

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: P650680

Luminaire Tested: **GALN-SA1C-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5071.2 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

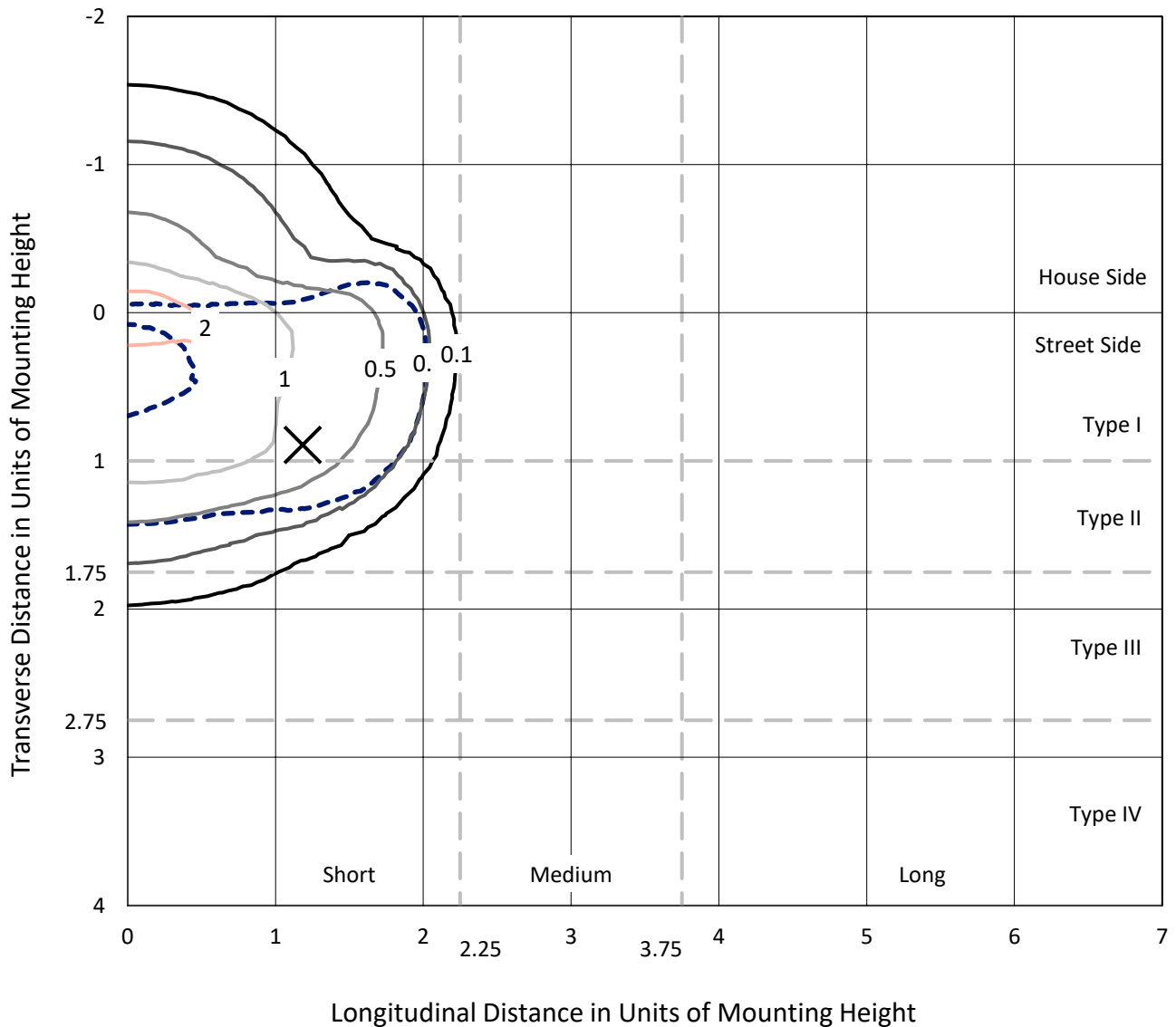
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

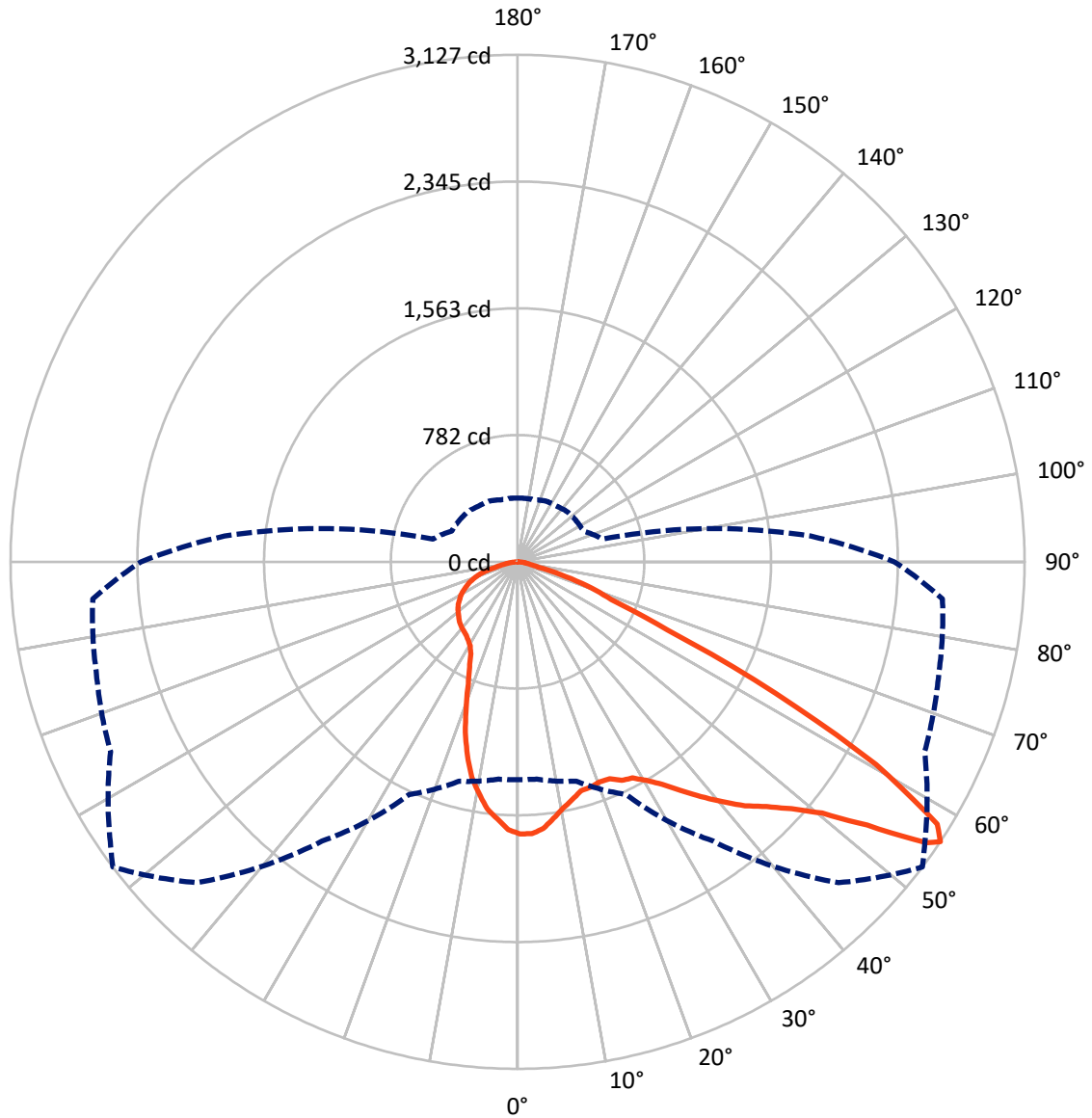
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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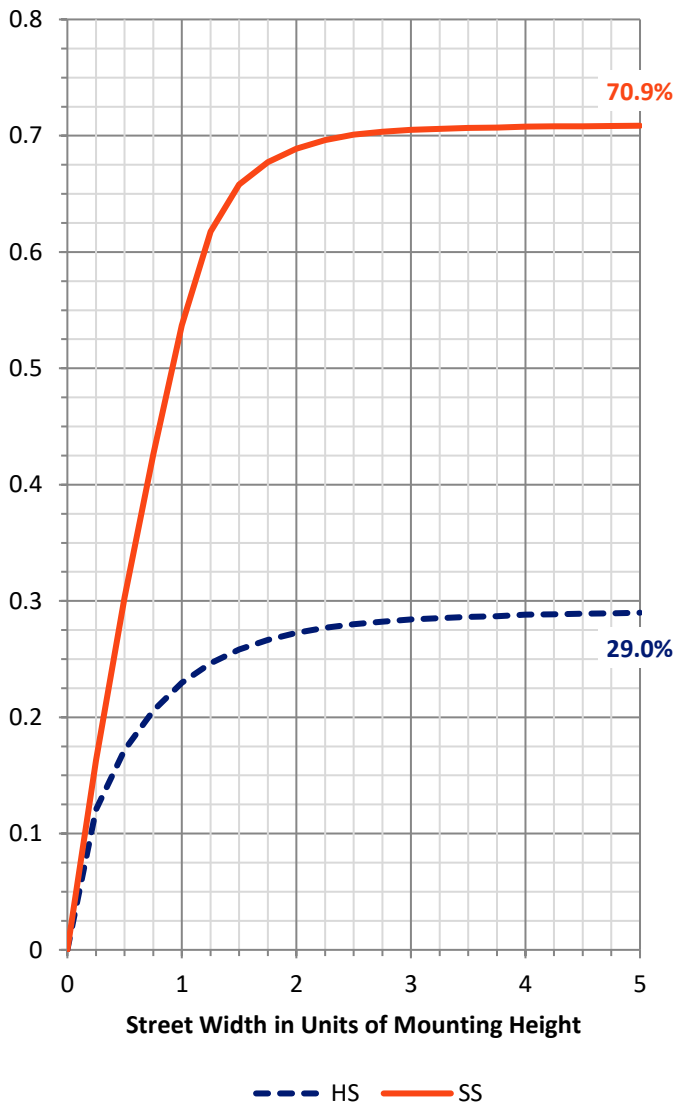
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1479.9	0.0	1479.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	3591.3	0.0	3591.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	5071.2	0.0	5071.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	2.9
10°-20°	371.0	7.3
20°-30°	547.0	10.8
30°-40°	781.6	15.4
40°-50°	1075.7	21.2
50°-60°	1271.2	25.1
60°-70°	677.5	13.4
70°-80°	171.9	3.4
80°-90°	26.8	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°	5071.2	100.0
0°-180°	5071.2	100.0

Coefficient of Utilization



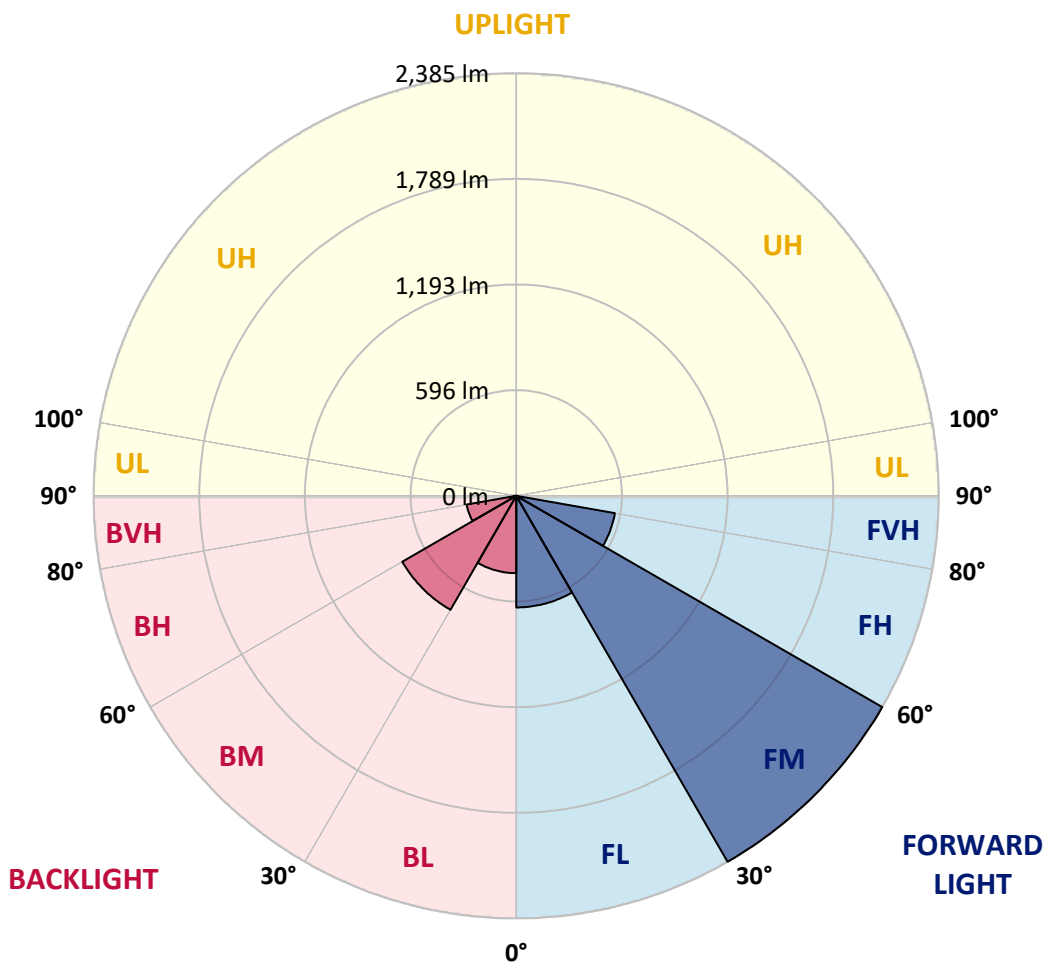
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.0	12.4			
FM (30°-60°)	2385.4	47.0			
FH (60°-80°)	565.1	11.1			G0/660
FVH (80°-90°)	10.8	0.2			G1/100
BL (0°-30°)	436.5	8.6	B1/500		
BM (30°-60°)	743.2	14.7	B1/1000		
BH (60°-80°)	284.2	5.6	B1/500		G1/500
BVH (80°-90°)	16.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8
2.5°	1656.9	1642.6	1651.1	1647.9	1674.5	1682.3	1678.4	1681.7	1696.6	1689.5	1674.5
5°	1548.3	1568.5	1572.3	1582.2	1597.7	1628.3	1652.4	1658.9	1666.0	1699.2	1696.0
7.5°	1449.4	1463.1	1455.9	1484.5	1518.3	1567.8	1597.1	1602.3	1668.0	1686.2	1699.9
10°	1387.0	1373.3	1405.8	1413.6	1452.0	1508.6	1543.7	1565.2	1625.1	1697.3	1705.7
12.5°	1329.0	1324.5	1344.0	1366.1	1409.1	1467.6	1503.5	1511.9	1604.3	1680.4	1720.0
15°	1286.1	1280.9	1300.4	1316.7	1366.8	1418.9	1464.3	1488.5	1581.5	1670.6	1707.7
17.5°	1252.3	1251.7	1262.7	1292.0	1343.4	1387.0	1460.5	1461.7	1569.8	1685.5	1718.1
20°	1250.3	1249.7	1251.7	1284.2	1331.1	1384.4	1448.1	1459.8	1569.8	1675.2	1718.8
22.5°	1266.6	1256.2	1267.9	1288.7	1322.6	1388.9	1452.7	1478.7	1607.5	1726.6	1748.0
25°	1292.6	1295.2	1301.8	1308.9	1328.4	1399.3	1493.0	1514.5	1651.7	1770.8	1788.4
27.5°	1340.1	1338.8	1341.4	1345.3	1362.3	1409.1	1509.3	1564.6	1744.1	1849.5	1832.0
30°	1409.8	1405.1	1415.6	1429.3	1413.6	1440.3	1563.3	1604.9	1830.0	1928.8	1880.7
32.5°	1472.8	1489.7	1509.3	1515.1	1496.2	1501.4	1634.8	1677.1	1901.6	2026.5	1940.6
35°	1551.6	1565.2	1591.3	1609.4	1606.2	1590.6	1732.4	1788.4	2005.0	2098.0	2003.7
37.5°	1628.3	1644.6	1687.6	1741.5	1711.6	1704.5	1836.5	1882.7	2036.9	2136.4	2049.9
40°	1751.9	1751.3	1825.5	1853.4	1880.1	1867.7	1944.5	1960.1	2053.8	2128.0	2051.2
42.5°	1897.0	1887.9	1963.3	2007.0	2041.4	2042.7	2057.0	2051.8	2061.6	2085.0	2037.5
45°	2034.9	2054.4	2130.5	2208.6	2243.1	2247.0	2152.0	2142.3	2075.3	2072.6	2011.5
47.5°	2203.4	2208.0	2270.4	2373.2	2453.2	2425.9	2275.0	2253.5	2135.1	2155.2	2055.1
50°	2213.2	2247.0	2302.9	2423.9	2669.8	2662.7	2434.4	2394.0	2231.3	2272.4	2176.8
52.5°	2008.9	2001.1	2067.4	2265.2	2653.6	2898.2	2698.4	2602.2	2438.2	2407.0	2373.9
55°	1530.7	1549.0	1607.5	1807.2	2304.3	2901.4	3058.2	2979.5	2659.4	2606.1	2567.7
56°	1342.7	1345.3	1400.6	1582.8	2102.6	2798.0	3126.5	3062.8	2769.4	2688.1	2629.6
57.5°	1113.1	1098.1	1126.8	1226.3	1774.7	2579.4	3051.7	3114.1	2898.2	2776.6	2695.2
60°	876.3	873.0	861.4	879.5	1121.6	1943.2	2540.4	2680.9	2885.2	2693.3	2581.4
62.5°	715.6	699.4	722.8	748.7	779.4	1205.5	1785.1	1867.7	2290.5	2150.1	1939.3
65°	554.9	547.1	576.4	660.9	679.2	765.7	1016.8	1080.6	1352.5	1328.4	1169.7
67.5°	381.9	383.2	408.6	537.3	629.7	621.9	622.6	655.7	705.9	524.4	456.7
70°	242.0	241.4	255.0	346.1	506.8	512.0	485.9	476.2	451.4	273.2	289.5
72.5°	155.5	151.0	158.1	191.2	262.1	303.2	312.3	318.2	261.6	214.7	232.9
75°	87.8	83.3	80.7	89.1	103.4	119.7	131.4	135.3	151.5	162.6	172.4
77.5°	26.7	24.1	29.3	39.0	51.4	69.0	83.9	86.5	102.1	115.1	124.9
80°	11.7	13.0	18.2	26.0	36.4	48.8	59.2	63.1	73.5	83.3	85.9
82.5°	7.1	7.8	12.4	17.6	25.4	34.5	42.3	43.6	54.0	61.8	63.7
85°	2.6	3.3	6.5	10.4	16.2	22.1	22.1	24.1	22.1	22.1	24.1
87.5°	0.0	0.0	0.7	1.3	1.3	1.9	2.6	2.6	3.3	3.9	4.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8
2.5°	1682.3	1679.1	1673.8	1655.0	1653.1	1647.2	1614.6	1609.4	1614.6	1599.1	1600.3
5°	1679.1	1688.8	1649.8	1631.0	1595.8	1570.4	1541.1	1526.2	1499.5	1482.6	1501.4
7.5°	1693.4	1689.5	1640.7	1599.7	1547.0	1482.6	1431.2	1401.9	1355.1	1342.1	1351.8
10°	1688.1	1667.4	1610.1	1556.1	1456.6	1400.0	1316.7	1236.0	1191.8	1169.1	1165.8
12.5°	1681.0	1675.2	1579.6	1486.5	1381.8	1262.7	1145.6	1069.5	997.3	966.1	970.6
15°	1689.5	1640.0	1522.3	1404.6	1265.3	1109.2	983.0	884.7	834.7	814.5	814.5
17.5°	1685.5	1623.1	1495.0	1312.8	1136.5	951.8	813.2	754.0	733.2	733.2	739.0
20°	1687.6	1634.1	1439.6	1221.0	984.3	801.5	700.6	679.2	688.3	691.6	694.8
22.5°	1698.6	1597.7	1385.6	1120.2	843.1	685.7	636.2	636.9	653.1	670.7	667.5
25°	1712.3	1583.4	1319.9	1020.0	735.1	629.1	613.4	611.5	623.9	633.0	634.3
27.5°	1700.5	1558.7	1252.9	895.2	646.6	591.3	588.1	589.4	593.3	611.5	605.7
30°	1738.9	1565.9	1169.1	790.5	597.9	579.0	575.1	573.1	579.0	584.2	579.6
32.5°	1786.4	1540.5	1106.6	689.6	573.8	569.9	562.0	559.4	562.7	557.5	560.1
35°	1807.2	1535.9	1025.3	617.4	554.9	551.7	547.1	546.5	547.1	542.5	538.7
37.5°	1818.9	1557.4	932.2	584.2	543.2	546.5	536.1	534.8	523.0	525.6	527.6
40°	1839.1	1524.2	856.8	552.3	536.1	529.6	520.4	518.5	510.7	506.1	510.7
42.5°	1809.8	1514.5	782.6	538.7	525.6	518.5	512.0	500.9	498.3	494.4	491.8
45°	1786.4	1458.5	716.3	521.8	513.3	509.4	497.0	485.3	475.6	479.5	473.6
47.5°	1803.9	1439.0	650.5	507.5	496.4	491.8	479.5	470.4	460.6	456.1	454.7
50°	1874.3	1475.5	595.3	497.0	482.1	479.5	463.2	452.8	443.7	440.4	441.7
52.5°	2042.0	1574.9	557.5	475.6	468.4	456.7	447.6	434.5	428.7	418.3	424.8
55°	2254.8	1737.0	547.7	455.4	451.4	441.1	428.7	419.0	407.9	399.5	397.5
56°	2323.1	1814.4	539.9	447.6	441.1	435.2	419.0	413.1	395.5	393.6	392.2
57.5°	2378.4	1882.7	541.3	432.6	426.1	420.9	411.2	396.9	385.1	377.9	381.2
60°	2253.5	1762.3	516.5	409.8	408.6	398.8	385.1	378.6	364.3	355.8	353.9
62.5°	1675.2	1196.3	419.0	380.6	379.9	369.5	353.9	346.7	344.1	332.4	332.4
65°	964.8	750.1	362.4	356.5	351.3	340.9	325.3	319.4	312.9	309.0	305.8
67.5°	411.8	389.0	329.2	328.5	322.7	309.7	294.0	284.9	276.5	268.7	272.6
70°	298.6	303.2	297.3	294.0	286.9	270.6	256.9	245.9	232.9	227.7	231.6
72.5°	236.8	246.6	255.0	255.7	247.2	228.3	213.4	198.4	184.1	176.9	180.2
75°	179.6	186.0	194.5	196.5	184.1	171.1	156.8	141.2	130.1	121.7	123.0
77.5°	129.4	128.2	136.0	134.6	128.8	119.7	106.7	92.3	80.0	72.2	72.8
80°	88.5	90.4	94.9	94.4	87.2	81.3	71.6	59.9	50.7	44.2	43.0
82.5°	61.8	65.1	69.0	65.7	59.9	54.0	46.8	38.3	31.2	26.0	24.7
85°	22.1	25.4	29.3	31.2	33.2	31.9	26.7	21.4	15.6	13.0	12.4
87.5°	4.5	5.2	5.9	5.9	5.9	5.2	4.5	4.5	3.9	1.9	1.9
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)