

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: P651755

Luminaire Tested: **GALN-SA2A-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-840-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6751.5 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

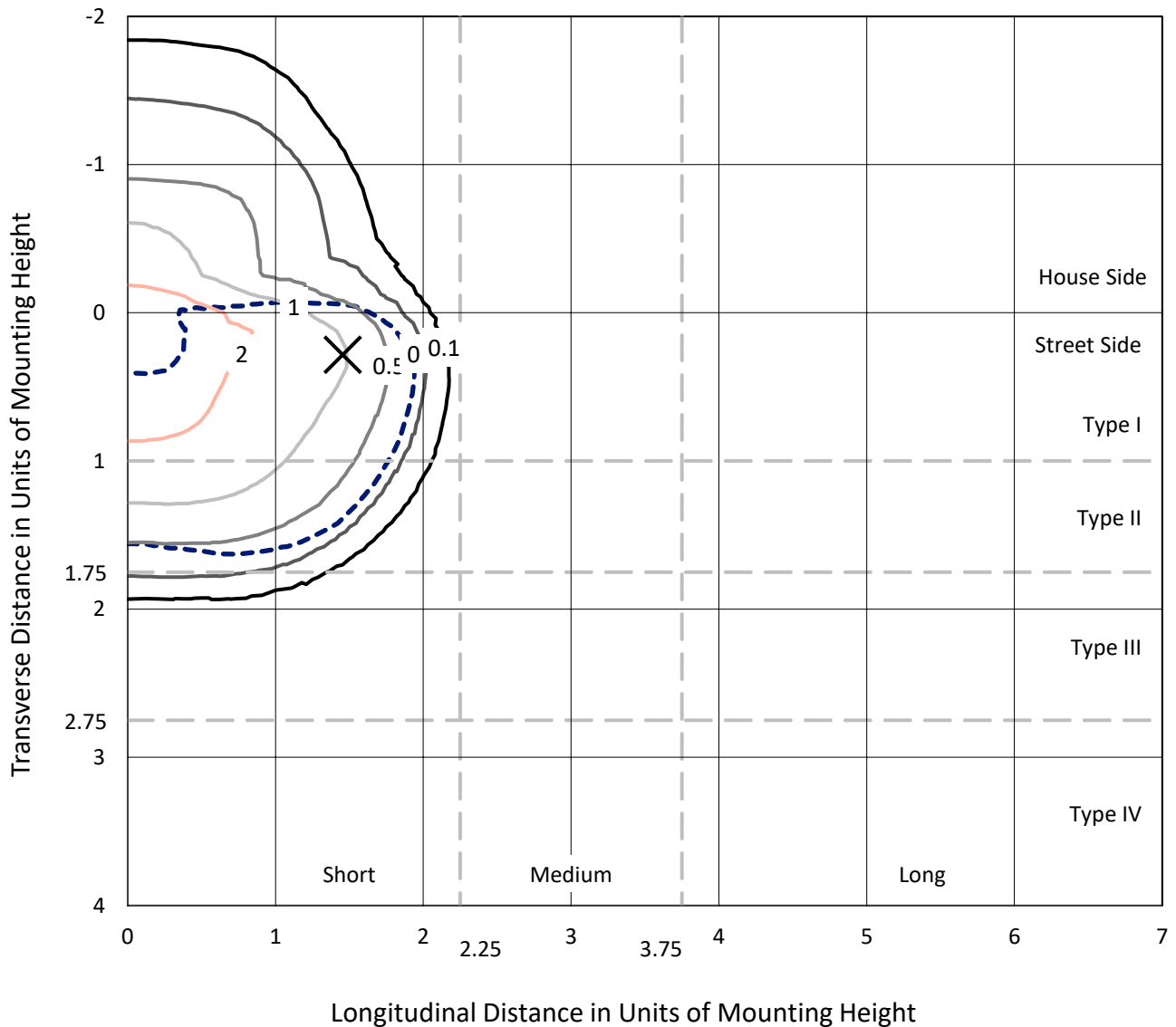
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

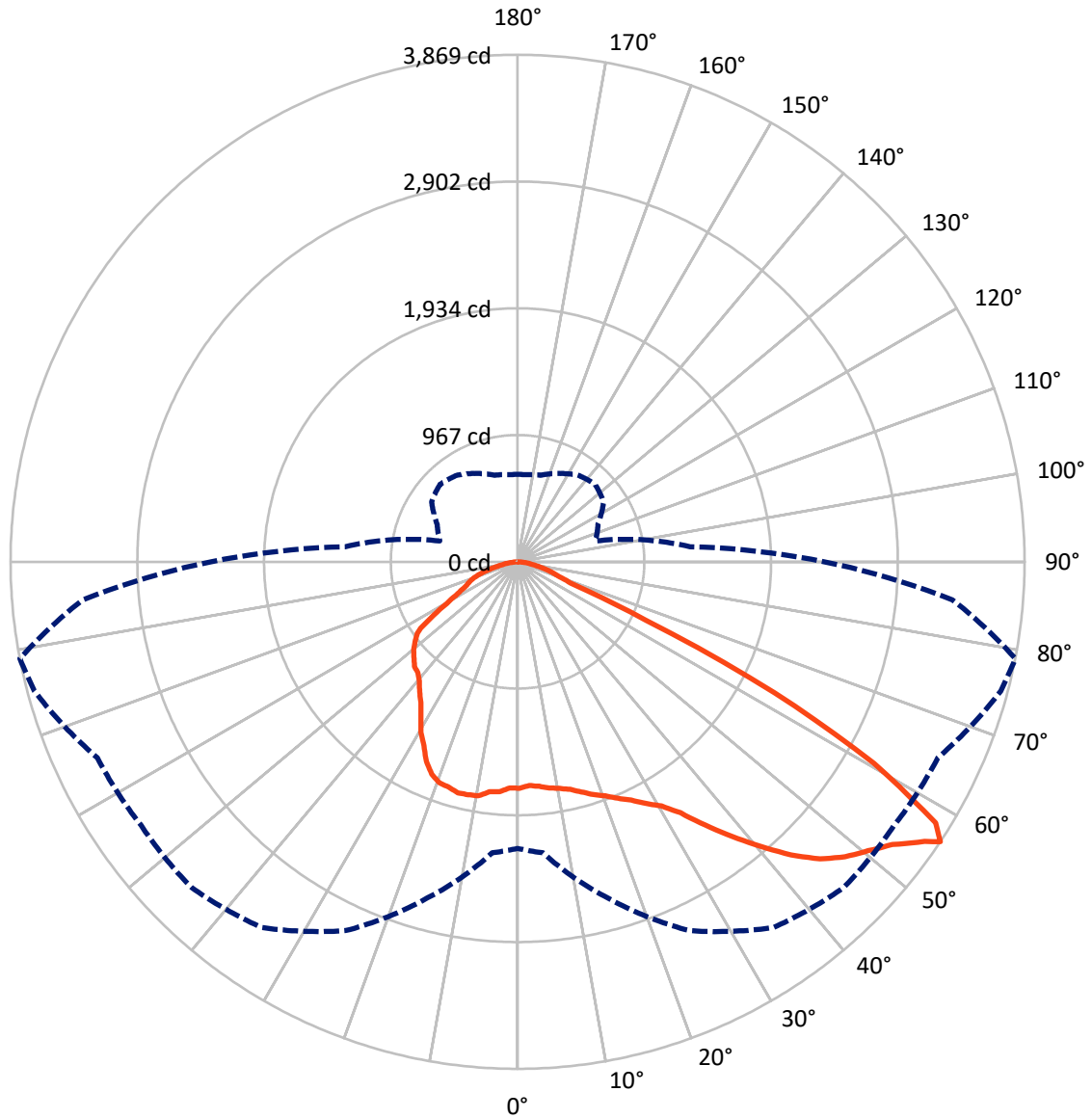
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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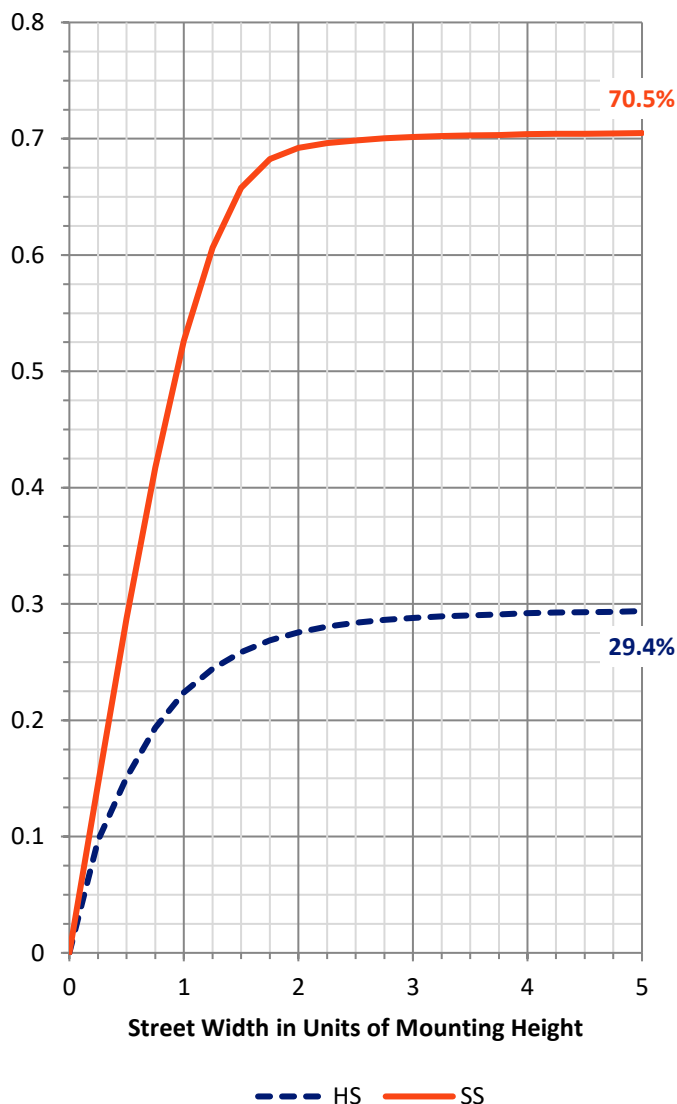
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1993.8	0.0	1993.8
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	4757.7	0.0	4757.7
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	6751.5	0.0	6751.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.1	2.3
10°-20°	429.8	6.4
20°-30°	735.3	10.9
30°-40°	1127.0	16.7
40°-50°	1523.2	22.6
50°-60°	1749.4	25.9
60°-70°	797.4	11.8
70°-80°	196.6	2.9
80°-90°	35.7	0.5
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°	6751.5	100.0
0°-180°	6751.5	100.0

**Coefficient of Utilization**

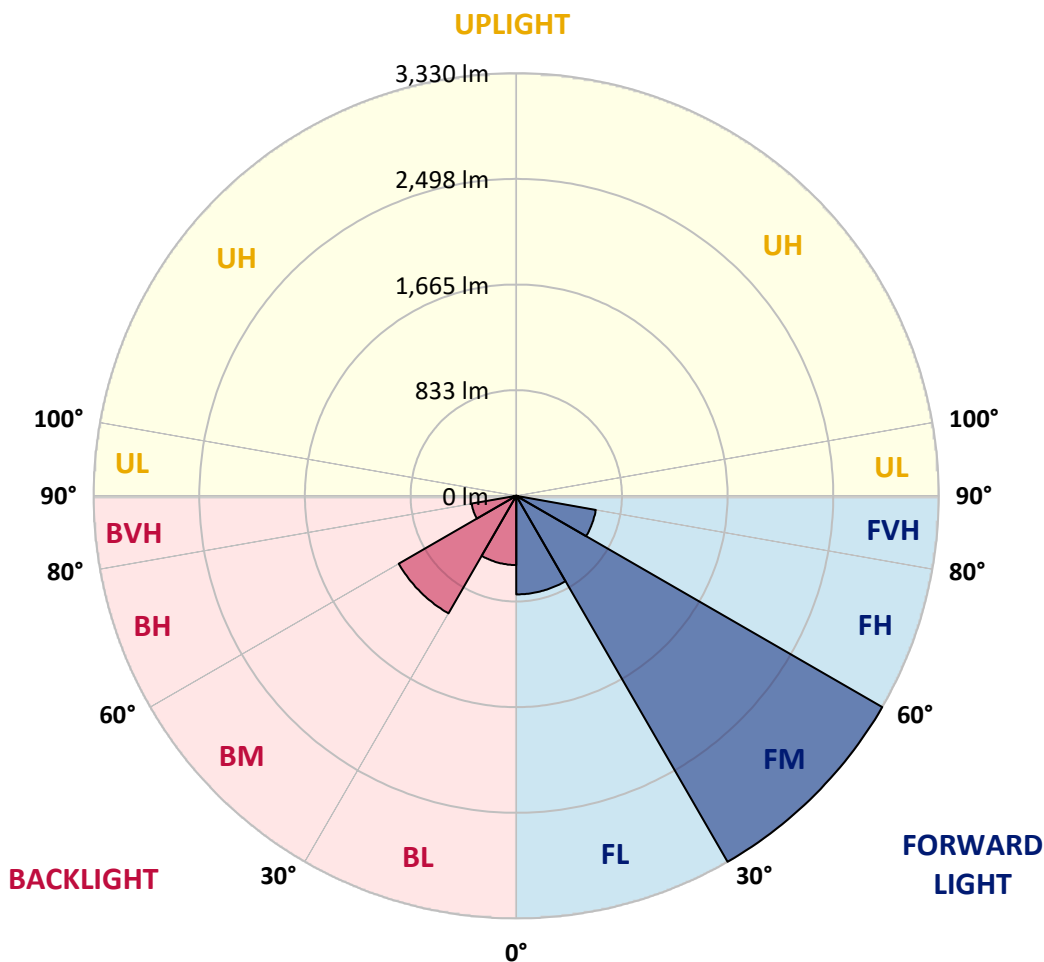


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	776.8	11.5			
FM (30°-60°)	3330.1	49.3			
FH (60°-80°)	636.5	9.4			G0/660
FVH (80°-90°)	14.3	0.2			G1/100
BL (0°-30°)	545.4	8.1	B2/1000		
BM (30°-60°)	1069.5	15.8	B2/2500		
BH (60°-80°)	357.5	5.3	B1/500		G1/500
BVH (80°-90°)	21.5	0.3			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°	79°	85°
0°	1727.4	1727.4	1727.4	1727.4	1727.4	1727.4	1727.4	1727.4	1727.4	1727.4	1727.4
2.5°	1643.3	1639.1	1649.2	1656.8	1666.0	1677.8	1683.7	1687.0	1716.5	1708.9	1731.6
5°	1608.0	1597.1	1604.6	1610.5	1626.5	1640.8	1656.8	1682.0	1708.9	1720.7	1748.4
7.5°	1576.9	1571.0	1569.3	1573.5	1595.4	1613.9	1641.6	1678.6	1722.4	1741.7	1757.7
10°	1525.6	1517.2	1529.8	1557.5	1563.4	1602.1	1634.1	1687.0	1724.9	1758.5	1805.6
12.5°	1502.9	1494.5	1497.0	1513.0	1554.2	1591.2	1629.0	1688.7	1768.6	1782.1	1845.2
15°	1539.0	1530.6	1533.1	1528.9	1568.5	1587.8	1647.5	1722.4	1798.9	1821.6	1889.0
17.5°	1621.4	1622.3	1611.4	1602.1	1592.9	1634.1	1675.3	1742.6	1810.7	1867.9	1918.4
20°	1778.7	1751.0	1729.1	1677.0	1662.7	1680.3	1732.5	1797.2	1858.7	1905.8	1963.0
22.5°	1899.9	1902.4	1871.3	1785.4	1754.3	1761.9	1806.5	1859.5	1926.8	1960.5	2026.1
25°	2075.7	2058.0	2024.4	1956.3	1886.4	1892.3	1925.1	1973.1	1991.6	2015.1	2086.6
27.5°	2236.3	2241.3	2174.9	2111.0	2024.4	2007.6	2066.4	2074.8	2043.7	2088.3	2112.7
30°	2399.5	2395.3	2351.5	2276.7	2191.7	2195.1	2221.2	2180.0	2137.1	2161.5	2178.3
32.5°	2568.5	2520.6	2518.9	2451.6	2386.8	2355.7	2323.8	2344.0	2277.5	2282.6	2266.6
35°	2703.9	2710.6	2671.9	2624.0	2592.0	2537.4	2449.9	2486.1	2473.5	2467.6	2398.6
37.5°	2802.3	2776.2	2795.6	2779.6	2749.3	2681.2	2590.4	2624.8	2630.7	2659.3	2579.4
40°	2883.0	2872.1	2923.4	2931.8	2910.8	2763.6	2600.5	2703.1	2791.4	2853.6	2758.6
42.5°	2921.7	2945.3	2999.1	3063.8	3016.8	2859.5	2652.6	2762.8	2959.6	3058.0	2928.4
45°	2973.9	2943.6	3023.5	3142.1	3142.9	2940.2	2703.1	2843.5	3090.8	3233.7	3044.5
47.5°	2920.9	2936.0	3018.4	3169.0	3207.7	3025.2	2839.3	2957.9	3235.4	3362.4	3152.2
50°	2802.3	2832.6	2983.1	3139.5	3256.4	3115.1	2995.7	3081.5	3369.1	3465.8	3169.8
52.5°	2678.7	2695.5	2931.0	3162.2	3278.3	3231.2	3205.1	3252.2	3532.3	3582.7	3191.7
55°	2342.3	2422.2	2758.6	3152.2	3385.1	3440.6	3420.4	3489.4	3717.3	3767.8	3311.1
56°	2186.7	2228.7	2655.1	3105.1	3406.1	3517.1	3507.1	3538.2	3815.7	3868.7	3329.6
57.5°	1899.1	1902.4	2264.1	2896.5	3327.1	3539.9	3529.8	3554.2	3796.4	3760.2	3167.3
60°	1188.3	1240.5	1540.7	2227.9	2829.2	3284.2	3341.4	3145.4	3200.9	3124.4	2464.2
62.5°	615.6	608.0	807.4	1302.7	1878.0	2351.5	2404.5	2395.3	2309.5	2197.6	1609.7
65°	307.0	308.6	422.2	645.0	962.1	1231.2	1379.2	1395.2	1167.3	1074.0	763.6
67.5°	222.9	231.3	303.6	394.4	453.3	507.1	621.5	609.7	461.7	439.0	407.0
70°	173.2	180.8	246.4	301.1	273.3	273.3	297.7	307.8	328.8	338.1	349.0
72.5°	126.2	132.0	188.4	207.7	179.1	192.6	222.9	246.4	268.3	271.6	284.3
75°	86.6	91.7	123.6	114.4	107.6	132.9	163.2	185.0	201.0	209.4	217.0
77.5°	56.3	58.0	70.6	59.7	69.0	85.8	106.0	124.5	140.4	147.2	148.9
80°	25.2	27.8	30.3	37.8	47.9	61.4	75.7	90.8	100.9	103.4	108.5
82.5°	14.3	14.3	18.5	26.9	35.3	44.6	54.7	65.6	77.4	79.9	79.1
85°	7.6	7.6	10.9	16.0	21.9	26.1	25.2	26.1	27.8	32.0	31.1
87.5°	2.5	2.5	3.4	3.4	4.2	5.0	4.2	5.9	7.6	7.6	7.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1727.4	1727.4	1727.4	1727.4	1727.4	1727.4	1727.4	1727.4	1727.4	1727.4	1727.4
2.5°	1724.9	1732.5	1722.4	1744.2	1744.2	1740.0	1719.0	1725.7	1730.8	1730.8	1735.0
5°	1757.7	1755.2	1761.9	1735.8	1719.8	1714.0	1679.5	1662.7	1648.4	1647.5	1634.9
7.5°	1776.2	1769.5	1766.9	1747.6	1677.0	1634.1	1560.1	1517.2	1507.9	1475.1	1487.7
10°	1805.6	1818.2	1805.6	1700.5	1602.1	1503.7	1431.4	1364.9	1338.9	1317.8	1305.2
12.5°	1866.3	1860.4	1787.1	1645.0	1507.1	1390.2	1282.5	1212.7	1186.7	1168.1	1166.5
15°	1917.6	1888.1	1776.2	1557.5	1359.1	1234.6	1146.3	1096.7	1084.9	1086.6	1094.1
17.5°	1935.2	1915.0	1719.0	1466.7	1248.9	1102.6	1061.3	1053.8	1064.7	1077.3	1080.7
20°	1963.0	1931.0	1695.5	1343.1	1112.6	1020.1	1017.6	1044.5	1064.7	1083.2	1085.7
22.5°	2021.0	1940.3	1618.9	1226.2	1019.3	995.7	1020.1	1042.8	1074.0	1089.1	1075.6
25°	2037.8	1920.1	1511.3	1085.7	960.4	980.6	1006.7	1037.8	1059.7	1068.1	1074.0
27.5°	2052.1	1889.0	1365.8	992.4	941.9	979.8	1006.7	1032.7	1044.5	1052.1	1058.8
30°	2092.5	1879.7	1239.6	930.1	930.1	962.9	997.4	1004.2	1020.1	1029.4	1041.2
32.5°	2112.7	1815.7	1110.1	890.6	918.4	971.4	973.9	986.5	987.3	994.9	982.3
35°	2165.7	1770.3	989.9	862.0	923.4	962.9	975.6	968.0	926.8	906.6	910.8
37.5°	2204.3	1747.6	903.2	858.7	924.3	972.2	978.9	921.7	878.8	845.2	853.6
40°	2308.6	1691.3	837.6	852.8	931.8	982.3	963.8	901.6	824.2	789.7	783.8
42.5°	2388.5	1650.9	796.4	846.0	937.7	996.6	956.2	861.2	782.1	750.2	758.6
45°	2481.0	1641.6	774.6	847.7	947.8	1004.2	947.0	830.1	746.0	733.4	730.8
47.5°	2513.8	1575.2	751.0	833.4	945.3	1001.6	915.8	806.5	732.5	734.2	740.9
50°	2459.2	1507.1	733.4	804.0	928.5	978.9	867.1	775.4	724.9	746.0	757.7
52.5°	2389.4	1437.3	697.2	764.5	894.0	943.6	844.4	773.7	717.4	710.6	713.2
55°	2410.4	1380.1	646.7	710.6	838.5	878.0	819.1	757.7	698.9	673.6	682.1
56°	2342.3	1321.2	613.9	677.0	800.6	836.0	806.5	743.4	683.7	666.9	666.9
57.5°	2149.7	1123.6	571.0	623.2	720.7	762.8	782.1	735.0	666.9	637.5	638.3
60°	1585.3	798.9	512.2	549.2	597.1	630.8	720.7	711.5	624.9	604.7	597.1
62.5°	977.2	583.7	470.1	484.4	508.8	536.6	629.1	644.2	580.3	558.4	553.4
65°	547.5	446.6	438.2	444.0	455.8	470.1	522.3	555.9	512.2	478.5	476.8
67.5°	400.3	399.5	406.2	411.2	416.3	416.3	428.9	442.4	436.5	409.6	407.0
70°	355.7	358.3	363.3	364.2	365.8	359.9	349.9	345.7	352.4	335.6	332.2
72.5°	293.5	301.9	307.8	308.6	299.4	291.8	278.4	264.1	259.0	255.7	254.8
75°	225.4	231.3	233.8	233.0	229.6	218.7	202.7	188.4	179.1	169.0	174.1
77.5°	152.2	160.6	164.8	164.8	159.8	143.0	135.4	124.5	115.2	104.3	106.0
80°	106.8	112.7	119.4	118.6	110.2	101.8	90.8	80.7	73.2	64.8	63.9
82.5°	79.9	83.3	86.6	84.9	79.1	70.6	63.1	53.8	45.4	39.5	39.5
85°	28.6	31.1	37.8	39.5	42.9	42.9	36.2	30.3	24.4	20.2	20.2
87.5°	8.4	8.4	9.3	9.3	8.4	9.3	7.6	8.4	9.3	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)