

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: P647795

Luminaire Tested: **GALN-SA2A-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647795  
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-835-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 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: 6285.9 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

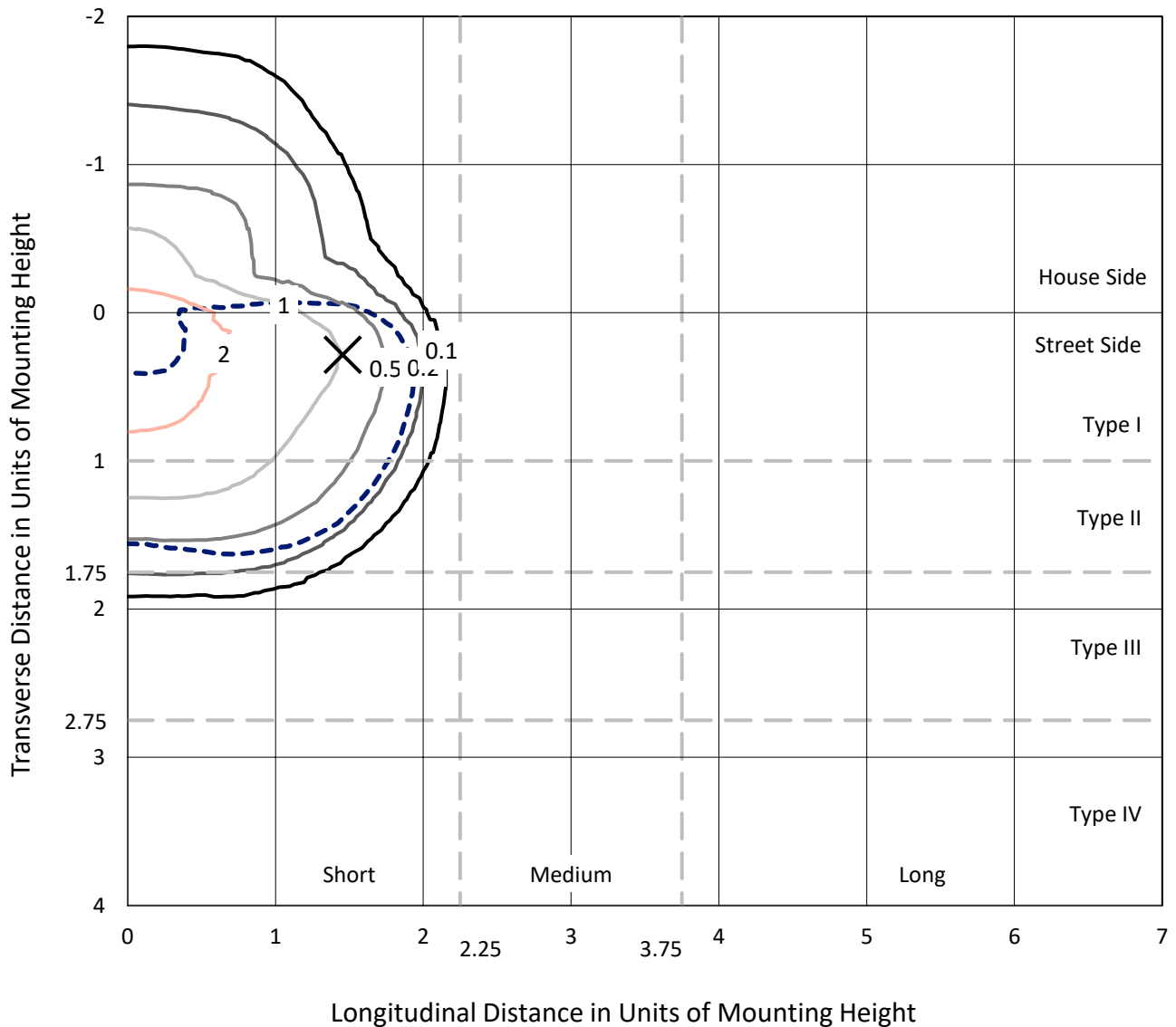
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

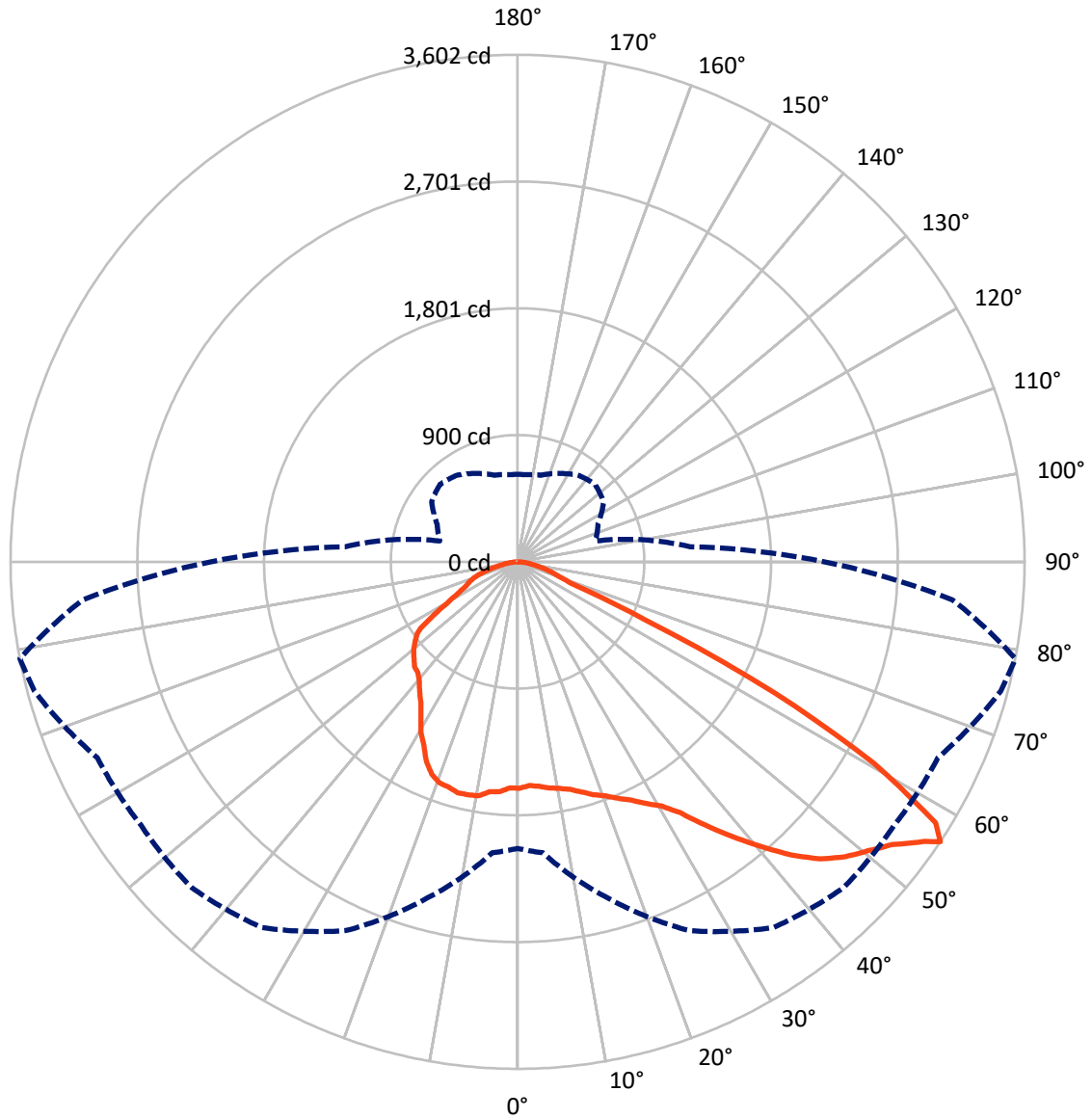
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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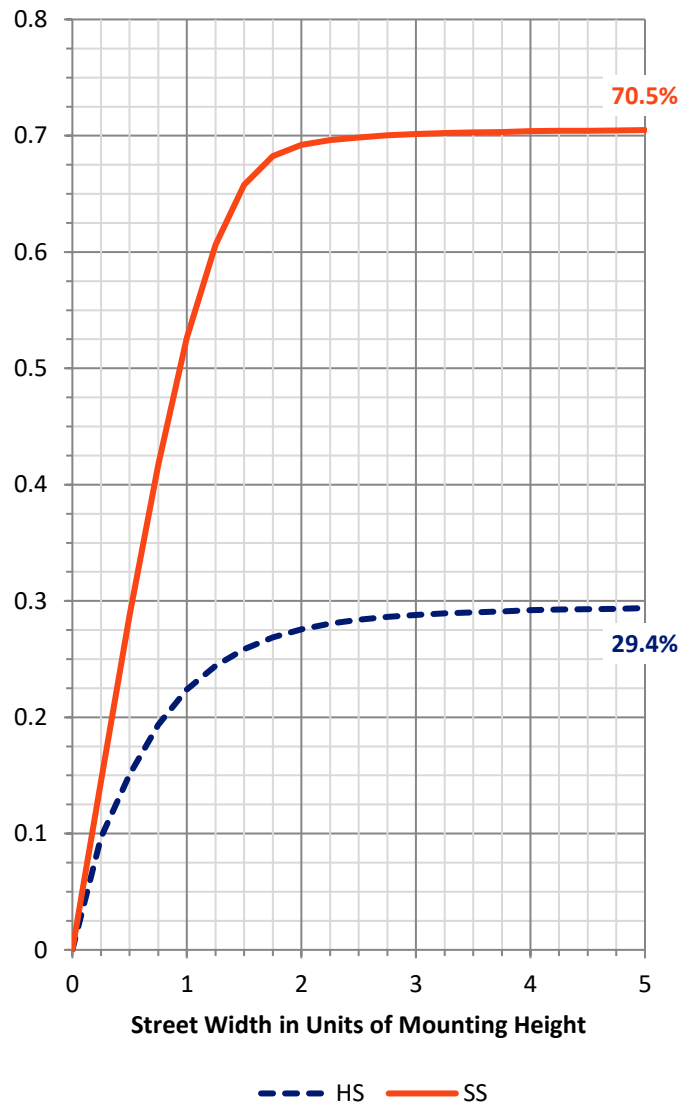
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1856.3	0.0	1856.3
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	4429.6	0.0	4429.6
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	6285.9	0.0	6285.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.2	2.3
10°-20°	400.2	6.4
20°-30°	684.6	10.9
30°-40°	1049.3	16.7
40°-50°	1418.1	22.6
50°-60°	1628.7	25.9
60°-70°	742.4	11.8
70°-80°	183.0	2.9
80°-90°	33.3	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°	6285.9	100.0
0°-180°	6285.9	100.0

**Coefficient of Utilization**

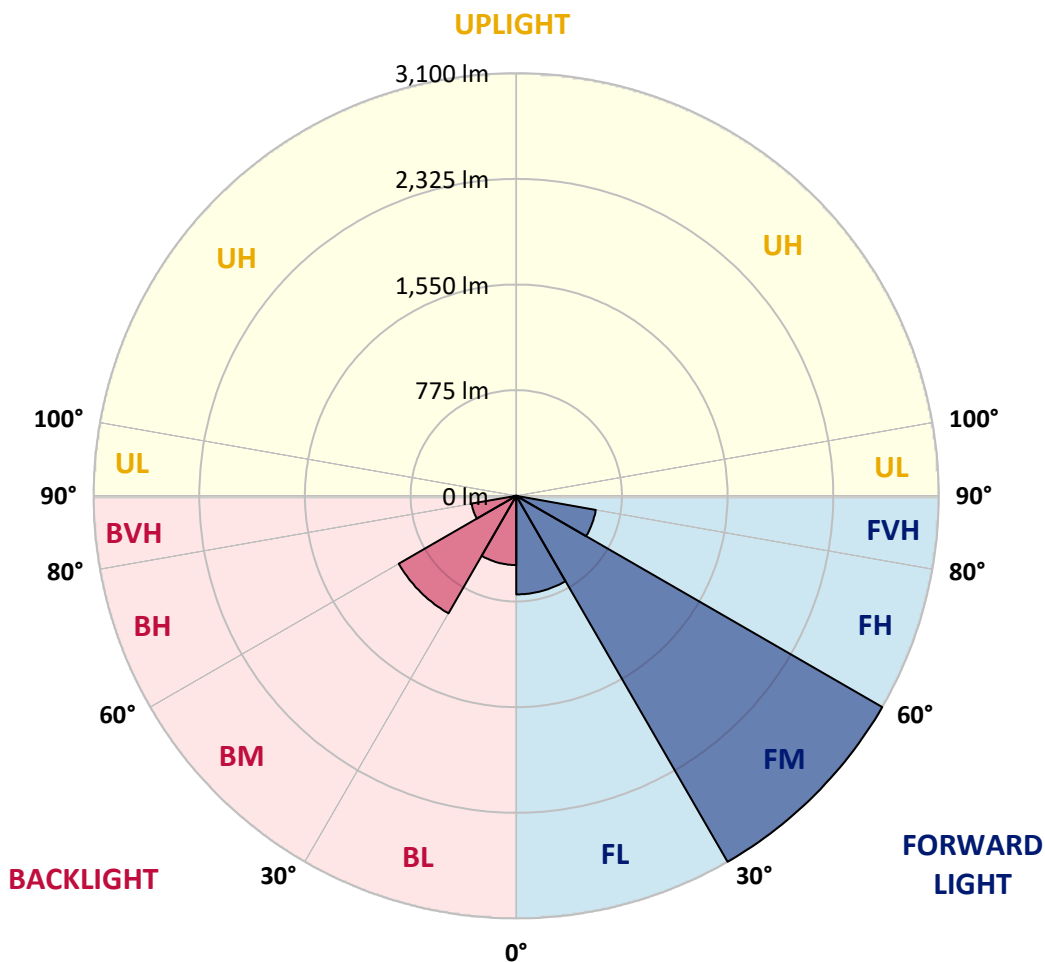


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.2	11.5			
FM (30°-60°)	3100.4	49.3			
FH (60°-80°)	592.6	9.4			G0/660
FVH (80°-90°)	13.3	0.2			G1/100
BL (0°-30°)	507.8	8.1	B2/1000		
BM (30°-60°)	995.7	15.8	B1/1000		
BH (60°-80°)	332.9	5.3	B1/500		G1/500
BVH (80°-90°)	20.0	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°	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3
2.5°	1530.0	1526.1	1535.5	1542.5	1551.1	1562.1	1567.6	1570.7	1598.1	1591.1	1612.2
5°	1497.1	1486.9	1494.0	1499.4	1514.3	1527.6	1542.5	1566.0	1591.1	1602.0	1627.9
7.5°	1468.1	1462.6	1461.1	1465.0	1485.4	1502.6	1528.4	1562.9	1603.6	1621.6	1636.5
10°	1420.4	1412.5	1424.3	1450.1	1455.6	1491.6	1521.4	1570.7	1605.9	1637.3	1681.1
12.5°	1399.2	1391.4	1393.7	1408.6	1447.0	1481.4	1516.7	1572.3	1646.6	1659.2	1718.0
15°	1432.9	1425.1	1427.4	1423.5	1460.3	1478.3	1533.9	1603.6	1674.8	1696.0	1758.7
17.5°	1509.6	1510.4	1500.2	1491.6	1483.0	1521.4	1559.7	1622.4	1685.8	1739.1	1786.1
20°	1656.0	1630.2	1609.8	1561.3	1548.0	1564.4	1613.0	1673.3	1730.5	1774.4	1827.6
22.5°	1768.9	1771.2	1742.3	1662.3	1633.3	1640.4	1681.9	1731.3	1793.9	1825.3	1886.3
25°	1932.5	1916.1	1884.8	1821.3	1756.3	1761.8	1792.4	1837.0	1854.2	1876.1	1942.7
27.5°	2082.1	2086.8	2024.9	1965.4	1884.8	1869.1	1923.9	1931.7	1902.8	1944.3	1967.0
30°	2234.0	2230.1	2189.3	2119.7	2040.6	2043.7	2068.0	2029.6	1989.7	2012.4	2028.0
32.5°	2391.4	2346.7	2345.2	2282.5	2222.2	2193.3	2163.5	2182.3	2120.4	2125.1	2110.3
35°	2517.4	2523.7	2487.7	2443.0	2413.3	2362.4	2281.0	2314.6	2302.9	2297.4	2233.2
37.5°	2609.0	2584.8	2602.8	2587.9	2559.7	2496.3	2411.7	2443.8	2449.3	2475.9	2401.5
40°	2684.2	2674.0	2721.8	2729.6	2710.0	2573.0	2421.1	2516.6	2598.9	2656.8	2568.3
42.5°	2720.2	2742.1	2792.3	2852.5	2808.7	2662.3	2469.7	2572.2	2755.5	2847.1	2726.5
45°	2768.8	2740.6	2815.0	2925.4	2926.1	2737.4	2516.6	2647.4	2877.6	3010.7	2834.5
47.5°	2719.4	2733.5	2810.3	2950.4	2986.4	2816.5	2643.5	2753.9	3012.3	3130.5	2934.8
50°	2609.0	2637.2	2777.4	2923.0	3031.9	2900.3	2789.1	2869.0	3136.8	3226.8	2951.2
52.5°	2493.9	2509.6	2728.8	2944.2	3052.2	3008.4	2984.1	3027.9	3288.7	3335.7	2971.6
55°	2180.7	2255.1	2568.3	2934.8	3151.7	3203.3	3184.5	3248.7	3460.9	3507.9	3082.7
56°	2035.9	2075.0	2472.0	2890.9	3171.2	3274.6	3265.2	3294.2	3552.5	3601.9	3100.0
57.5°	1768.1	1771.2	2107.9	2696.7	3097.6	3295.7	3286.3	3309.0	3534.5	3500.9	2948.9
60°	1106.4	1154.9	1434.5	2074.2	2634.1	3057.7	3110.9	2928.5	2980.2	2908.9	2294.3
62.5°	573.2	566.1	751.7	1212.9	1748.5	2189.3	2238.7	2230.1	2150.2	2046.1	1498.7
65°	285.8	287.4	393.1	600.6	895.8	1146.3	1284.1	1299.0	1086.8	999.9	711.0
67.5°	207.5	215.3	282.7	367.2	422.0	472.1	578.6	567.7	429.9	408.7	379.0
70°	161.3	168.3	229.4	280.3	254.5	254.5	277.2	286.6	306.2	314.8	324.9
72.5°	117.4	122.9	175.4	193.4	166.8	179.3	207.5	229.4	249.8	252.9	264.7
75°	80.6	85.3	115.1	106.5	100.2	123.7	151.9	172.3	187.1	195.0	202.0
77.5°	52.5	54.0	65.8	55.6	64.2	79.9	98.7	115.9	130.8	137.0	138.6
80°	23.5	25.8	28.2	35.2	44.6	57.2	70.5	84.6	94.0	96.3	101.0
82.5°	13.3	13.3	17.2	25.1	32.9	41.5	50.9	61.1	72.0	74.4	73.6
85°	7.0	7.0	10.2	14.9	20.4	24.3	23.5	24.3	25.8	29.8	29.0
87.5°	2.3	2.3	3.1	3.1	3.9	4.7	3.9	5.5	7.0	7.0	7.0
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°	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3
2.5°	1605.9	1613.0	1603.6	1623.9	1623.9	1620.0	1600.5	1606.7	1611.4	1611.4	1615.3
5°	1636.5	1634.1	1640.4	1616.1	1601.2	1595.8	1563.7	1548.0	1534.7	1533.9	1522.2
7.5°	1653.7	1647.4	1645.1	1627.1	1561.3	1521.4	1452.5	1412.5	1403.9	1373.4	1385.1
10°	1681.1	1692.8	1681.1	1583.2	1491.6	1400.0	1332.7	1270.8	1246.5	1227.0	1215.2
12.5°	1737.6	1732.1	1663.9	1531.5	1403.1	1294.3	1194.1	1129.1	1104.8	1087.6	1086.0
15°	1785.3	1757.9	1653.7	1450.1	1265.3	1149.4	1067.2	1021.0	1010.1	1011.6	1018.7
17.5°	1801.8	1783.0	1600.5	1365.6	1162.8	1026.5	988.1	981.1	991.3	1003.0	1006.2
20°	1827.6	1797.8	1578.5	1250.5	1035.9	949.8	947.4	972.5	991.3	1008.5	1010.9
22.5°	1881.6	1806.5	1507.3	1141.6	949.0	927.1	949.8	970.9	999.9	1014.0	1001.5
25°	1897.3	1787.7	1407.1	1010.9	894.2	913.0	937.3	966.2	986.6	994.4	999.9
27.5°	1910.6	1758.7	1271.6	923.9	877.0	912.2	937.3	961.5	972.5	979.5	985.8
30°	1948.2	1750.1	1154.1	866.0	866.0	896.5	928.6	934.9	949.8	958.4	969.4
32.5°	1967.0	1690.5	1033.6	829.2	855.0	904.4	906.7	918.5	919.2	926.3	914.5
35°	2016.3	1648.2	921.6	802.6	859.7	896.5	908.3	901.2	862.9	844.1	848.0
37.5°	2052.3	1627.1	840.9	799.4	860.5	905.1	911.4	858.2	818.2	786.9	794.7
40°	2149.4	1574.6	779.9	794.0	867.6	914.5	897.3	839.4	767.3	735.2	729.8
42.5°	2223.8	1537.0	741.5	787.7	873.0	927.9	890.3	801.8	728.2	698.4	706.3
45°	2309.9	1528.4	721.1	789.3	882.4	934.9	881.7	772.8	694.5	682.8	680.4
47.5°	2340.5	1466.6	699.2	776.0	880.1	932.6	852.7	750.9	682.0	683.6	689.8
50°	2289.6	1403.1	682.8	748.5	864.4	911.4	807.3	721.9	674.9	694.5	705.5
52.5°	2224.6	1338.1	649.1	711.7	832.3	878.5	786.1	720.4	667.9	661.6	664.0
55°	2244.2	1284.9	602.1	661.6	780.7	817.5	762.6	705.5	650.7	627.2	635.0
56°	2180.7	1230.1	571.6	630.3	745.4	778.3	750.9	692.2	636.6	620.9	620.9
57.5°	2001.4	1046.1	531.7	580.2	671.0	710.2	728.2	684.3	620.9	593.5	594.3
60°	1476.0	743.8	476.8	511.3	555.9	587.2	671.0	662.4	581.8	563.0	555.9
62.5°	909.8	543.4	437.7	451.0	473.7	499.6	585.7	599.8	540.3	519.9	515.2
65°	509.7	415.8	407.9	413.4	424.4	437.7	486.2	517.6	476.8	445.5	444.0
67.5°	372.7	371.9	378.2	382.9	387.6	387.6	399.3	411.9	406.4	381.3	379.0
70°	331.2	333.6	338.3	339.0	340.6	335.1	325.7	321.8	328.1	312.4	309.3
72.5°	273.3	281.1	286.6	287.4	278.7	271.7	259.2	245.9	241.2	238.0	237.2
75°	209.8	215.3	217.7	216.9	213.8	203.6	188.7	175.4	166.8	157.4	162.1
77.5°	141.7	149.6	153.5	153.5	148.8	133.1	126.1	115.9	107.3	97.1	98.7
80°	99.4	104.9	111.2	110.4	102.6	94.7	84.6	75.2	68.1	60.3	59.5
82.5°	74.4	77.5	80.6	79.1	73.6	65.8	58.7	50.1	42.3	36.8	36.8
85°	26.6	29.0	35.2	36.8	39.9	39.9	33.7	28.2	22.7	18.8	18.8
87.5°	7.8	7.8	8.6	8.6	7.8	8.6	7.0	7.8	8.6	5.5	5.5
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)