

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: LUMARK

Report Number: P290543

Luminaire Tested: **AXCS4A-GRF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-095-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: AXCS4A-GRF  
Description: 4A AXCENT SMALL LED WALLPACK WITH 4000K CCT AND 70 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4876.9 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

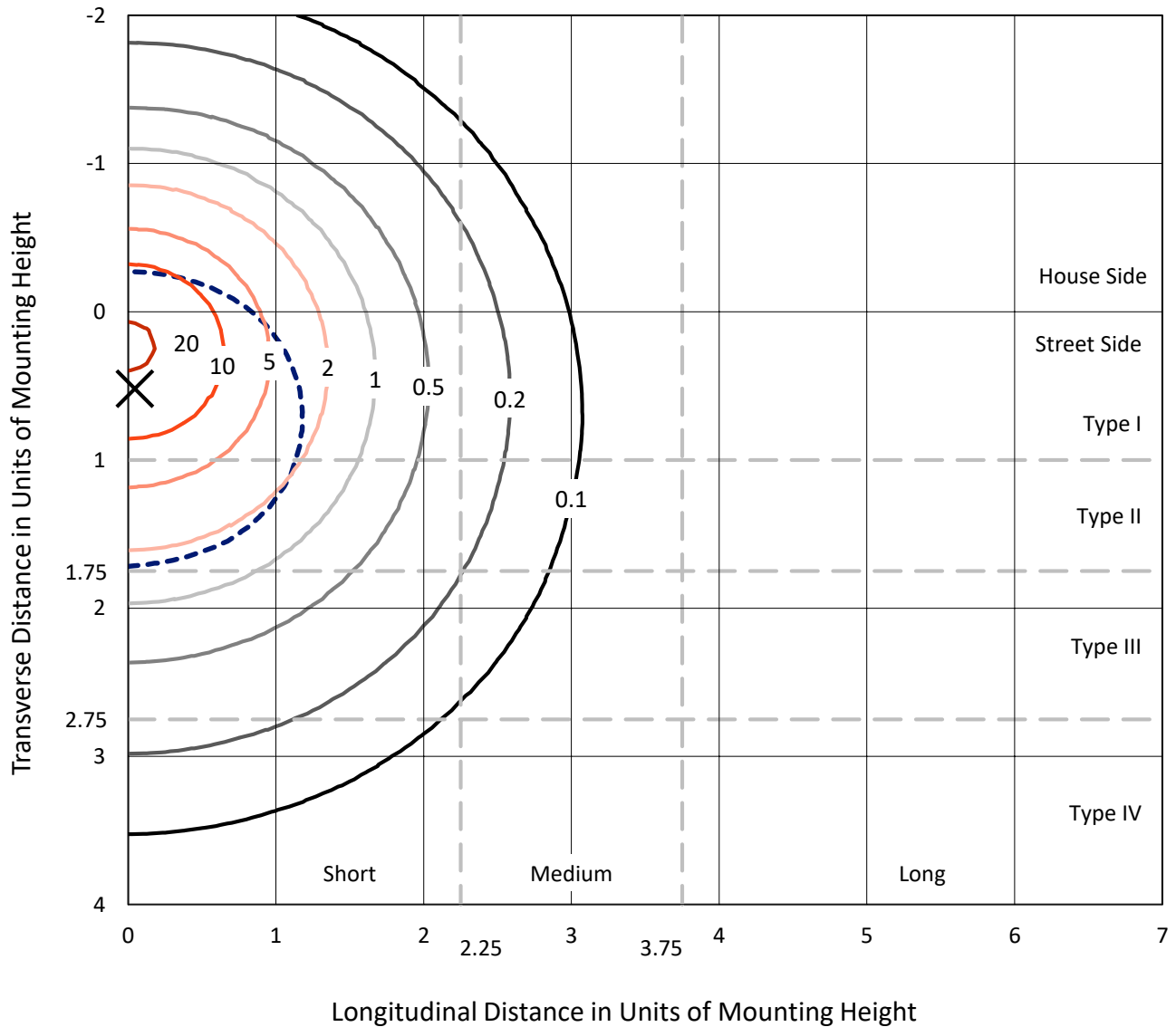
Input Watts (W): 43.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P290543  
 CATALOG NUMBER: AXCS4A-GRF

### Iso-Footcandle Lines of Horizontal Illumination

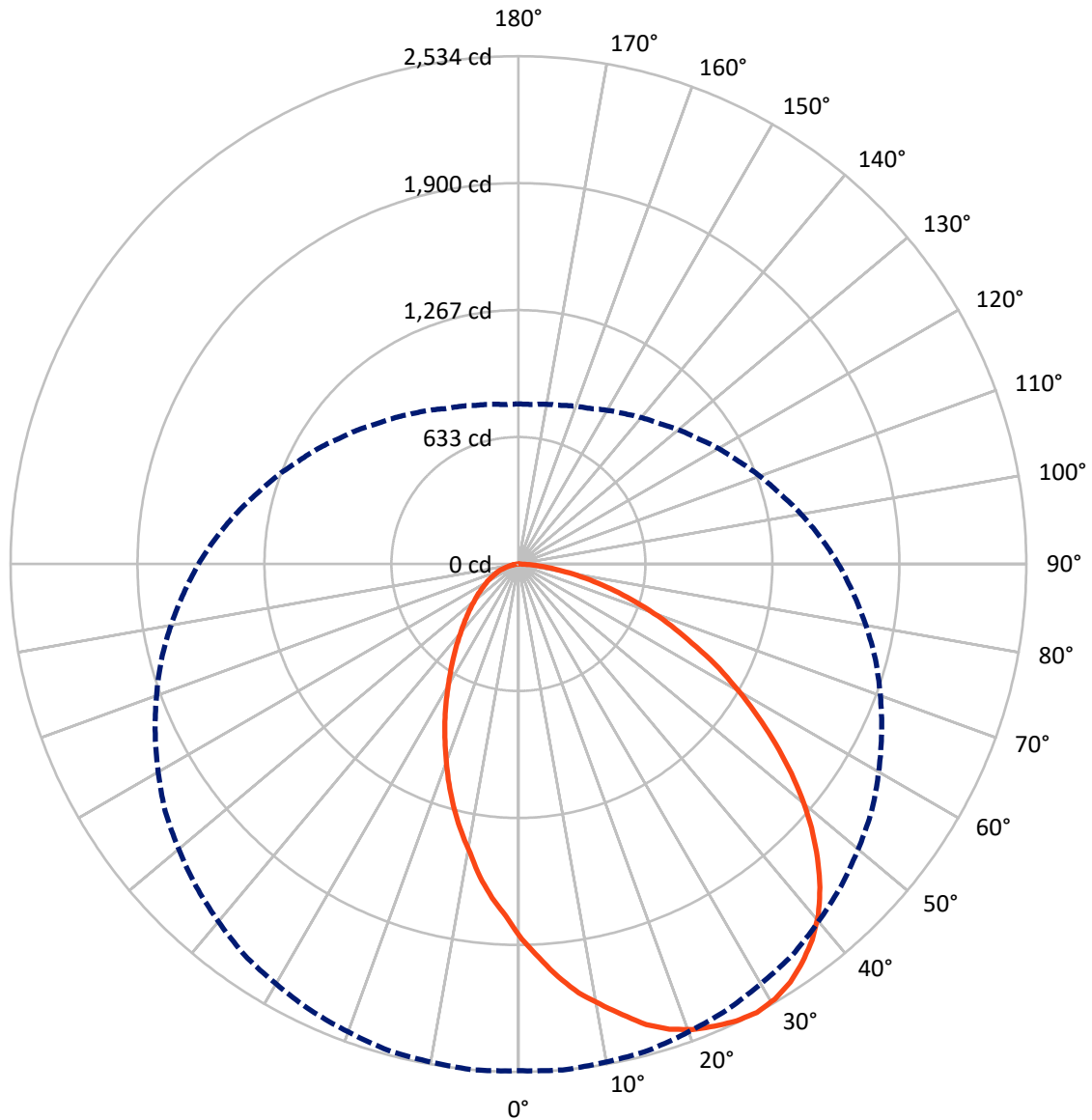
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.5 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P290543  
CATALOG NUMBER: AXCS4A-GRF

### Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral      - - - Horizontal Cone Through 27.5-Deg Vertical

REPORT NUMBER: P290543  
 CATALOG NUMBER: AXCS4A-GRF

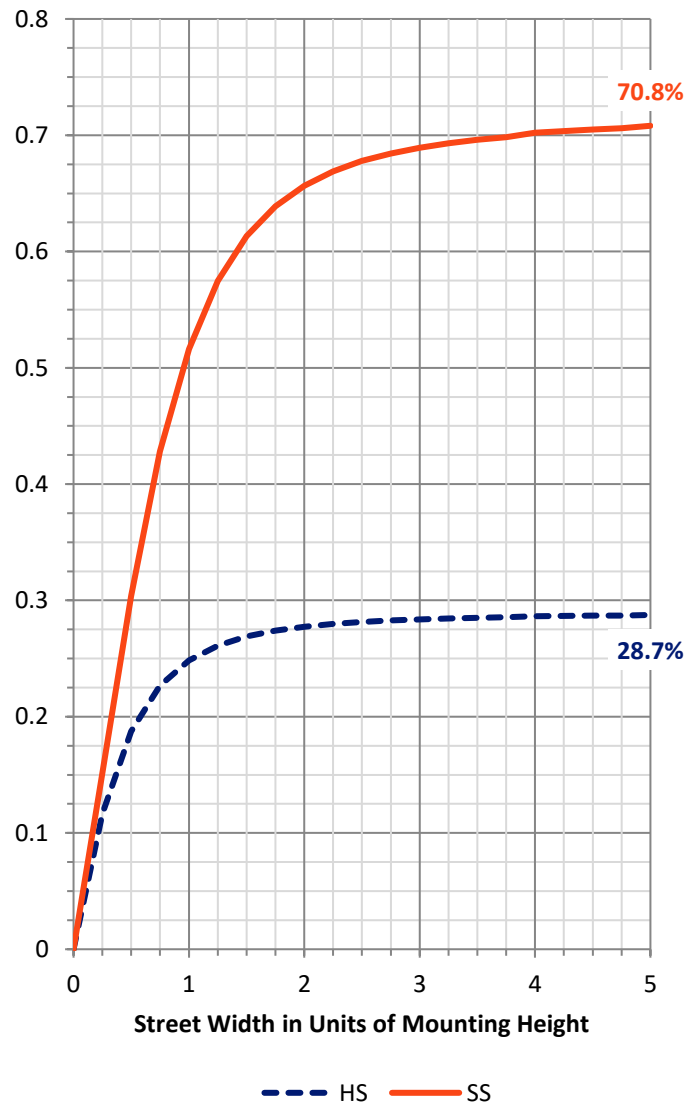
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1413.2	0.0	1413.2
	% Fixture	29.0	0.0	29.0
<b>Street Side</b>	Lumens	3463.7	0.0	3463.7
	% Fixture	71.0	0.0	71.0
<b>Total</b>	Lumens	4876.9	0.0	4876.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.6	3.6
10°-20°	511.3	10.5
20°-30°	771.8	15.8
30°-40°	913.7	18.7
40°-50°	906.9	18.6
50°-60°	756.0	15.5
60°-70°	521.1	10.7
70°-80°	264.6	5.4
80°-90°	53.9	1.1
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°	4876.9	100.0
0°-180°	4876.9	100.0



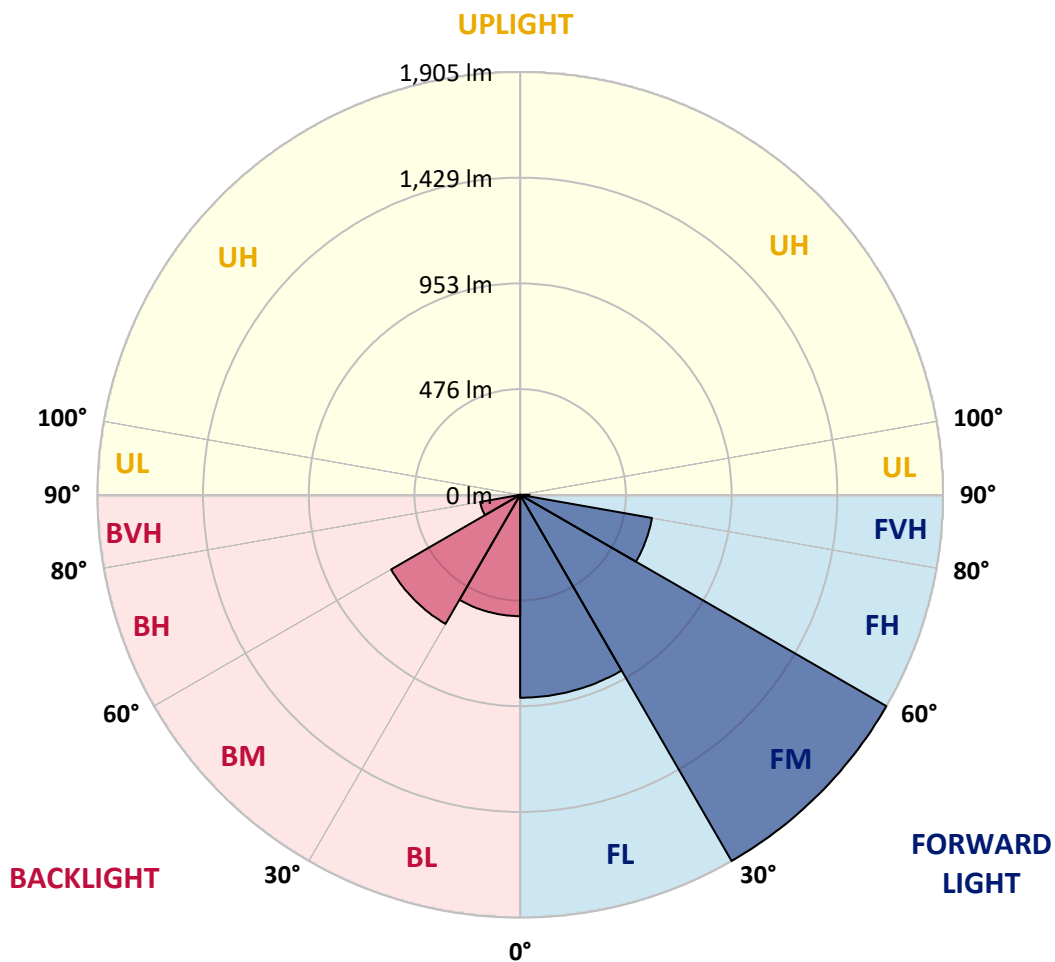
REPORT NUMBER: P290543  
 CATALOG NUMBER: AXCS4A-GRF

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	914.2	18.7			
FM	(30°-60°)	1905.0	39.1			
FH	(60°-80°)	602.5	12.4			G0/660
FVH	(80°-90°)	41.9	0.9			G1/100
BL	(0°-30°)	546.5	11.2	B2/1000		
BM	(30°-60°)	671.6	13.8	B1/1000		
BH	(60°-80°)	183.2	3.8	B1/500		G1/500
BVH	(80°-90°)	12.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





REPORT NUMBER: P290543  
 CATALOG NUMBER: AXCS4A-GRF

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8
2.5°	1977.4	1966.5	1962.5	1951.5	1947.5	1936.6	1925.6	1911.6	1894.7	1881.7	1870.8
5°	2077.1	2068.1	2062.1	2048.2	2031.2	2005.3	1984.4	1956.5	1920.6	1892.7	1873.8
7.5°	2169.8	2160.8	2147.9	2121.9	2102.0	2069.1	2033.2	1988.4	1937.6	1893.7	1865.8
10°	2238.6	2232.6	2216.6	2187.7	2159.8	2114.0	2066.1	2007.3	1941.5	1876.8	1844.9
12.5°	2313.3	2307.3	2288.4	2256.5	2215.6	2160.8	2102.0	2028.3	1948.5	1866.8	1823.9
15°	2389.1	2384.1	2364.1	2326.3	2276.4	2214.6	2138.9	2050.2	1954.5	1856.8	1806.0
17.5°	2444.9	2439.9	2421.9	2378.1	2325.3	2249.5	2162.8	2062.1	1947.5	1833.9	1777.1
20°	2484.7	2478.8	2460.8	2411.0	2352.2	2269.5	2167.8	2054.2	1925.6	1801.0	1737.2
22.5°	2505.7	2504.7	2487.7	2431.9	2368.1	2276.4	2167.8	2040.2	1900.7	1765.1	1693.4
25°	2521.6	2525.6	2505.7	2447.9	2382.1	2278.4	2162.8	2022.3	1875.8	1722.3	1646.5
27.5°	2527.6	2533.6	2511.7	2455.8	2382.1	2274.4	2150.9	1999.4	1843.9	1676.4	1595.7
30°	2514.6	2519.6	2496.7	2444.9	2366.1	2256.5	2121.9	1964.5	1799.0	1621.6	1535.9
32.5°	2481.8	2488.7	2462.8	2413.0	2335.2	2220.6	2083.1	1916.6	1745.2	1560.8	1471.1
35°	2439.9	2439.9	2418.0	2371.1	2291.4	2172.8	2034.2	1862.8	1684.4	1492.0	1401.3
37.5°	2376.1	2380.1	2358.2	2314.3	2233.6	2114.0	1974.4	1802.0	1617.6	1423.3	1330.6
40°	2298.4	2303.3	2280.4	2240.6	2161.8	2048.2	1899.7	1732.2	1541.9	1348.5	1256.8
42.5°	2211.6	2205.7	2189.7	2147.9	2072.1	1962.5	1814.0	1649.5	1462.1	1269.8	1178.1
45°	2099.0	2092.0	2081.1	2035.2	1970.5	1860.8	1723.3	1558.8	1373.4	1185.1	1096.4
47.5°	1979.4	1967.5	1960.5	1918.6	1856.8	1752.2	1617.6	1457.2	1281.7	1100.3	1016.6
50°	1838.9	1831.9	1817.0	1788.1	1730.2	1638.6	1499.0	1354.5	1181.1	1011.6	933.9
52.5°	1694.4	1687.4	1674.4	1650.5	1595.7	1512.0	1383.4	1246.9	1087.4	923.9	851.2
55°	1548.9	1536.9	1525.9	1508.0	1459.1	1376.4	1269.8	1136.2	988.7	840.2	772.4
57.5°	1397.4	1388.4	1379.4	1363.5	1319.6	1249.8	1147.2	1025.6	892.0	756.5	694.7
60°	1248.8	1240.9	1233.9	1220.9	1180.1	1118.3	1026.6	916.0	792.4	677.7	618.9
62.5°	1103.3	1100.3	1090.4	1079.4	1041.5	989.7	907.0	809.3	704.7	598.0	546.2
65°	961.8	950.8	952.8	943.9	910.0	864.1	790.4	703.7	616.9	522.3	476.4
67.5°	825.3	822.3	813.3	806.3	782.4	742.5	677.7	605.0	532.2	449.5	409.6
70°	693.7	692.7	686.7	679.7	658.8	625.9	572.1	511.3	445.5	378.7	345.9
72.5°	569.1	568.1	562.1	557.1	539.2	514.3	474.4	419.6	370.8	312.0	288.0
75°	452.5	451.5	445.5	441.5	428.6	409.6	377.7	332.9	295.0	247.2	227.2
77.5°	341.9	341.9	340.9	333.9	323.9	309.0	286.0	254.2	221.3	186.4	172.4
80°	240.2	238.2	238.2	233.2	225.3	216.3	199.3	178.4	155.5	130.6	121.6
82.5°	151.5	150.5	149.5	145.5	140.5	135.5	124.6	111.6	97.7	81.7	75.7
85°	76.7	76.7	75.7	72.8	69.8	67.8	59.8	55.8	48.8	40.9	37.9
87.5°	22.9	20.9	22.9	20.9	19.9	19.9	16.9	15.9	14.0	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P290543  
 CATALOG NUMBER: AXCS4A-GRF

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8
2.5°	1861.8	1838.9	1820.0	1800.0	1787.1	1772.1	1770.1	1761.1	1758.2	1752.2
5°	1856.8	1814.0	1785.1	1750.2	1724.3	1698.4	1687.4	1675.4	1670.4	1660.5
7.5°	1841.9	1782.1	1737.2	1689.4	1650.5	1616.6	1599.7	1579.7	1572.8	1567.8
10°	1812.0	1738.2	1677.4	1615.6	1565.8	1524.9	1499.0	1475.1	1461.1	1462.1
12.5°	1784.1	1696.4	1622.6	1545.9	1487.1	1436.2	1404.3	1378.4	1366.5	1364.5
15°	1757.2	1653.5	1566.8	1481.1	1408.3	1358.5	1314.6	1284.7	1270.8	1273.8
17.5°	1719.3	1601.7	1503.0	1408.3	1328.6	1268.8	1219.9	1191.0	1171.1	1164.1
20°	1673.4	1541.9	1429.2	1328.6	1242.9	1172.1	1120.3	1090.4	1070.4	1064.5
22.5°	1620.6	1479.1	1356.5	1246.9	1153.2	1080.4	1026.6	993.7	974.8	967.8
25°	1566.8	1415.3	1284.7	1169.1	1073.4	993.7	937.9	903.0	884.1	875.1
27.5°	1513.0	1351.5	1212.0	1092.4	991.7	916.0	855.2	819.3	798.3	798.3
30°	1448.2	1281.7	1138.2	1014.6	912.0	837.2	774.4	738.5	713.6	717.6
32.5°	1379.4	1208.0	1063.5	938.9	835.2	760.5	697.7	662.8	640.9	635.9
35°	1309.6	1136.2	990.7	864.1	763.5	685.7	628.9	594.0	574.1	570.1
37.5°	1238.9	1064.5	917.9	794.4	695.7	620.9	566.1	532.2	514.3	514.3
40°	1165.1	989.7	848.2	728.6	630.9	561.1	509.3	477.4	459.5	459.5
42.5°	1088.4	918.9	781.4	663.8	572.1	508.3	458.5	428.6	410.6	410.6
45°	1008.6	848.2	713.6	605.0	518.3	455.5	410.6	381.7	367.8	368.8
47.5°	930.9	779.4	651.8	549.2	469.4	410.6	368.8	342.9	329.9	328.9
50°	855.2	709.6	596.0	497.3	423.6	370.8	331.9	308.0	295.0	295.0
52.5°	778.4	644.9	539.2	448.5	380.7	333.9	298.0	276.1	264.1	264.1
55°	703.7	582.1	485.4	403.7	344.9	299.0	267.1	246.2	235.2	235.2
57.5°	631.9	521.3	435.6	360.8	308.0	269.1	236.2	219.3	210.3	209.3
60°	563.1	464.5	388.7	320.9	274.1	237.2	210.3	195.4	186.4	186.4
62.5°	497.3	409.6	340.9	284.1	240.2	209.3	186.4	173.4	166.4	165.5
65°	433.6	357.8	298.0	248.2	210.3	183.4	163.5	150.5	144.5	144.5
67.5°	372.8	309.0	256.1	211.3	181.4	158.5	141.5	130.6	124.6	125.6
70°	315.0	256.1	215.3	179.4	153.5	133.6	119.6	110.6	106.6	105.6
72.5°	258.1	212.3	176.4	148.5	126.6	110.6	99.7	91.7	88.7	87.7
75°	203.3	166.4	139.5	117.6	100.7	87.7	78.7	72.8	70.8	69.8
77.5°	153.5	123.6	103.7	88.7	75.7	66.8	59.8	54.8	52.8	52.8
80°	106.6	83.7	71.8	61.8	52.8	46.8	41.9	37.9	36.9	36.9
82.5°	64.8	49.8	42.9	37.9	32.9	28.9	24.9	22.9	22.9	21.9
85°	30.9	22.9	20.9	17.9	15.0	13.0	12.0	11.0	10.0	10.0
87.5°	8.0	6.0	5.0	4.0	3.0	3.0	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)