

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: P650684

Luminaire Tested: **GALN-SA1C-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
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-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5061.1 lumens
Efficiency: N/A
Efficacy: 88.8 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

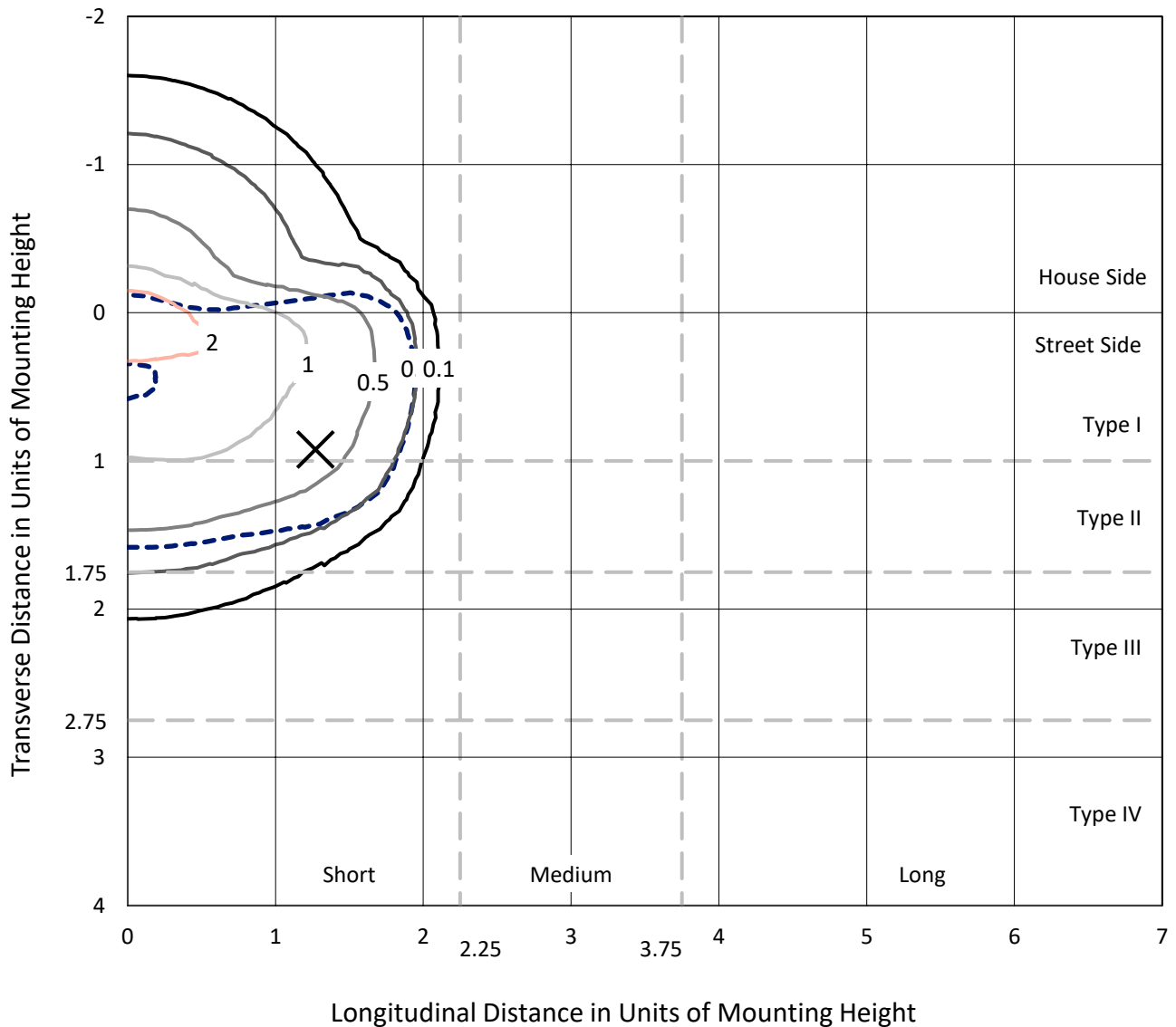
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

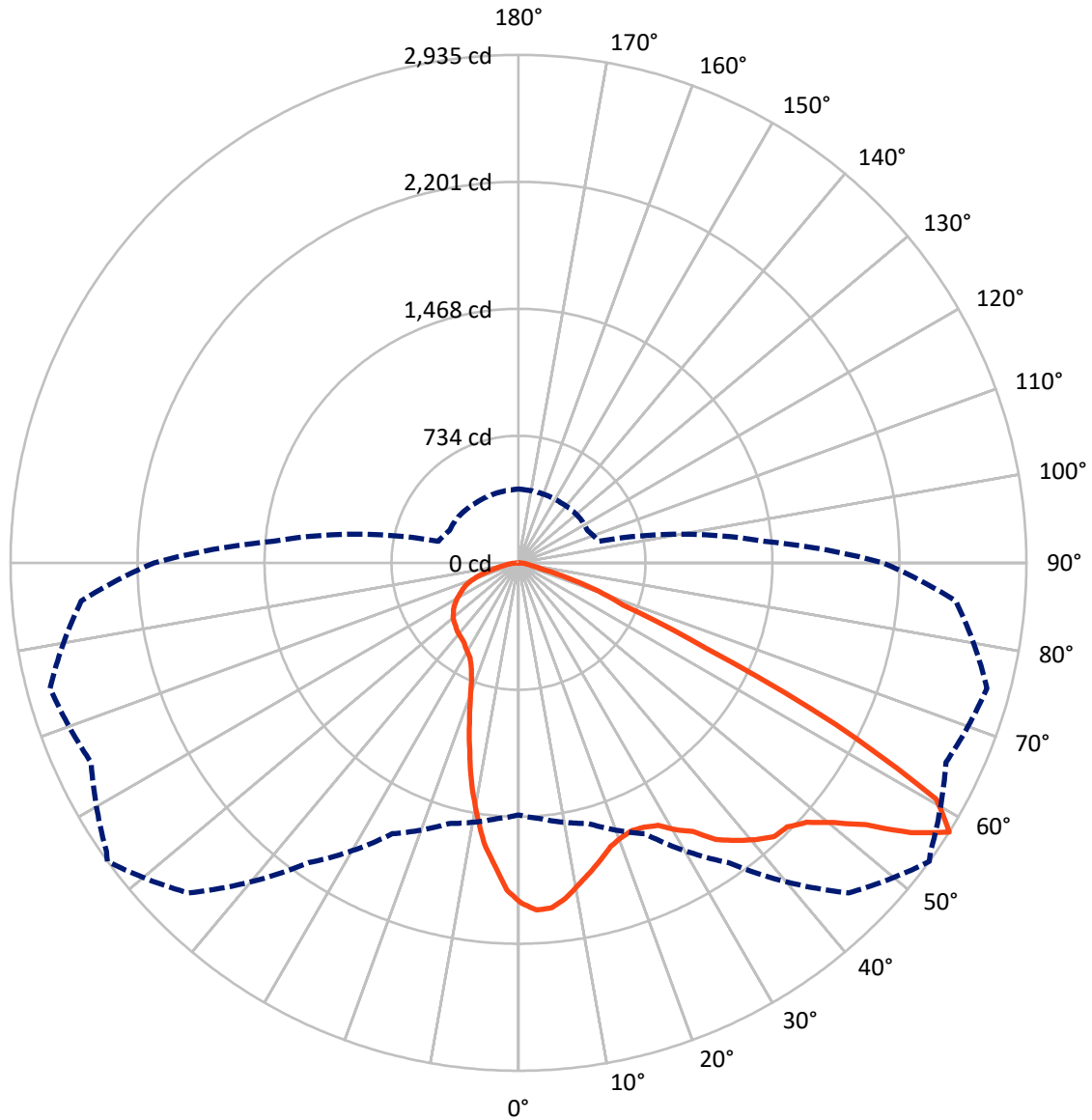
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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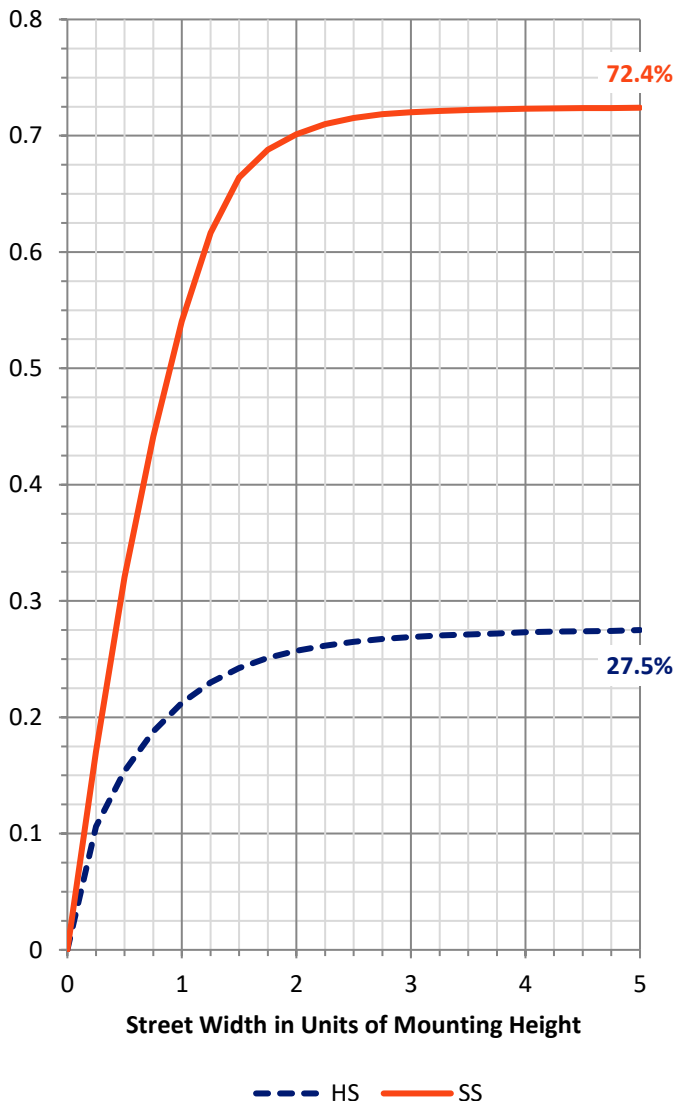
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1400.2	0.0	1400.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	3660.9	0.0	3660.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	5061.1	0.0	5061.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	3.4
10°-20°	392.8	7.8
20°-30°	551.9	10.9
30°-40°	771.6	15.2
40°-50°	1044.5	20.6
50°-60°	1272.3	25.1
60°-70°	662.7	13.1
70°-80°	169.8	3.4
80°-90°	25.9	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°	5061.1	100.0
0°-180°	5061.1	100.0

Coefficient of Utilization

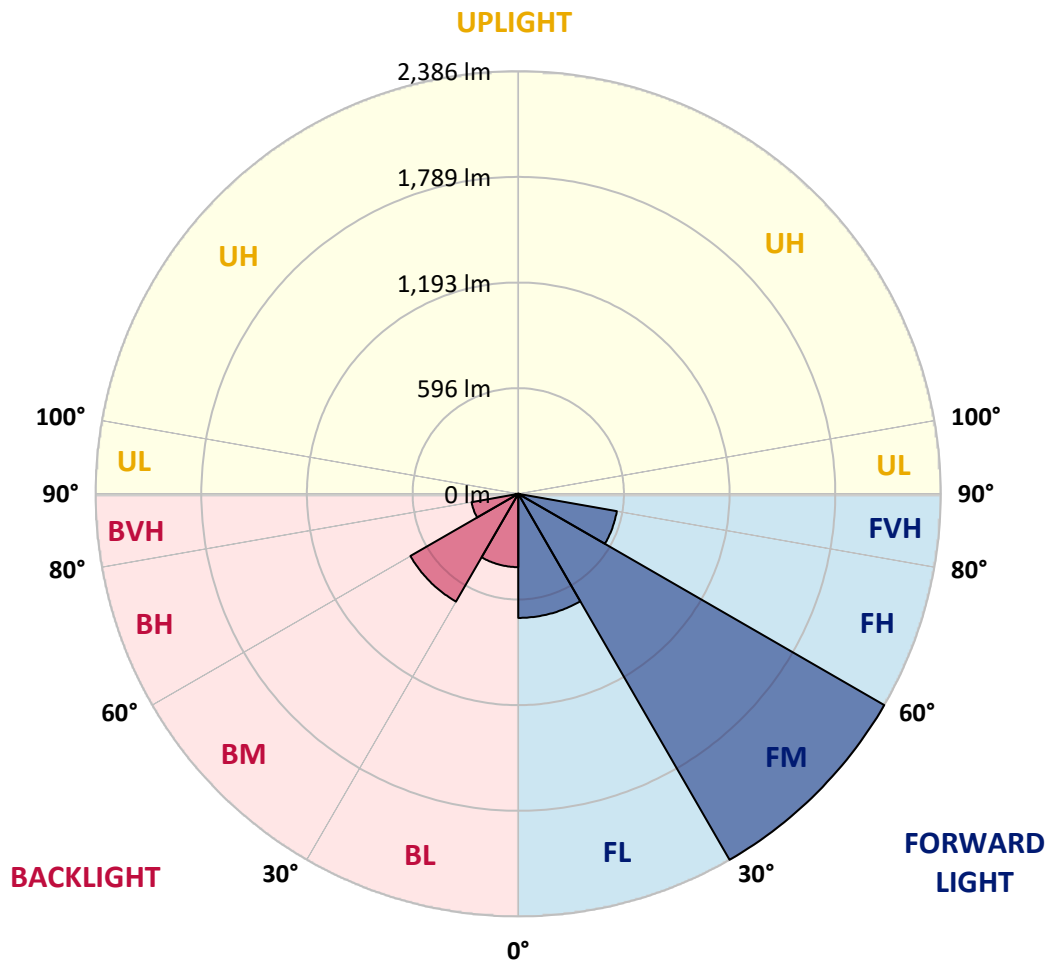


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	700.5	13.8			
FM (30°-60°)	2385.7	47.1			
FH (60°-80°)	565.0	11.2			G0/660
FVH (80°-90°)	9.8	0.2			G0/10
BL (0°-30°)	413.8	8.2	B1/500		
BM (30°-60°)	702.7	13.9	B1/1000		
BH (60°-80°)	267.5	5.3	B1/500		G1/500
BVH (80°-90°)	16.1	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°	54°	55°	65°	75°	85°
0°	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2
2.5°	2023.2	2015.4	2016.6	2027.1	2014.0	2008.8	2008.8	1983.5	1985.4	1967.9	1963.3
5°	1976.4	1958.1	1970.5	1986.1	1988.7	1993.8	2002.3	1995.9	1977.6	1958.8	1928.2
7.5°	1854.0	1870.3	1874.8	1885.9	1909.3	1930.8	1957.4	1939.3	1938.6	1919.8	1901.5
10°	1746.7	1736.9	1761.6	1777.9	1816.9	1852.7	1893.7	1891.7	1901.5	1880.1	1848.8
12.5°	1640.0	1632.2	1643.9	1681.0	1735.7	1787.6	1836.4	1818.2	1870.3	1866.3	1799.4
15°	1526.8	1532.6	1549.5	1584.0	1655.6	1718.1	1779.9	1780.5	1826.7	1842.3	1752.6
17.5°	1447.4	1440.9	1462.4	1513.8	1577.5	1652.3	1722.6	1736.9	1807.8	1816.9	1738.2
20°	1388.2	1397.3	1425.3	1451.3	1524.8	1615.3	1694.6	1699.8	1803.9	1828.7	1715.5
22.5°	1373.9	1368.7	1377.8	1420.1	1480.6	1578.8	1679.6	1699.2	1803.3	1824.7	1672.5
25°	1359.0	1375.9	1375.2	1417.5	1461.7	1549.5	1692.0	1713.5	1837.8	1844.9	1678.4
27.5°	1392.8	1390.8	1409.0	1412.3	1467.0	1557.4	1718.1	1734.3	1895.0	1889.1	1682.9
30°	1426.6	1416.8	1427.9	1466.3	1491.7	1602.3	1789.6	1788.3	1969.1	1965.2	1697.2
32.5°	1468.2	1463.7	1470.8	1504.7	1547.6	1662.1	1850.1	1888.5	2044.6	2069.4	1746.7
35°	1476.0	1495.0	1511.9	1557.4	1618.5	1759.0	1964.0	1995.9	2131.8	2209.2	1841.0
37.5°	1525.5	1532.6	1572.3	1653.0	1708.9	1888.5	2036.1	2056.3	2211.2	2299.0	1940.5
40°	1578.2	1586.6	1646.5	1731.0	1807.8	1973.1	2103.8	2110.3	2236.6	2367.9	2005.6
42.5°	1649.7	1657.5	1716.7	1822.8	1925.6	2045.3	2163.6	2170.8	2234.5	2447.3	2109.1
45°	1723.9	1742.8	1812.4	1932.7	2025.1	2129.8	2177.3	2206.6	2252.8	2518.2	2192.9
47.5°	1828.0	1845.6	1902.8	2020.6	2128.6	2204.0	2240.4	2269.0	2296.4	2580.0	2246.9
50°	1938.6	1941.9	2011.4	2118.1	2197.5	2287.9	2358.2	2367.9	2353.6	2651.6	2338.7
52.5°	2019.9	2030.3	2084.3	2188.4	2306.8	2418.0	2514.3	2524.7	2496.8	2678.2	2369.9
55°	1885.3	1879.4	1967.2	2105.8	2380.3	2611.9	2751.8	2759.6	2600.8	2760.8	2472.0
57.5°	1457.2	1485.1	1560.0	1727.2	2114.9	2697.8	2935.2	2907.3	2725.8	2802.5	2537.0
60°	1059.1	1052.6	1102.6	1214.6	1593.8	2325.0	2775.1	2803.8	2623.6	2526.0	2092.1
62.5°	862.6	853.5	857.4	861.3	1028.5	1543.1	2054.4	2053.7	2020.6	1815.6	1411.0
65°	689.5	711.1	713.0	742.3	763.7	921.8	1190.4	1254.2	1092.2	895.7	649.8
67.5°	519.7	512.0	538.0	642.1	682.4	665.5	649.8	657.1	467.1	337.0	317.5
70°	306.4	303.2	334.4	447.6	562.0	528.9	489.9	490.5	320.7	235.5	262.1
72.5°	167.9	167.2	173.7	227.1	319.4	331.8	294.0	303.2	191.2	190.6	205.0
75°	93.7	91.8	89.7	100.2	115.1	121.6	124.2	125.6	131.4	147.0	152.9
77.5°	34.5	33.1	33.1	38.3	48.8	61.1	77.4	78.7	93.0	106.7	112.5
80°	11.7	13.0	17.6	24.1	32.5	43.6	52.7	54.0	65.7	74.8	76.8
82.5°	7.1	7.8	11.7	16.9	23.4	30.6	39.0	39.7	48.8	54.7	57.3
85°	3.3	3.9	6.5	10.4	15.0	20.2	20.9	20.9	20.2	20.9	19.5
87.5°	0.0	0.0	1.3	1.3	1.3	1.9	2.6	1.9	3.3	3.9	3.9
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°	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2
2.5°	1949.6	1942.5	1920.3	1900.8	1895.0	1869.0	1830.6	1835.1	1807.1	1820.2	1806.6
5°	1922.9	1898.9	1842.3	1818.2	1755.2	1726.5	1707.0	1658.2	1635.4	1630.9	1611.4
7.5°	1854.7	1839.7	1768.8	1703.8	1636.8	1579.5	1506.0	1455.9	1420.1	1410.4	1381.8
10°	1800.7	1767.5	1669.3	1570.4	1474.8	1375.2	1279.6	1204.8	1168.3	1126.1	1111.7
12.5°	1747.3	1697.2	1564.5	1437.7	1314.1	1188.5	1072.7	981.6	902.3	883.4	876.9
15°	1714.1	1627.0	1470.8	1318.0	1142.3	978.4	862.6	802.7	754.0	733.8	748.1
17.5°	1670.6	1569.1	1381.1	1177.5	984.2	833.3	736.4	699.3	681.8	683.7	677.8
20°	1615.9	1514.5	1263.4	1050.0	843.1	722.8	667.4	653.8	656.4	660.9	659.0
22.5°	1576.9	1448.1	1178.1	919.9	728.6	661.6	638.8	629.1	637.6	641.4	638.2
25°	1546.9	1391.5	1074.7	804.7	662.2	627.1	616.7	616.0	629.1	634.3	631.0
27.5°	1519.6	1338.8	971.9	716.9	618.0	600.5	597.2	605.0	613.4	618.6	623.2
30°	1503.4	1298.4	875.6	643.4	595.8	587.4	581.6	588.7	593.3	598.5	595.8
32.5°	1519.0	1269.8	782.6	601.7	577.7	569.2	577.0	572.5	580.3	584.8	577.7
35°	1567.8	1244.4	716.2	579.6	556.8	560.1	561.4	559.4	562.7	558.8	567.3
37.5°	1615.9	1235.3	655.1	560.8	547.1	547.1	545.8	541.9	548.4	547.1	551.0
40°	1677.0	1241.2	603.1	540.6	538.0	536.7	531.5	530.8	528.2	528.9	530.2
42.5°	1730.4	1254.2	573.1	527.6	529.5	532.1	522.3	514.6	517.8	511.3	511.3
45°	1787.0	1266.0	546.5	518.5	516.5	515.9	508.0	503.5	500.9	501.6	507.4
47.5°	1876.1	1282.9	526.3	506.1	507.4	497.6	495.7	489.9	492.5	496.4	497.0
50°	1939.3	1318.6	510.7	491.8	496.4	489.9	478.1	475.5	475.5	482.1	480.7
52.5°	1983.5	1368.7	495.7	476.2	478.1	472.9	469.0	463.1	459.3	468.4	472.9
55°	2118.8	1452.0	491.8	463.1	462.6	457.3	450.2	444.3	442.4	443.6	452.8
57.5°	2105.8	1426.0	479.5	440.4	439.1	431.9	424.8	422.9	422.2	423.5	426.1
60°	1709.6	1053.2	428.1	414.4	412.4	411.2	404.0	396.2	392.2	396.2	392.9
62.5°	1131.3	705.2	377.3	383.2	384.5	381.2	369.5	361.7	363.0	367.5	360.4
65°	555.6	414.4	342.2	357.8	359.1	350.0	338.9	329.8	325.3	329.2	325.9
67.5°	317.5	316.8	313.5	329.8	329.2	320.1	302.5	294.7	286.9	288.2	286.2
70°	269.3	274.5	281.1	290.8	290.1	279.7	258.9	253.1	242.0	240.7	237.4
72.5°	212.1	221.2	235.5	242.6	236.8	223.8	210.1	200.3	190.6	184.8	186.7
75°	157.4	170.5	178.2	182.8	173.7	166.5	155.5	143.7	132.0	126.8	124.9
77.5°	114.5	118.4	125.6	128.8	123.0	115.8	109.3	97.6	86.5	79.4	77.4
80°	80.0	82.6	87.8	87.8	87.8	84.6	76.1	64.4	57.3	50.7	49.5
82.5°	55.9	58.5	63.7	61.1	60.5	56.6	51.4	42.3	34.5	29.9	28.6
85°	19.5	21.4	26.0	31.2	33.1	32.5	29.3	23.4	18.2	15.0	13.6
87.5°	4.5	4.5	5.2	4.5	4.5	5.2	4.5	4.5	4.5	3.3	2.6
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)