

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: P526750

Luminaire Tested: **GALN-SA1D-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526750
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-SA1D-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA 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: 5548 lumens
Efficiency: N/A
Efficacy: 85.4 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

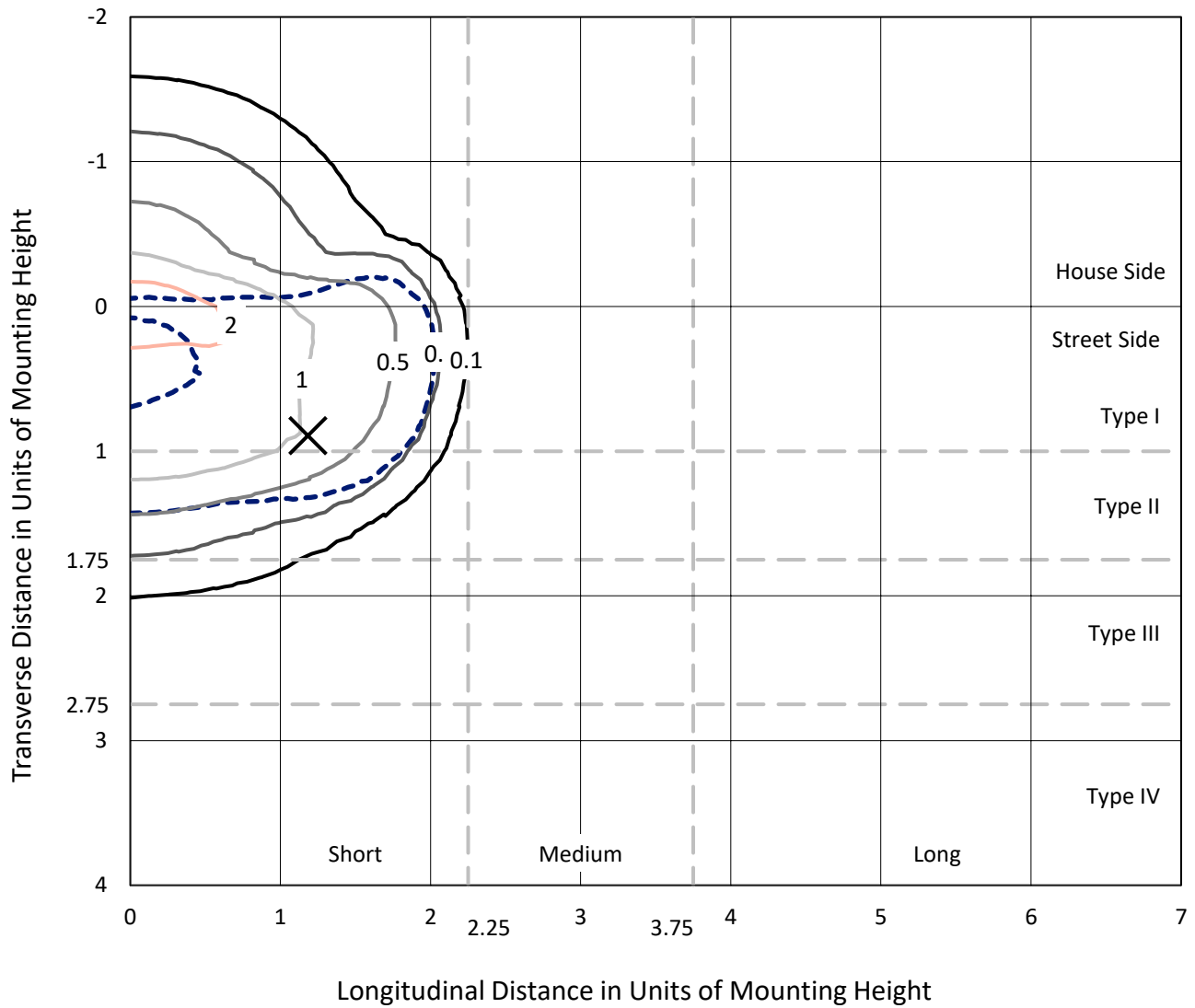
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

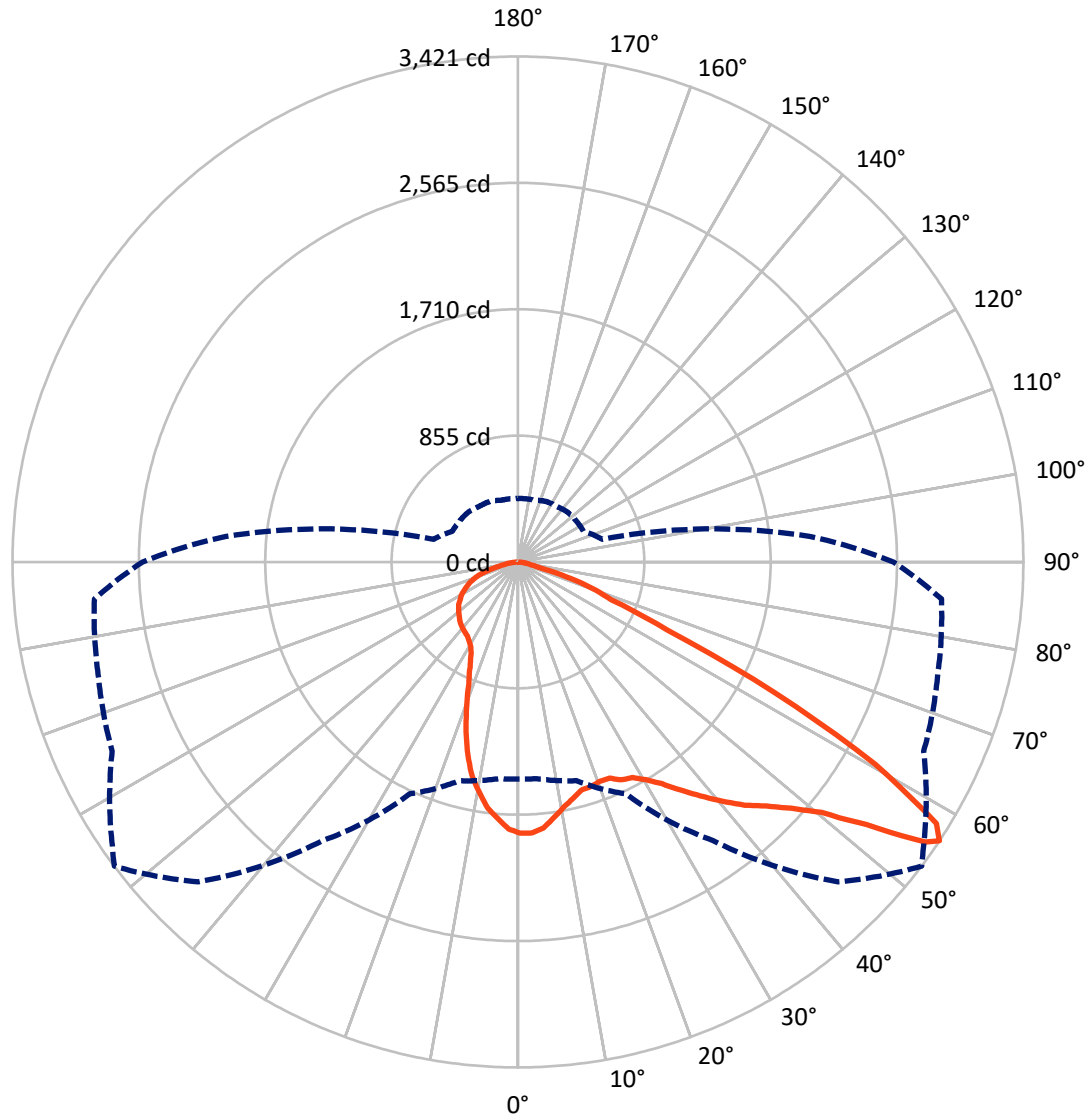
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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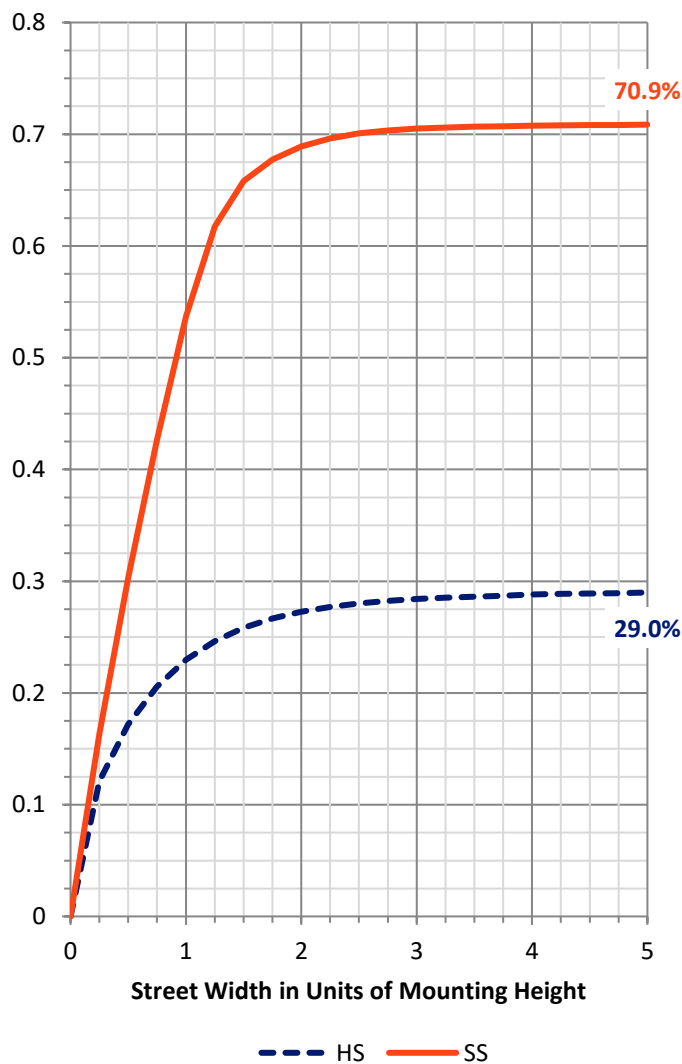
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1619.0	0.0	1619.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	3929.0	0.0	3929.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	5548.0	0.0	5548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	2.9
10°-20°	405.8	7.3
20°-30°	598.4	10.8
30°-40°	855.1	15.4
40°-50°	1176.9	21.2
50°-60°	1390.8	25.1
60°-70°	741.2	13.4
70°-80°	188.0	3.4
80°-90°	29.3	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°	5548.0	100.0
0°-180°	5548.0	100.0

Coefficient of Utilization

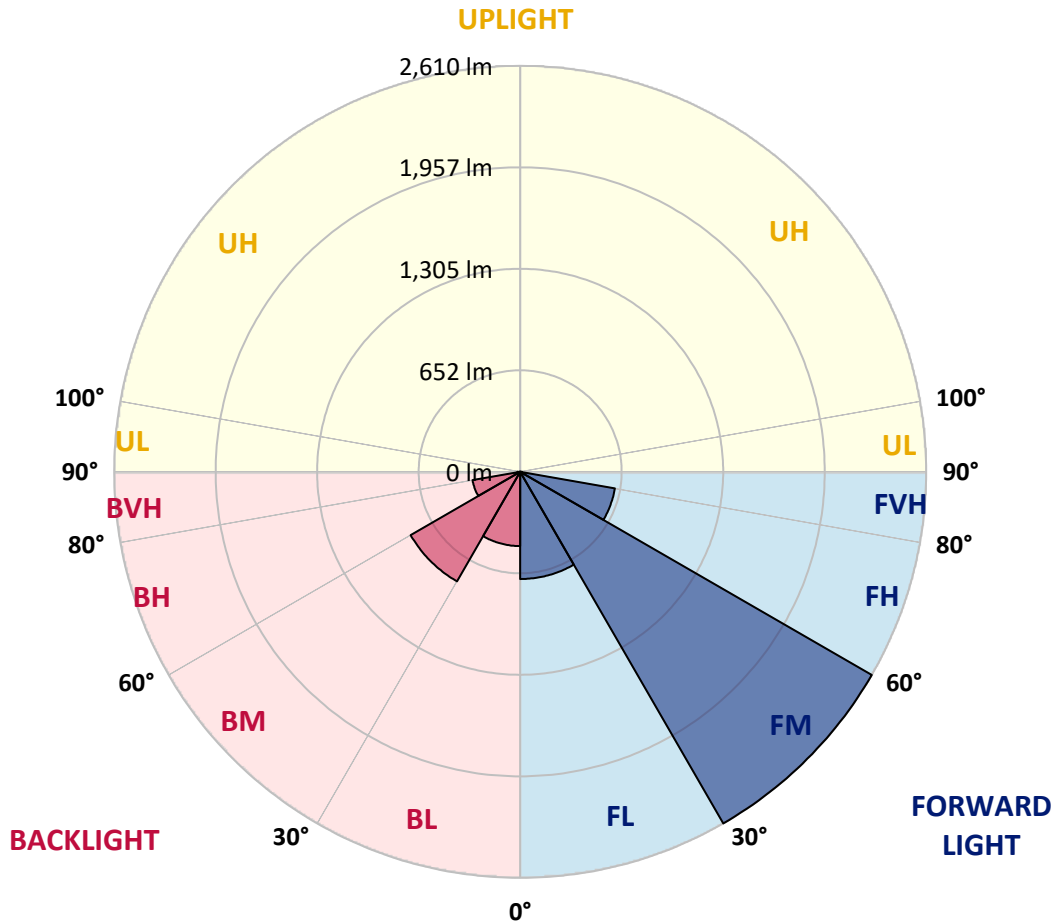


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.3	12.4			
FM (30°-60°)	2609.7	47.0			
FH (60°-80°)	618.3	11.1			G0/660
FVH (80°-90°)	11.8	0.2			G1/100
BL (0°-30°)	477.5	8.6	B1/500		
BM (30°-60°)	813.0	14.7	B1/1000		
BH (60°-80°)	310.9	5.6	B1/500		G1/500
BVH (80°-90°)	17.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5
2.5°	1812.7	1797.1	1806.3	1802.8	1831.9	1840.5	1836.2	1839.8	1856.1	1848.3	1831.9
5°	1693.9	1715.9	1720.2	1730.9	1748.0	1781.4	1807.7	1814.9	1822.7	1859.0	1855.4
7.5°	1585.7	1600.6	1592.8	1624.1	1661.1	1715.2	1747.2	1752.9	1824.8	1844.7	1859.7
10°	1517.4	1502.4	1538.0	1546.5	1588.5	1650.5	1688.9	1712.4	1777.8	1856.8	1866.1
12.5°	1454.0	1449.0	1470.4	1494.6	1541.6	1605.6	1644.8	1654.0	1755.1	1838.3	1881.8
15°	1407.0	1401.4	1422.7	1440.5	1495.3	1552.2	1602.1	1628.4	1730.2	1827.7	1868.2
17.5°	1370.0	1369.3	1381.4	1413.5	1469.7	1517.4	1597.8	1599.2	1717.4	1844.0	1879.6
20°	1367.9	1367.2	1369.3	1404.9	1456.2	1514.5	1584.3	1597.1	1717.4	1832.7	1880.3
22.5°	1385.7	1374.3	1387.1	1409.9	1446.9	1519.5	1589.2	1617.7	1758.6	1888.9	1912.4
25°	1414.2	1417.0	1424.1	1432.0	1453.3	1530.9	1633.4	1656.9	1807.0	1937.3	1956.5
27.5°	1466.1	1464.7	1467.5	1471.8	1490.3	1541.6	1651.2	1711.7	1908.1	2023.4	2004.2
30°	1542.3	1537.3	1548.7	1563.6	1546.5	1575.7	1710.2	1755.8	2002.0	2110.2	2057.6
32.5°	1611.3	1629.8	1651.2	1657.6	1636.9	1642.6	1788.5	1834.8	2080.3	2217.0	2123.0
35°	1697.4	1712.4	1740.8	1760.8	1757.2	1740.1	1895.3	1956.5	2193.5	2295.3	2192.1
37.5°	1781.4	1799.2	1846.2	1905.2	1872.5	1864.7	2009.2	2059.7	2228.4	2337.3	2242.6
40°	1916.6	1915.9	1997.1	2027.7	2056.8	2043.3	2127.3	2144.4	2246.9	2328.0	2244.0
42.5°	2075.3	2065.4	2147.9	2195.6	2233.3	2234.8	2250.4	2244.7	2255.4	2281.0	2229.1
45°	2226.2	2247.6	2330.8	2416.3	2454.0	2458.2	2354.3	2343.7	2270.4	2267.5	2200.6
47.5°	2410.6	2415.5	2483.9	2596.3	2683.9	2654.0	2488.8	2465.4	2335.8	2357.9	2248.3
50°	2421.2	2458.2	2519.4	2651.8	2920.9	2913.0	2663.2	2619.1	2441.2	2486.0	2381.4
52.5°	2197.8	2189.2	2261.8	2478.2	2903.1	3170.7	2952.2	2846.8	2667.5	2633.3	2597.0
55°	1674.7	1694.6	1758.6	1977.1	2520.9	3174.2	3345.7	3259.6	2909.5	2851.1	2809.1
56°	1469.0	1471.8	1532.3	1731.6	2300.2	3061.1	3420.5	3350.7	3029.7	2940.8	2876.7
57.5°	1217.7	1201.4	1232.7	1341.6	1941.5	2821.9	3338.6	3407.0	3170.7	3037.6	2948.6
60°	958.7	955.1	942.3	962.2	1227.0	2125.9	2779.2	2933.0	3156.4	2946.5	2824.1
62.5°	782.9	765.1	790.7	819.2	852.6	1318.8	1952.9	2043.3	2505.9	2352.2	2121.6
65°	607.1	598.5	630.6	723.1	743.0	837.7	1112.4	1182.1	1479.6	1453.3	1279.7
67.5°	417.8	419.2	447.0	587.9	688.9	680.4	681.1	717.4	772.2	573.6	499.6
70°	264.8	264.0	279.0	378.6	554.4	560.1	531.6	521.0	493.9	298.9	316.7
72.5°	170.1	165.1	172.9	209.2	286.8	331.7	341.6	348.0	286.1	234.9	254.8
75°	96.1	91.1	88.3	97.5	113.2	131.0	143.8	148.0	165.8	177.9	188.6
77.5°	29.2	26.3	32.0	42.7	56.2	75.4	91.8	94.7	111.7	126.0	136.6
80°	12.8	14.2	19.9	28.5	39.9	53.4	64.8	69.0	80.4	91.1	93.9
82.5°	7.8	8.5	13.5	19.2	27.8	37.7	46.3	47.7	59.1	67.6	69.7
85°	2.8	3.6	7.1	11.4	17.8	24.2	24.2	26.3	24.2	24.2	26.3
87.5°	0.0	0.0	0.7	1.4	1.4	2.1	2.8	2.8	3.6	4.3	5.0
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°	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5
2.5°	1840.5	1836.9	1831.2	1810.6	1808.5	1802.0	1766.5	1760.8	1766.5	1749.4	1750.8
5°	1836.9	1847.6	1804.9	1784.3	1745.8	1718.1	1686.0	1669.7	1640.5	1622.0	1642.6
7.5°	1852.6	1848.3	1794.9	1750.1	1692.4	1622.0	1565.8	1533.7	1482.5	1468.3	1478.9
10°	1846.9	1824.1	1761.5	1702.4	1593.5	1531.6	1440.5	1352.2	1303.9	1278.9	1275.4
12.5°	1839.1	1832.7	1728.0	1626.3	1511.7	1381.4	1253.3	1170.0	1091.0	1056.9	1061.9
15°	1848.3	1794.2	1665.4	1536.6	1384.3	1213.5	1075.4	967.9	913.1	891.1	891.1
17.5°	1844.0	1775.7	1635.5	1436.2	1243.4	1041.2	889.6	824.9	802.1	802.1	808.5
20°	1846.2	1787.8	1575.0	1335.9	1076.8	876.8	766.5	743.0	753.0	756.5	760.1
22.5°	1858.3	1748.0	1515.9	1225.6	922.4	750.1	696.1	696.8	714.6	733.8	730.2
25°	1873.2	1732.3	1444.1	1116.0	804.2	688.2	671.1	669.0	682.5	692.5	693.9
27.5°	1860.4	1705.3	1370.8	979.3	707.4	646.9	643.4	644.8	649.1	669.0	662.6
30°	1902.4	1713.1	1278.9	864.7	654.1	633.4	629.2	627.0	633.4	639.1	634.1
32.5°	1954.4	1685.3	1210.6	754.4	627.7	623.5	614.9	612.1	615.6	609.9	612.8
35°	1977.1	1680.3	1121.7	675.4	607.1	603.5	598.5	597.8	598.5	593.6	589.3
37.5°	1989.9	1703.8	1019.9	639.1	594.3	597.8	586.4	585.0	572.2	575.1	577.2
40°	2012.0	1667.5	937.3	604.2	586.4	579.3	569.4	567.2	558.7	553.7	558.7
42.5°	1980.0	1656.9	856.2	589.3	575.1	567.2	560.1	548.0	545.2	540.9	538.1
45°	1954.4	1595.7	783.6	570.8	561.5	557.3	543.7	530.9	520.3	524.5	518.1
47.5°	1973.6	1574.3	711.7	555.1	543.0	538.1	524.5	514.6	503.9	498.9	497.5
50°	2050.4	1614.2	651.2	543.7	527.4	524.5	506.7	495.3	485.4	481.8	483.3
52.5°	2234.1	1723.0	609.9	520.3	512.4	499.6	489.7	475.4	469.0	457.6	464.7
55°	2466.8	1900.3	599.3	498.2	493.9	482.5	469.0	458.3	446.2	437.0	434.9
56°	2541.5	1985.0	590.7	489.7	482.5	476.1	458.3	451.9	432.7	430.6	429.2
57.5°	2602.0	2059.7	592.1	473.3	466.2	460.5	449.8	434.1	421.3	413.5	417.1
60°	2465.4	1928.0	565.1	448.4	447.0	436.3	421.3	414.2	398.6	389.3	387.2
62.5°	1832.7	1308.8	458.3	416.3	415.6	404.3	387.2	379.3	376.5	363.7	363.7
65°	1055.5	820.6	396.4	390.0	384.3	372.9	355.9	349.4	342.3	338.1	334.5
67.5°	450.5	425.6	360.1	359.4	353.0	338.8	321.7	311.7	302.5	293.9	298.2
70°	326.7	331.7	325.3	321.7	313.9	296.1	281.1	269.0	254.8	249.1	253.4
72.5°	259.1	269.7	279.0	279.7	270.4	249.8	233.4	217.1	201.4	193.6	197.1
75°	196.4	203.5	212.8	214.9	201.4	187.2	171.5	154.4	142.3	133.1	134.5
77.5°	141.6	140.2	148.7	147.3	140.9	131.0	116.7	101.1	87.5	79.0	79.7
80°	96.8	98.9	103.9	103.2	95.4	89.0	78.3	65.5	55.5	48.4	47.0
82.5°	67.6	71.2	75.4	71.9	65.5	59.1	51.2	42.0	34.2	28.5	27.0
85°	24.2	27.8	32.0	34.2	36.3	34.9	29.2	23.5	17.1	14.2	13.5
87.5°	5.0	5.7	6.4	6.4	6.4	5.7	5.0	5.0	4.3	2.1	2.1
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)