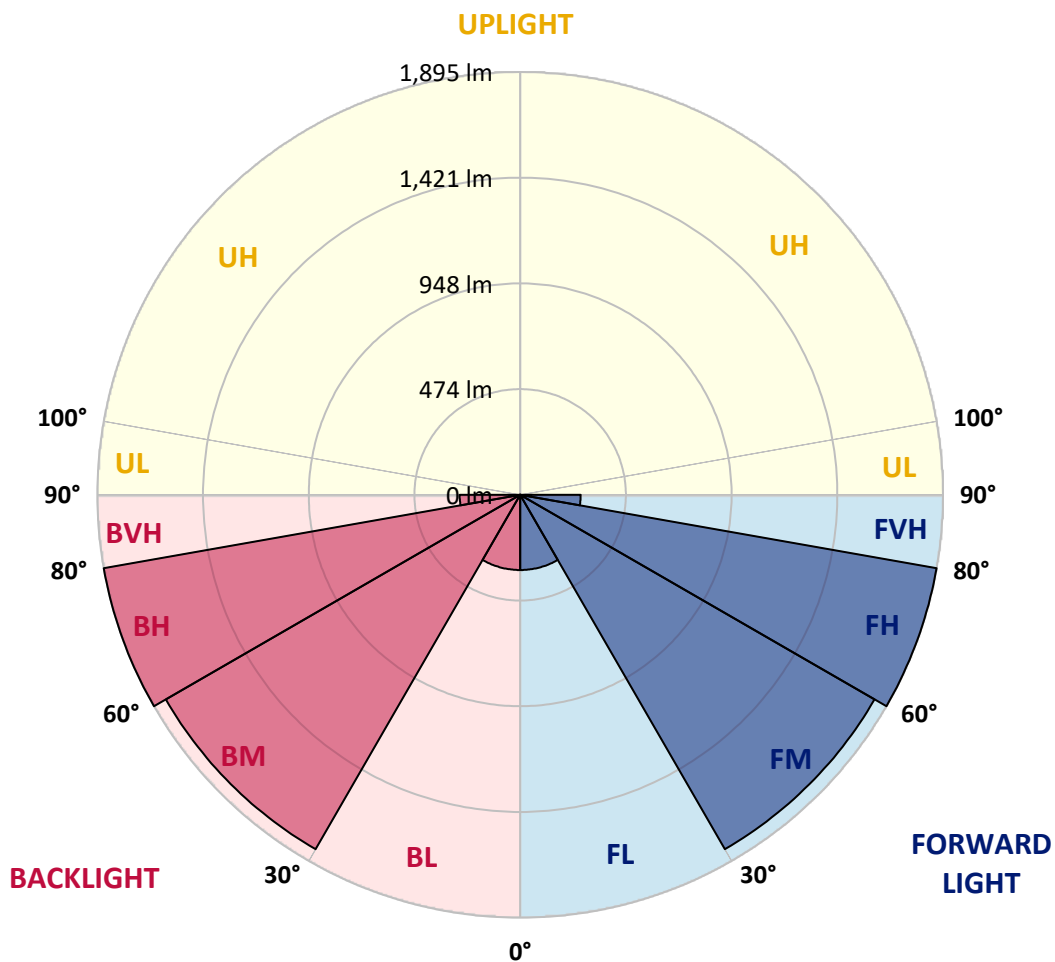
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	337.1	3.9			
FM	(30°-60°)	1833.7	21.1			
FH	(60°-80°)	1895.0	21.8			G2/5000
FVH	(80°-90°)	271.2	3.1			G3/500
BL	(0°-30°)	337.1	3.9	B1/500		
BM	(30°-60°)	1833.7	21.1	B2/2500		
BH	(60°-80°)	1895.0	21.8	B3/2500		G2/5000
BVH	(80°-90°)	271.2	3.1			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°	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5
2.5°	609.1	609.1	609.1	609.1	609.1	609.1	607.3	609.1	607.3	607.3	607.3
5°	620.7	620.7	620.7	620.7	619.2	619.2	617.5	617.5	617.5	615.7	617.5
7.5°	625.9	625.9	625.9	625.9	624.2	624.2	624.2	624.2	624.2	624.2	624.2
10°	637.5	637.5	639.3	641.0	644.2	644.2	644.2	646.0	644.2	644.2	644.2
12.5°	662.8	661.1	664.5	667.7	671.2	672.7	672.7	672.7	671.2	671.2	672.7
15°	698.0	694.7	696.2	698.0	699.7	701.4	701.4	699.7	696.2	696.2	696.2
17.5°	743.3	738.3	736.6	734.8	734.8	738.3	741.5	740.0	741.5	740.0	741.5
20°	797.0	793.5	793.5	793.5	795.3	801.9	808.6	812.1	810.4	807.1	812.1
22.5°	832.2	833.9	842.3	840.6	838.8	845.5	853.9	860.6	857.4	852.4	855.7
25°	870.8	870.8	882.6	887.6	882.6	882.6	885.9	890.8	887.6	884.2	887.6
27.5°	914.4	914.4	919.5	924.5	921.0	921.0	926.2	934.6	932.9	931.2	932.9
30°	966.4	959.7	954.7	963.1	971.5	973.2	978.2	991.6	995.0	993.3	996.6
32.5°	1015.1	1005.0	1008.4	1013.4	1031.9	1038.6	1036.9	1047.0	1045.3	1040.3	1047.0
35°	1062.1	1073.8	1080.5	1090.6	1097.3	1105.7	1105.7	1124.1	1127.5	1122.5	1127.5
37.5°	1152.7	1157.7	1176.2	1177.8	1186.2	1218.1	1221.4	1246.6	1260.0	1253.3	1255.0
40°	1276.8	1275.1	1288.6	1308.7	1325.5	1365.7	1377.5	1394.2	1406.0	1401.0	1407.7
42.5°	1377.5	1364.2	1374.1	1417.7	1436.2	1466.4	1481.5	1489.9	1511.7	1505.0	1513.5
45°	1449.6	1454.6	1468.2	1511.7	1523.4	1548.6	1583.8	1598.9	1627.4	1619.2	1624.1
47.5°	1520.1	1543.7	1555.3	1575.4	1612.3	1645.9	1689.5	1704.6	1745.0	1741.5	1736.6
50°	1612.3	1630.8	1644.2	1659.3	1709.8	1765.0	1801.9	1808.6	1822.2	1812.1	1828.9
52.5°	1711.3	1709.8	1721.5	1763.3	1833.9	1855.7	1887.6	1917.8	1946.3	1956.4	1946.3
55°	1842.3	1800.2	1849.0	1909.4	1939.6	1991.6	2068.8	2110.7	2166.1	2174.5	2157.7
57.5°	1896.0	1896.0	1946.3	1981.4	2036.9	2129.2	2211.4	2231.5	2260.0	2244.9	2261.7
60°	1889.3	1953.0	1953.0	2015.1	2105.7	2187.9	2218.1	2251.6	2290.2	2288.6	2288.6
62.5°	1897.7	1959.7	1942.8	2050.3	2105.7	2172.8	2239.9	2302.0	2355.7	2354.0	2352.3
63°	1905.9	1959.7	1949.7	2058.7	2104.0	2176.1	2256.7	2318.7	2362.4	2359.0	2360.7
65°	1931.2	1916.1	1976.5	2045.3	2097.3	2204.7	2271.8	2320.4	2350.6	2348.9	2348.9
67.5°	1884.1	1849.0	1934.6	1961.4	2060.4	2156.0	2208.0	2263.4	2285.2	2285.2	2281.8
70°	1740.0	1754.9	1813.8	1857.4	1957.9	2043.6	2087.2	2157.7	2184.5	2184.5	2182.9
72.5°	1593.9	1619.2	1659.3	1721.5	1817.0	1884.1	1936.1	2000.0	2035.2	2033.4	2033.4
75°	1407.7	1431.3	1478.1	1537.0	1620.7	1686.3	1728.1	1788.6	1828.9	1844.0	1827.2
77.5°	1198.0	1204.7	1248.3	1308.7	1382.5	1427.8	1491.7	1550.4	1583.8	1582.1	1577.1
80°	943.0	951.3	988.3	1057.0	1097.3	1151.0	1209.7	1241.6	1270.1	1270.1	1266.7
82.5°	650.9	669.5	706.4	751.7	793.5	840.6	872.5	904.4	927.9	926.2	921.0
85°	367.4	375.8	411.0	439.7	471.4	501.6	523.4	543.7	563.7	563.7	560.3
87.5°	110.7	99.0	119.1	130.9	147.6	162.7	172.8	192.9	206.5	191.3	191.3
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°	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5
2.5°	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1
5°	617.5	619.2	619.2	620.7	620.7	620.7	620.7	620.7
7.5°	624.2	624.2	624.2	624.2	625.9	625.9	625.9	625.9
10°	644.2	646.0	644.2	644.2	641.0	639.3	639.3	639.3
12.5°	672.7	674.4	674.4	671.2	667.7	664.5	662.8	661.1
15°	699.7	704.6	701.4	699.7	696.2	698.0	698.0	699.7
17.5°	741.5	743.3	738.3	734.8	733.1	736.6	740.0	741.5
20°	813.8	810.4	800.4	797.0	793.5	793.5	797.0	797.0
22.5°	859.1	850.7	844.0	840.6	840.6	840.6	835.6	828.9
25°	890.8	885.9	880.9	884.2	887.6	882.6	870.8	869.0
27.5°	934.6	924.5	922.8	921.0	922.8	919.5	917.8	911.1
30°	991.6	978.2	974.8	971.5	961.4	958.1	961.4	966.4
32.5°	1045.3	1036.9	1040.3	1033.5	1015.1	1008.4	1011.7	1010.1
35°	1122.5	1107.4	1107.4	1093.9	1088.9	1087.2	1073.8	1062.1
37.5°	1244.9	1224.8	1219.8	1189.6	1176.2	1179.5	1161.1	1147.6
40°	1394.2	1379.3	1365.7	1332.2	1313.7	1290.2	1278.5	1278.5
42.5°	1493.2	1483.3	1464.7	1441.2	1421.1	1380.8	1365.7	1374.1
45°	1602.4	1589.0	1550.4	1526.8	1508.3	1479.8	1463.0	1446.4
47.5°	1713.0	1694.7	1649.4	1619.2	1575.4	1567.0	1548.6	1525.1
50°	1810.3	1803.7	1771.7	1721.5	1666.0	1652.6	1635.8	1614.0
52.5°	1929.4	1889.3	1862.3	1840.6	1778.4	1734.8	1711.3	1721.5
55°	2124.1	2073.8	2005.0	1936.1	1922.8	1870.8	1812.1	1844.0
57.5°	2236.5	2208.0	2156.0	2047.0	1993.3	1957.9	1919.5	1890.8
60°	2263.4	2211.4	2199.6	2117.4	2031.9	1957.9	1973.0	1905.9
62.5°	2315.4	2244.9	2179.5	2114.1	2062.1	1961.4	1957.9	1922.8
63°	2332.2	2261.7	2192.9	2114.1	2067.1	1973.0	1954.7	1936.1
65°	2328.8	2268.4	2216.4	2114.1	2043.6	2006.7	1916.1	1957.9
67.5°	2265.1	2214.7	2154.3	2083.9	1966.3	1937.9	1874.2	1882.6
70°	2162.7	2097.3	2040.3	1974.8	1880.9	1815.3	1776.9	1745.0
72.5°	2003.2	1944.5	1884.1	1823.7	1740.0	1661.0	1634.3	1598.9
75°	1792.0	1734.8	1679.6	1622.4	1543.7	1473.1	1444.6	1419.4
77.5°	1550.4	1501.6	1422.8	1369.1	1323.8	1248.3	1221.4	1194.6
80°	1236.5	1213.1	1156.0	1085.6	1062.1	988.3	968.1	932.9
82.5°	899.3	875.7	830.4	781.9	753.4	714.8	681.1	657.6
85°	548.6	523.4	499.9	456.3	439.7	411.0	384.2	370.9
87.5°	198.0	177.8	159.4	139.2	129.2	109.0	105.7	95.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)