

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: P526790

Luminaire Tested: **GALN-SA1D-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526790  
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-SA1D-730-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6223 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

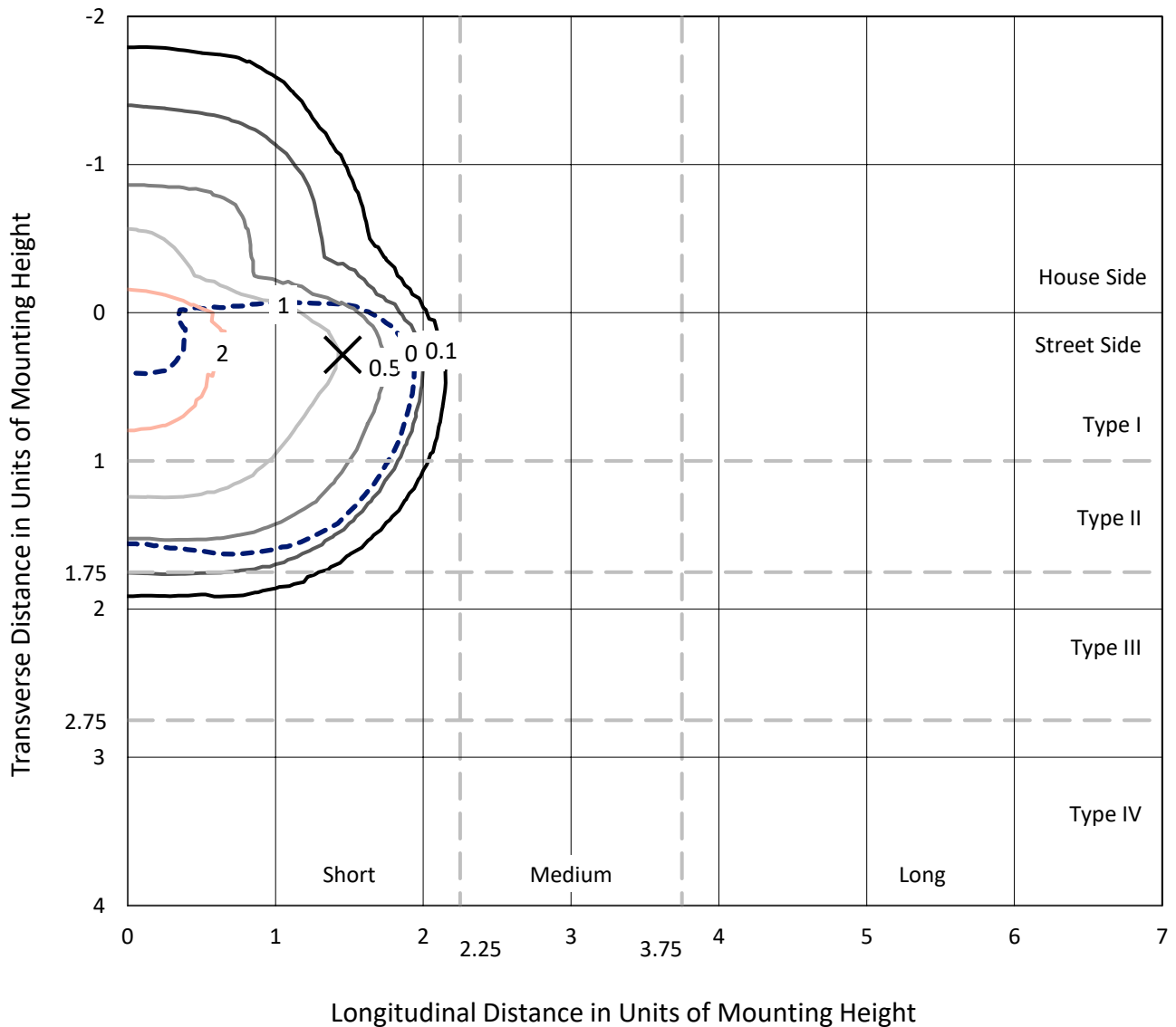
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

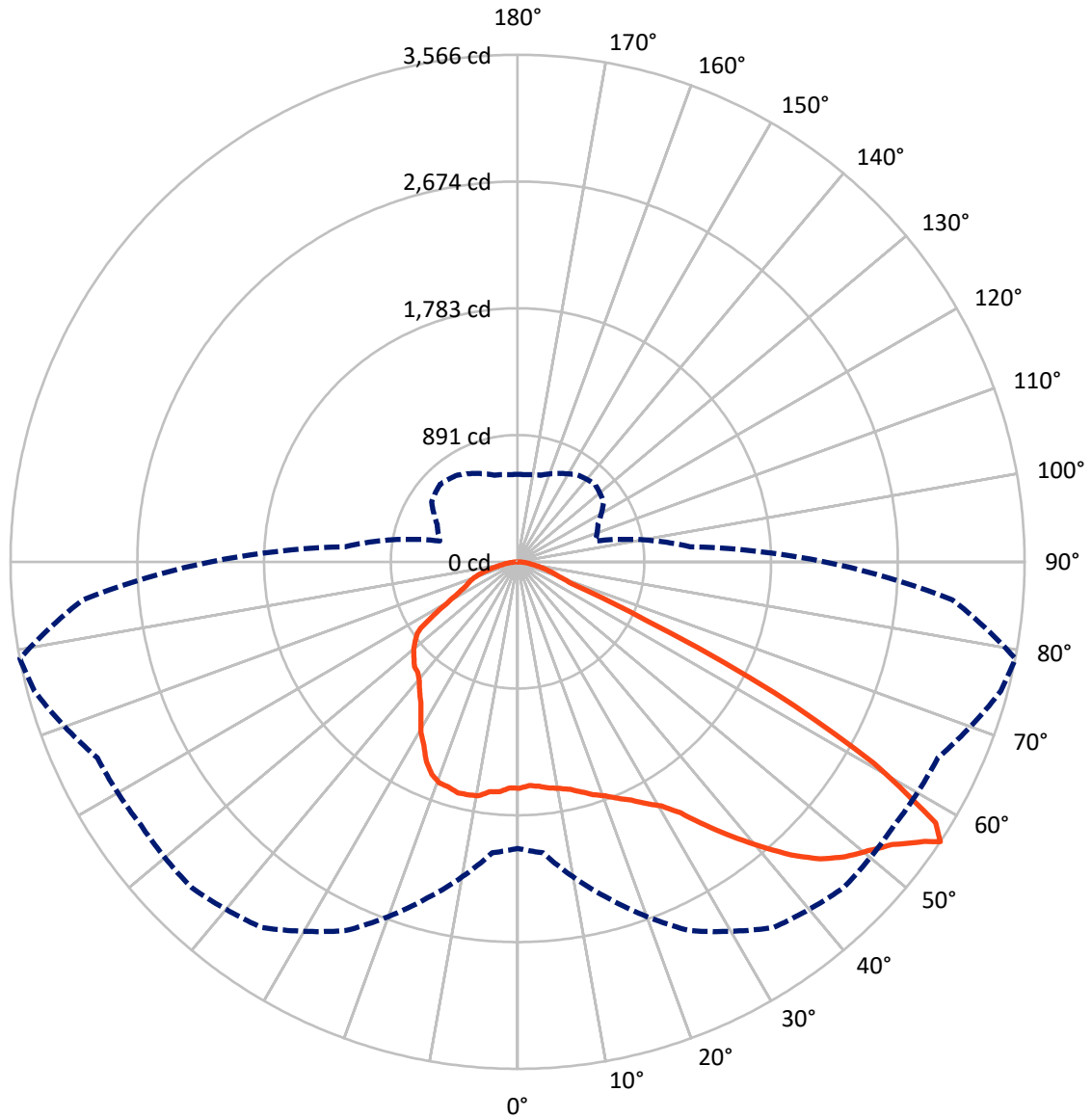
× Max cd  
 - - - 1/2 Max cd



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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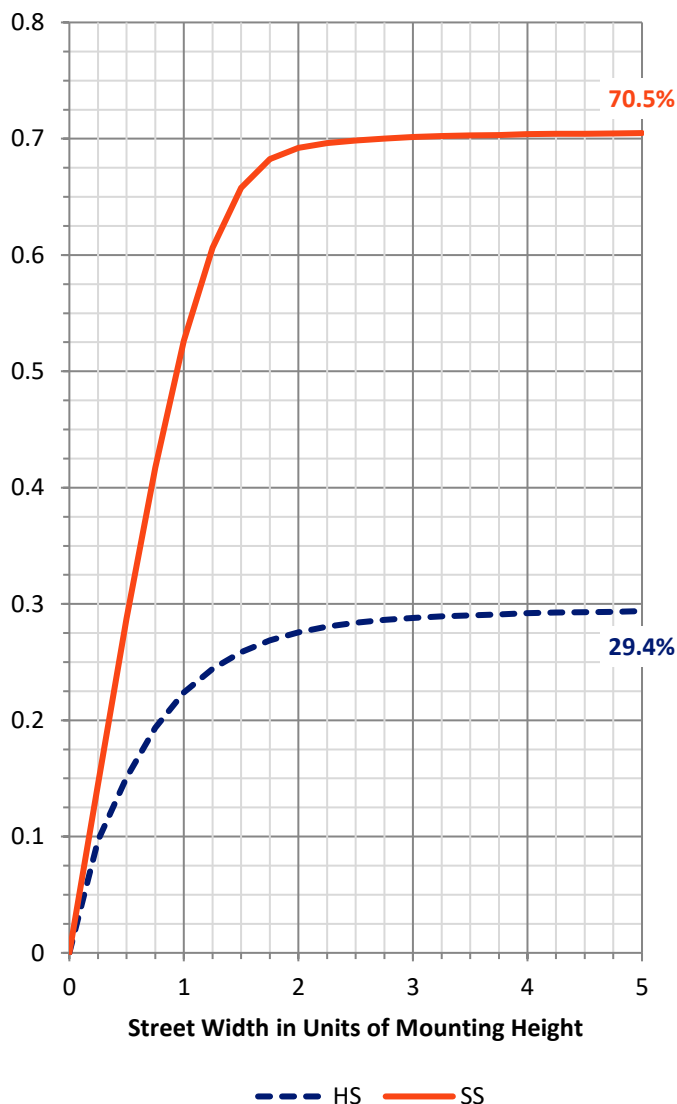
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1837.8	0.0	1837.8
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	4385.2	0.0	4385.2
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	6223.0	0.0	6223.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	2.3
10°-20°	396.2	6.4
20°-30°	677.8	10.9
30°-40°	1038.8	16.7
40°-50°	1403.9	22.6
50°-60°	1612.4	25.9
60°-70°	735.0	11.8
70°-80°	181.2	2.9
80°-90°	32.9	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°	6223.0	100.0
0°-180°	6223.0	100.0

**Coefficient of Utilization**

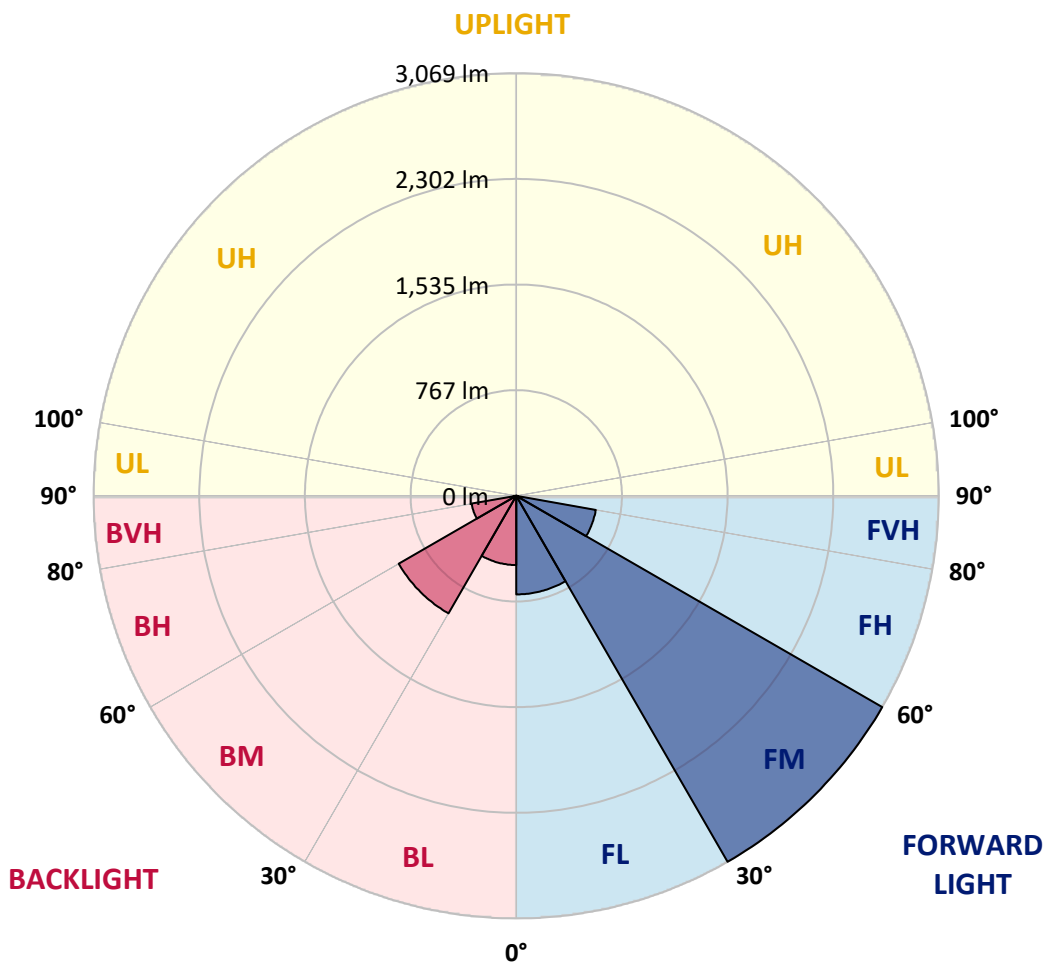


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	716.0	11.5			
FM	(30°-60°)	3069.4	49.3			
FH	(60°-80°)	586.7	9.4			G0/660
FVH	(80°-90°)	13.2	0.2			G1/100
BL	(0°-30°)	502.7	8.1	B2/1000		
BM	(30°-60°)	985.8	15.8	B1/1000		
BH	(60°-80°)	329.5	5.3	B1/500		G1/500
BVH	(80°-90°)	19.8	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°	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2
2.5°	1514.7	1510.8	1520.1	1527.1	1535.6	1546.5	1551.9	1555.0	1582.1	1575.2	1596.1
5°	1482.1	1472.1	1479.0	1484.5	1499.2	1512.4	1527.1	1550.4	1575.2	1586.0	1611.6
7.5°	1453.5	1448.0	1446.5	1450.4	1470.5	1487.6	1513.2	1547.3	1587.6	1605.4	1620.1
10°	1406.2	1398.4	1410.1	1435.6	1441.1	1476.7	1506.2	1555.0	1589.9	1620.9	1664.3
12.5°	1385.2	1377.5	1379.8	1394.5	1432.5	1466.6	1501.5	1556.6	1630.2	1642.6	1700.7
15°	1418.6	1410.8	1413.2	1409.3	1445.7	1463.5	1518.6	1587.6	1658.1	1679.0	1741.1
17.5°	1494.5	1495.3	1485.2	1476.7	1468.2	1506.2	1544.2	1606.2	1669.0	1721.7	1768.2
20°	1639.5	1613.9	1593.8	1545.7	1532.5	1548.8	1596.9	1656.6	1713.1	1756.6	1809.3
22.5°	1751.1	1753.5	1724.8	1645.7	1617.0	1624.0	1665.1	1713.9	1775.9	1806.9	1867.4
25°	1913.1	1896.9	1865.9	1803.1	1738.7	1744.2	1774.4	1818.6	1835.6	1857.3	1923.2
27.5°	2061.2	2065.9	2004.6	1945.7	1865.9	1850.4	1904.6	1912.4	1883.7	1924.8	1947.3
30°	2211.6	2207.7	2167.4	2098.4	2020.1	2023.2	2047.2	2009.3	1969.7	1992.2	2007.7
32.5°	2367.4	2323.2	2321.7	2259.6	2200.0	2171.3	2141.8	2160.4	2099.2	2103.8	2089.1
35°	2492.2	2498.4	2462.7	2418.6	2389.1	2338.7	2258.1	2291.4	2279.8	2274.4	2210.8
37.5°	2582.9	2558.9	2576.7	2562.0	2534.1	2471.3	2387.6	2419.3	2424.8	2451.1	2377.5
40°	2657.3	2647.2	2694.5	2702.3	2682.9	2547.2	2396.9	2491.4	2572.8	2630.2	2542.6
42.5°	2693.0	2714.7	2764.3	2824.0	2780.6	2635.6	2444.9	2546.5	2727.9	2818.6	2699.2
45°	2741.0	2713.1	2786.8	2896.1	2896.8	2710.0	2491.4	2620.9	2848.8	2980.6	2806.2
47.5°	2692.2	2706.2	2782.1	2920.9	2956.5	2788.3	2617.0	2726.3	2982.1	3099.2	2905.4
50°	2582.9	2610.8	2749.6	2893.7	3001.5	2871.3	2761.2	2840.3	3105.4	3194.5	2921.7
52.5°	2468.9	2484.5	2701.5	2914.7	3021.7	2978.2	2954.2	2997.6	3255.8	3302.3	2941.8
55°	2158.9	2232.5	2542.6	2905.4	3120.1	3171.3	3152.7	3216.2	3426.3	3472.8	3051.9
56°	2015.5	2054.2	2447.2	2862.0	3139.5	3241.8	3232.5	3261.2	3517.0	3565.8	3068.9
57.5°	1750.4	1753.5	2086.8	2669.7	3066.6	3262.7	3253.4	3275.9	3499.2	3465.8	2919.3
60°	1095.3	1143.4	1420.1	2053.5	2607.7	3027.1	3079.8	2899.2	2950.3	2879.8	2271.3
62.5°	567.4	560.5	744.2	1200.8	1731.0	2167.4	2216.2	2207.7	2128.6	2025.5	1483.7
65°	282.9	284.5	389.1	594.6	886.8	1134.9	1271.3	1286.0	1075.9	989.9	703.9
67.5°	205.4	213.2	279.8	363.6	417.8	467.4	572.9	562.0	425.6	404.6	375.2
70°	159.7	166.7	227.1	277.5	251.9	251.9	274.4	283.7	303.1	311.6	321.7
72.5°	116.3	121.7	173.6	191.5	165.1	177.5	205.4	227.1	247.3	250.4	262.0
75°	79.8	84.5	114.0	105.4	99.2	122.5	150.4	170.5	185.3	193.0	200.0
77.5°	51.9	53.5	65.1	55.0	63.6	79.1	97.7	114.7	129.5	135.7	137.2
80°	23.3	25.6	27.9	34.9	44.2	56.6	69.8	83.7	93.0	95.3	100.0
82.5°	13.2	13.2	17.1	24.8	32.6	41.1	50.4	60.5	71.3	73.6	72.9
85°	7.0	7.0	10.1	14.7	20.2	24.0	23.3	24.0	25.6	29.5	28.7
87.5°	2.3	2.3	3.1	3.1	3.9	4.7	3.9	5.4	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°	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2
2.5°	1589.9	1596.9	1587.6	1607.7	1607.7	1603.8	1584.5	1590.7	1595.3	1595.3	1599.2
5°	1620.1	1617.8	1624.0	1600.0	1585.2	1579.8	1548.0	1532.5	1519.4	1518.6	1506.9
7.5°	1637.2	1631.0	1628.7	1610.8	1545.7	1506.2	1438.0	1398.4	1389.9	1359.7	1371.3
10°	1664.3	1675.9	1664.3	1567.4	1476.7	1386.0	1319.4	1258.1	1234.1	1214.7	1203.1
12.5°	1720.1	1714.7	1647.3	1516.3	1389.1	1281.4	1182.1	1117.8	1093.8	1076.7	1075.2
15°	1767.4	1740.3	1637.2	1435.6	1252.7	1138.0	1056.6	1010.8	1000.0	1001.5	1008.5
17.5°	1783.7	1765.1	1584.5	1351.9	1151.1	1016.3	978.3	971.3	981.4	993.0	996.1
20°	1809.3	1779.8	1562.8	1238.0	1025.6	940.3	938.0	962.8	981.4	998.4	1000.8
22.5°	1862.8	1788.3	1492.2	1130.2	939.5	917.8	940.3	961.2	989.9	1003.9	991.5
25°	1878.3	1769.7	1393.0	1000.8	885.3	903.9	927.9	956.6	976.7	984.5	989.9
27.5°	1891.4	1741.1	1258.9	914.7	868.2	903.1	927.9	951.9	962.8	969.7	976.0
30°	1928.6	1732.5	1142.6	857.3	857.3	887.6	919.4	925.6	940.3	948.8	959.7
32.5°	1947.3	1673.6	1023.2	820.9	846.5	895.3	897.7	909.3	910.1	917.0	905.4
35°	1996.1	1631.8	912.4	794.6	851.1	887.6	899.2	892.2	854.2	835.6	839.5
37.5°	2031.7	1610.8	832.5	791.5	851.9	896.1	902.3	849.6	810.1	779.1	786.8
40°	2127.9	1558.9	772.1	786.0	858.9	905.4	888.4	831.0	759.7	727.9	722.5
42.5°	2201.5	1521.7	734.1	779.8	864.3	918.6	881.4	793.8	720.9	691.5	699.2
45°	2286.8	1513.2	713.9	781.4	873.6	925.6	872.9	765.1	687.6	676.0	673.6
47.5°	2317.0	1451.9	692.2	768.2	871.3	923.2	844.2	743.4	675.2	676.7	682.9
50°	2266.6	1389.1	676.0	741.1	855.8	902.3	799.2	714.7	668.2	687.6	698.4
52.5°	2202.3	1324.8	642.6	704.6	824.0	869.8	778.3	713.2	661.2	655.0	657.4
55°	2221.7	1272.1	596.1	655.0	772.9	809.3	755.0	698.4	644.2	620.9	628.7
56°	2158.9	1217.8	565.9	624.0	738.0	770.5	743.4	685.3	630.2	614.7	614.7
57.5°	1981.4	1035.6	526.3	574.4	664.3	703.1	720.9	677.5	614.7	587.6	588.4
60°	1461.2	736.4	472.1	506.2	550.4	581.4	664.3	655.8	576.0	557.4	550.4
62.5°	900.8	538.0	433.3	446.5	469.0	494.6	579.8	593.8	534.9	514.7	510.1
65°	504.6	411.6	403.9	409.3	420.1	433.3	481.4	512.4	472.1	441.1	439.5
67.5°	369.0	368.2	374.4	379.1	383.7	383.7	395.3	407.7	402.3	377.5	375.2
70°	327.9	330.2	334.9	335.7	337.2	331.8	322.5	318.6	324.8	309.3	306.2
72.5°	270.5	278.3	283.7	284.5	276.0	269.0	256.6	243.4	238.8	235.7	234.9
75°	207.7	213.2	215.5	214.7	211.6	201.5	186.8	173.6	165.1	155.8	160.5
77.5°	140.3	148.1	151.9	151.9	147.3	131.8	124.8	114.7	106.2	96.1	97.7
80°	98.4	103.9	110.1	109.3	101.5	93.8	83.7	74.4	67.4	59.7	58.9
82.5°	73.6	76.7	79.8	78.3	72.9	65.1	58.1	49.6	41.9	36.4	36.4
85°	26.4	28.7	34.9	36.4	39.5	39.5	33.3	27.9	22.5	18.6	18.6
87.5°	7.8	7.8	8.5	8.5	7.8	8.5	7.0	7.8	8.5	5.4	5.4
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)