

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: P290546

Luminaire Tested: **AXCS5A-GRF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290546  
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: AXCS5A-GRF  
Description: 5A AXCENT SMALL LED WALLPACK WITH 4000K CCT AND 70 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5560.1 lumens  
Efficiency: N/A  
Efficacy: 107.1 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

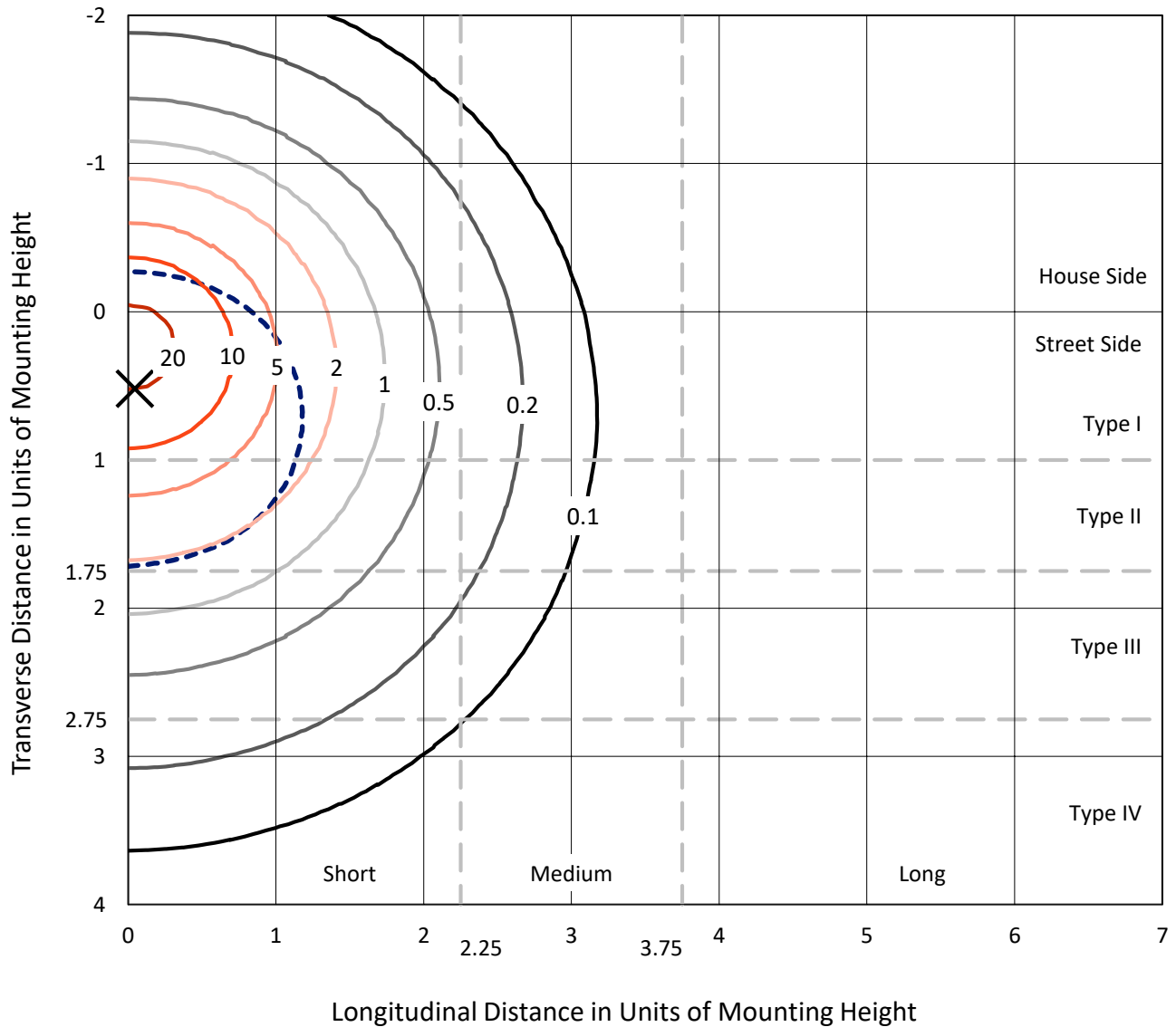
Input Watts (W): 51.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

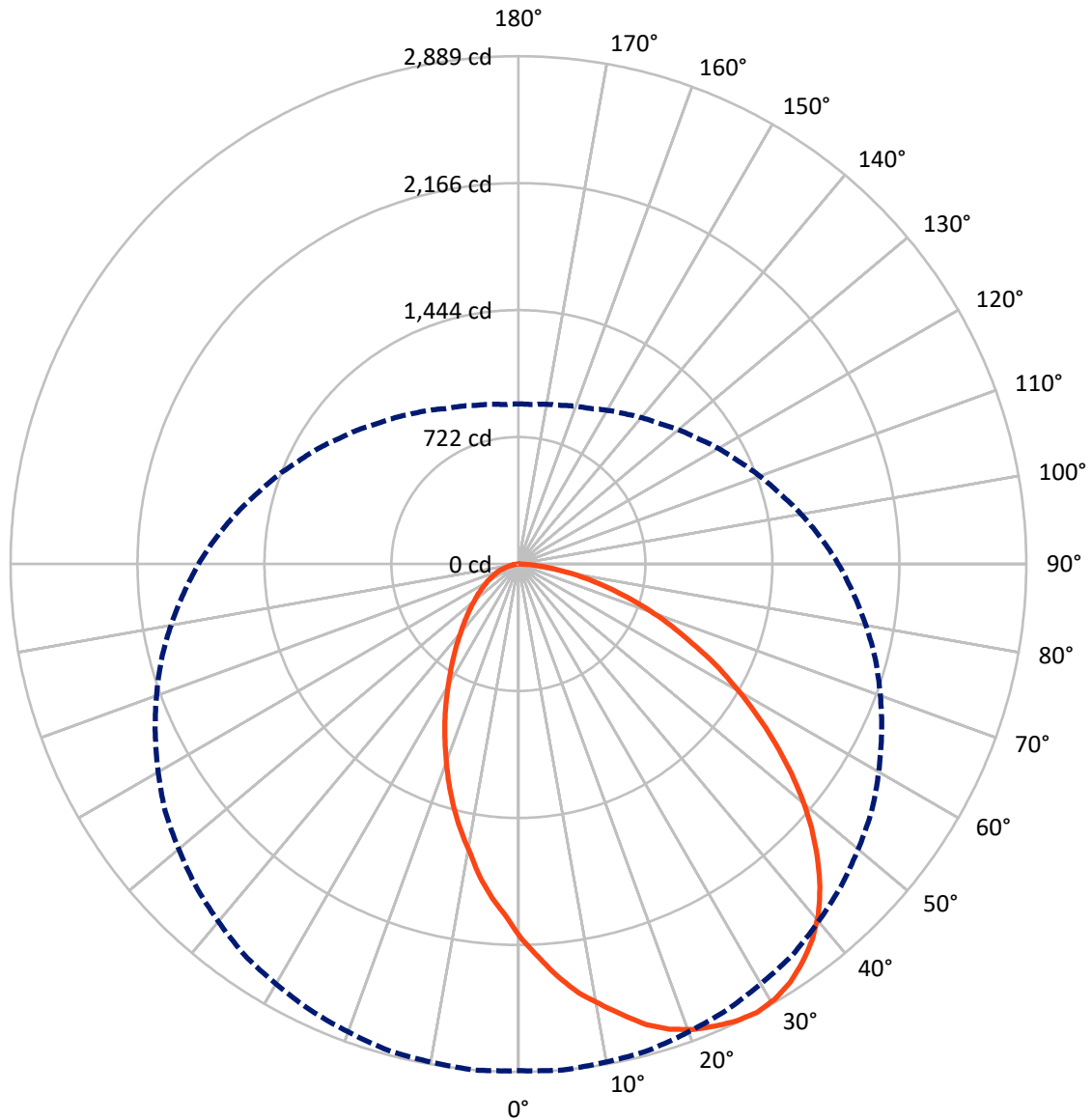
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.6 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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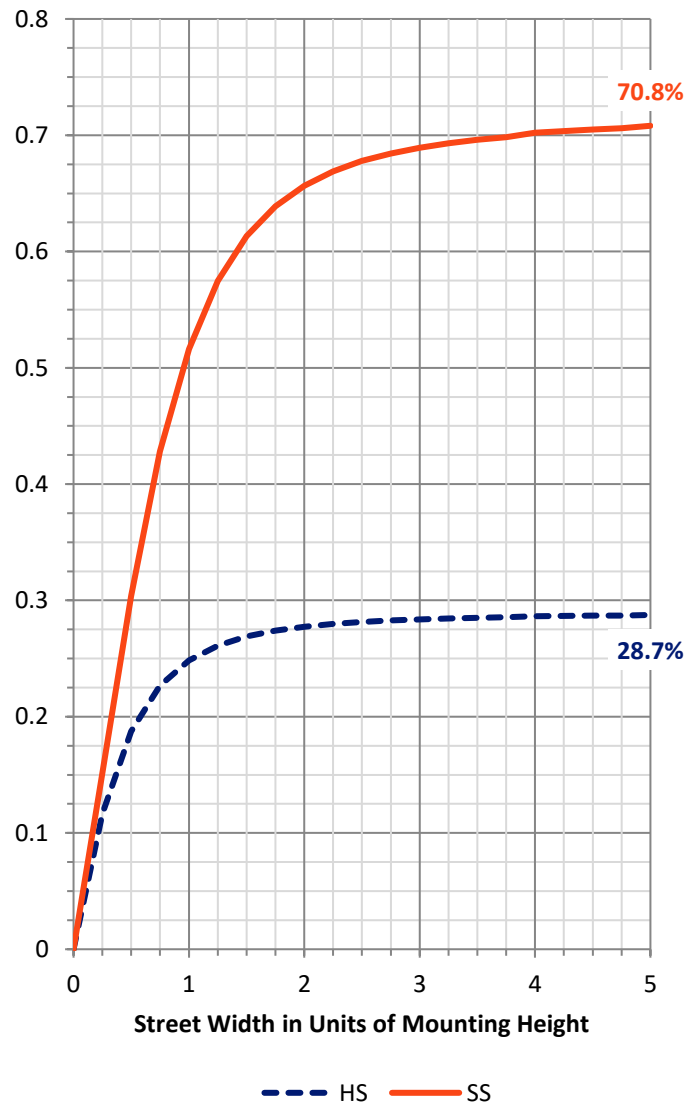
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1611.2	0.0	1611.2
	% Fixture	29.0	0.0	29.0
<b>Street Side</b>	Lumens	3948.9	0.0	3948.9
	% Fixture	71.0	0.0	71.0
<b>Total</b>	Lumens	5560.1	0.0	5560.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.4	3.6
10°-20°	582.9	10.5
20°-30°	879.9	15.8
30°-40°	1041.7	18.7
40°-50°	1034.0	18.6
50°-60°	861.9	15.5
60°-70°	594.1	10.7
70°-80°	301.7	5.4
80°-90°	61.4	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°	5560.1	100.0
0°-180°	5560.1	100.0

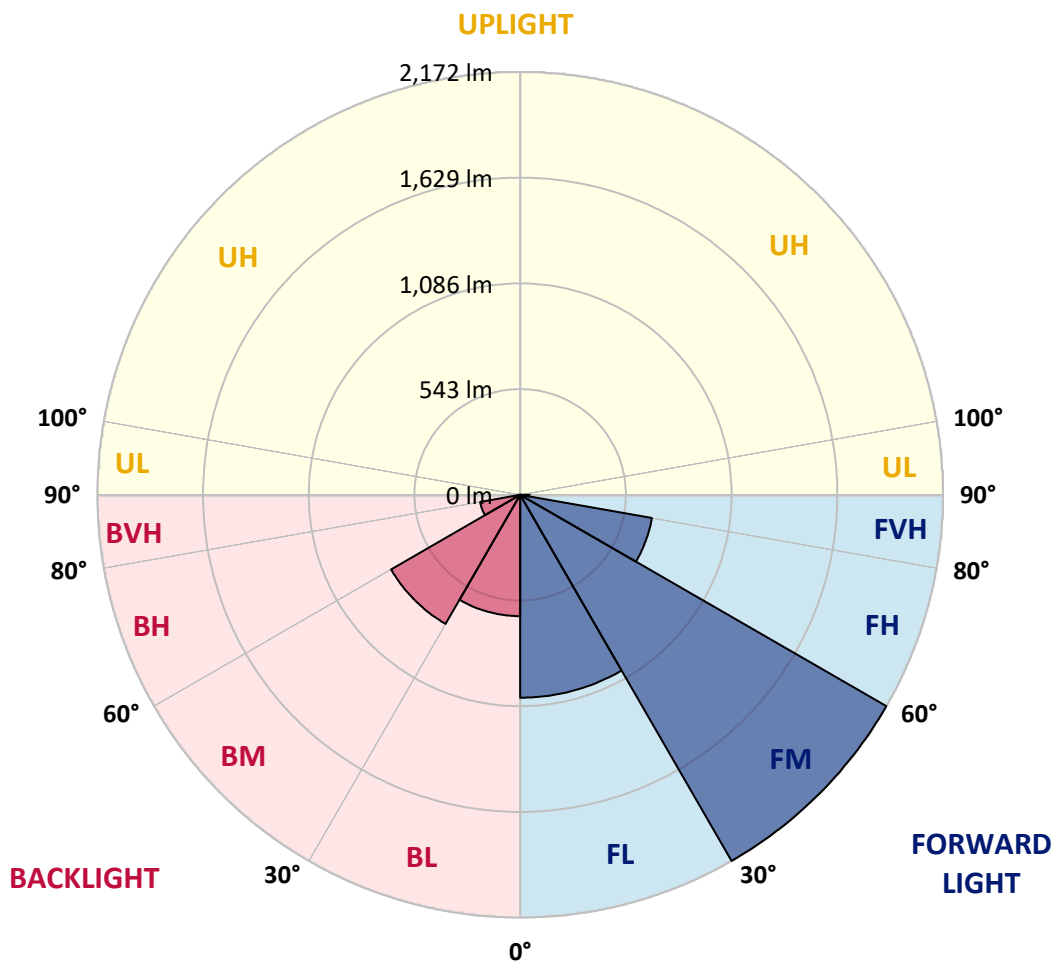


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1042.3	18.7			
FM	(30°-60°)	2171.9	39.1			
FH	(60°-80°)	687.0	12.4			G1/1800
FVH	(80°-90°)	47.7	0.9			G1/100
BL	(0°-30°)	623.0	11.2	B2/1000		
BM	(30°-60°)	765.7	13.8	B1/1000		
BH	(60°-80°)	208.9	3.8	B1/500		G1/500
BVH	(80°-90°)	13.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9
2.5°	2254.4	2241.9	2237.4	2224.9	2220.4	2207.9	2195.4	2179.5	2160.1	2145.4	2132.9
5°	2368.1	2357.9	2351.0	2335.1	2315.8	2286.3	2262.4	2230.6	2189.7	2157.9	2136.3
7.5°	2473.8	2463.5	2448.8	2419.2	2396.5	2359.0	2318.1	2266.9	2209.0	2159.0	2127.2
10°	2552.2	2545.3	2527.2	2494.2	2462.4	2410.1	2355.6	2288.5	2213.5	2139.7	2103.3
12.5°	2637.4	2630.6	2609.0	2572.6	2526.0	2463.5	2396.5	2312.4	2221.5	2128.3	2079.5
15°	2723.7	2718.1	2695.3	2652.2	2595.3	2524.9	2438.5	2337.4	2228.3	2117.0	2059.0
17.5°	2787.4	2781.7	2761.2	2711.2	2651.0	2564.7	2465.8	2351.0	2220.4	2090.8	2026.0
20°	2832.8	2826.0	2805.6	2748.7	2681.7	2587.4	2471.5	2341.9	2195.4	2053.3	1980.6
22.5°	2856.7	2855.6	2836.2	2772.6	2699.9	2595.3	2471.5	2326.0	2167.0	2012.4	1930.6
25°	2874.9	2879.4	2856.7	2790.8	2715.8	2597.6	2465.8	2305.6	2138.5	1963.6	1877.2
27.5°	2881.7	2888.5	2863.5	2799.9	2715.8	2593.1	2452.2	2279.4	2102.2	1911.3	1819.2
30°	2866.9	2872.6	2846.5	2787.4	2697.6	2572.6	2419.2	2239.7	2051.0	1848.8	1751.1
32.5°	2829.4	2837.4	2807.8	2751.0	2662.4	2531.7	2374.9	2185.1	1989.7	1779.5	1677.2
35°	2781.7	2781.7	2756.7	2703.3	2612.4	2477.2	2319.2	2123.8	1920.4	1701.1	1597.7
37.5°	2709.0	2713.5	2688.5	2638.5	2546.5	2410.1	2251.0	2054.5	1844.2	1622.7	1517.0
40°	2620.3	2626.0	2599.9	2554.4	2464.7	2335.1	2165.8	1974.9	1757.9	1537.4	1432.9
42.5°	2521.5	2514.7	2496.5	2448.8	2362.4	2237.4	2068.1	1880.6	1667.0	1447.7	1343.1
45°	2393.1	2385.1	2372.6	2320.4	2246.5	2121.5	1964.7	1777.2	1565.8	1351.1	1249.9
47.5°	2256.7	2243.1	2235.1	2187.4	2117.0	1997.6	1844.2	1661.3	1461.3	1254.5	1159.0
50°	2096.5	2088.5	2071.5	2038.5	1972.6	1868.1	1709.0	1544.3	1346.5	1153.4	1064.7
52.5°	1931.7	1923.8	1909.0	1881.7	1819.2	1723.8	1577.2	1421.5	1239.7	1053.4	970.4
55°	1765.8	1752.2	1739.7	1719.2	1663.6	1569.3	1447.7	1295.4	1127.2	957.9	880.6
57.5°	1593.1	1582.9	1572.7	1554.5	1504.5	1424.9	1307.9	1169.3	1017.0	862.5	792.0
60°	1423.8	1414.7	1406.8	1392.0	1345.4	1274.9	1170.4	1044.3	903.4	772.7	705.7
62.5°	1257.9	1254.5	1243.1	1230.6	1187.4	1128.4	1034.0	922.7	803.4	681.8	622.7
65°	1096.5	1084.0	1086.3	1076.1	1037.5	985.2	901.1	802.2	703.4	595.4	543.2
67.5°	940.9	937.5	927.2	919.3	892.0	846.6	772.7	689.7	606.8	512.5	467.0
70°	790.9	789.7	782.9	775.0	751.1	713.6	652.2	582.9	507.9	431.8	394.3
72.5°	648.8	647.7	640.9	635.2	614.7	586.3	540.9	478.4	422.7	355.7	328.4
75°	515.9	514.8	507.9	503.4	488.6	467.0	430.7	379.5	336.3	281.8	259.1
77.5°	389.8	389.8	388.6	380.7	369.3	352.3	326.1	289.8	252.3	212.5	196.6
80°	273.9	271.6	271.6	265.9	256.8	246.6	227.3	203.4	177.3	148.9	138.6
82.5°	172.7	171.6	170.4	165.9	160.2	154.5	142.0	127.3	111.4	93.2	86.4
85°	87.5	87.5	86.4	83.0	79.5	77.3	68.2	63.6	55.7	46.6	43.2
87.5°	26.1	23.9	26.1	23.9	22.7	22.7	19.3	18.2	15.9	12.5	12.5
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9
2.5°	2122.6	2096.5	2074.9	2052.2	2037.4	2020.4	2018.1	2007.9	2004.5	1997.6
5°	2117.0	2068.1	2035.1	1995.4	1965.8	1936.3	1923.8	1910.1	1904.5	1893.1
7.5°	2099.9	2031.7	1980.6	1926.1	1881.7	1843.1	1823.8	1801.1	1793.1	1787.4
10°	2065.8	1981.7	1912.4	1842.0	1785.2	1738.6	1709.0	1681.7	1665.8	1667.0
12.5°	2034.0	1934.0	1849.9	1762.4	1695.4	1637.4	1601.1	1571.5	1557.9	1555.6
15°	2003.3	1885.1	1786.3	1688.6	1605.6	1548.8	1498.8	1464.7	1448.8	1452.2
17.5°	1960.1	1826.1	1713.6	1605.6	1514.7	1446.5	1390.8	1357.9	1335.2	1327.2
20°	1907.9	1757.9	1629.5	1514.7	1417.0	1336.3	1277.2	1243.1	1220.4	1213.6
22.5°	1847.6	1686.3	1546.5	1421.5	1314.7	1231.8	1170.4	1132.9	1111.3	1103.4
25°	1786.3	1613.6	1464.7	1332.9	1223.8	1132.9	1069.3	1029.5	1007.9	997.7
27.5°	1724.9	1540.8	1381.8	1245.4	1130.6	1044.3	975.0	934.1	910.2	910.2
30°	1651.1	1461.3	1297.7	1156.8	1039.7	954.5	882.9	842.0	813.6	818.1
32.5°	1572.7	1377.2	1212.4	1070.4	952.2	867.0	795.4	755.6	730.7	725.0
35°	1493.1	1295.4	1129.5	985.2	870.4	781.8	717.0	677.2	654.5	650.0
37.5°	1412.4	1213.6	1046.5	905.6	793.1	707.9	645.4	606.8	586.3	586.3
40°	1328.4	1128.4	967.0	830.6	719.3	639.7	580.7	544.3	523.8	523.8
42.5°	1240.9	1047.7	890.9	756.8	652.2	579.5	522.7	488.6	468.2	468.2
45°	1150.0	967.0	813.6	689.7	590.9	519.3	468.2	435.2	419.3	420.4
47.5°	1061.3	888.6	743.1	626.1	535.2	468.2	420.4	390.9	376.1	375.0
50°	975.0	809.1	679.5	567.0	482.9	422.7	378.4	351.1	336.3	336.3
52.5°	887.5	735.2	614.7	511.3	434.1	380.7	339.8	314.8	301.1	301.1
55°	802.2	663.6	553.4	460.2	393.2	340.9	304.5	280.7	268.2	268.2
57.5°	720.4	594.3	496.6	411.3	351.1	306.8	269.3	250.0	239.8	238.6
60°	642.0	529.5	443.2	365.9	312.5	270.4	239.8	222.7	212.5	212.5
62.5°	567.0	467.0	388.6	323.8	273.9	238.6	212.5	197.7	189.8	188.6
65°	494.3	407.9	339.8	282.9	239.8	209.1	186.4	171.6	164.8	164.8
67.5°	425.0	352.3	292.0	240.9	206.8	180.7	161.4	148.9	142.0	143.2
70°	359.1	292.0	245.4	204.5	175.0	152.3	136.4	126.1	121.6	120.4
72.5°	294.3	242.0	201.1	169.3	144.3	126.1	113.6	104.5	101.1	100.0
75°	231.8	189.8	159.1	134.1	114.8	100.0	89.8	83.0	80.7	79.5
77.5°	175.0	140.9	118.2	101.1	86.4	76.1	68.2	62.5	60.2	60.2
80°	121.6	95.5	81.8	70.5	60.2	53.4	47.7	43.2	42.0	42.0
82.5°	73.9	56.8	48.9	43.2	37.5	33.0	28.4	26.1	26.1	25.0
85°	35.2	26.1	23.9	20.5	17.0	14.8	13.6	12.5	11.4	11.4
87.5°	9.1	6.8	5.7	4.5	3.4	3.4	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)