

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: P526700

Luminaire Tested: **GALN-SA1C-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526700
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-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 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: 4782 lumens
Efficiency: N/A
Efficacy: 83.9 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

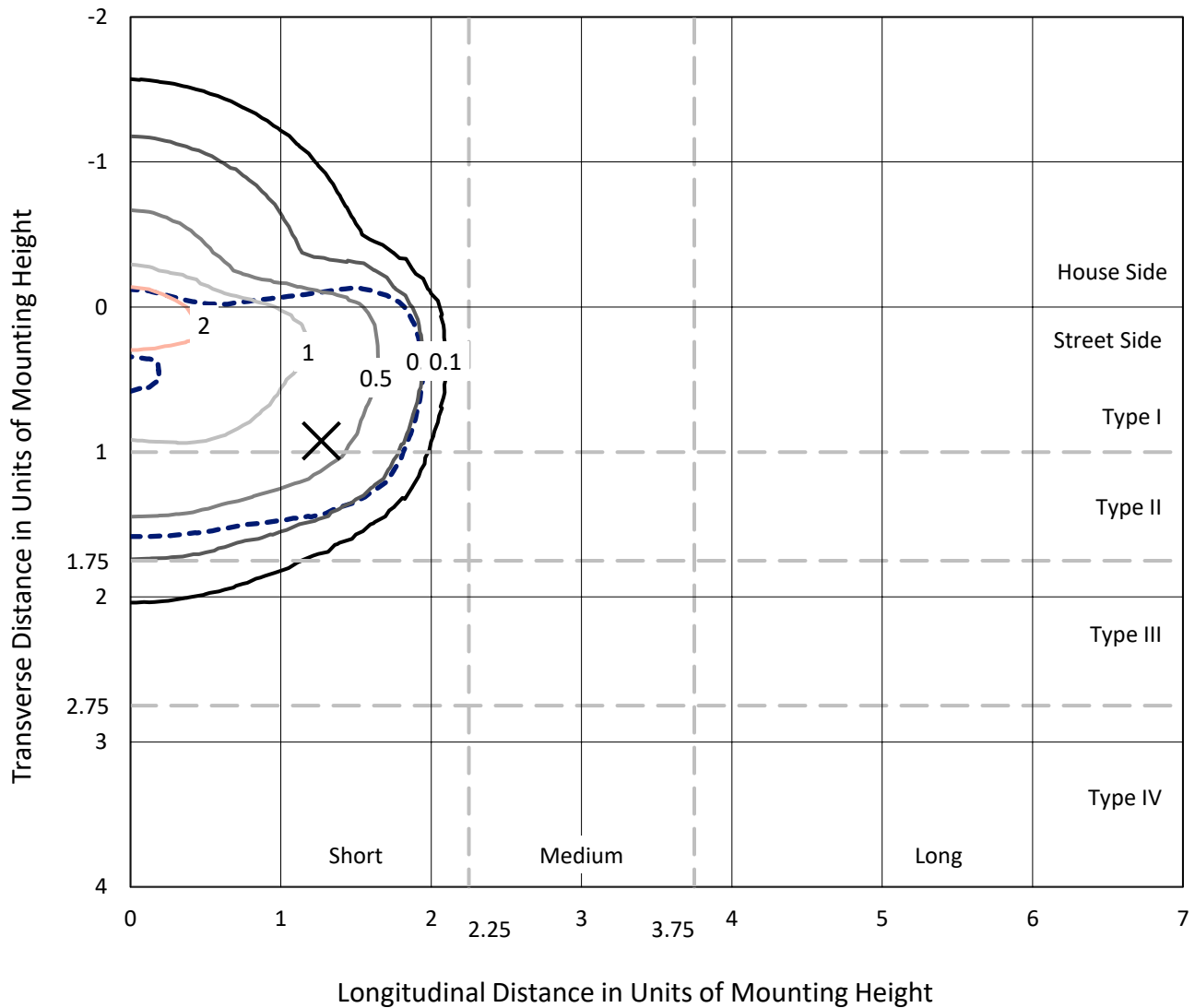


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Iso-Footcandle Lines of Horizontal Illumination

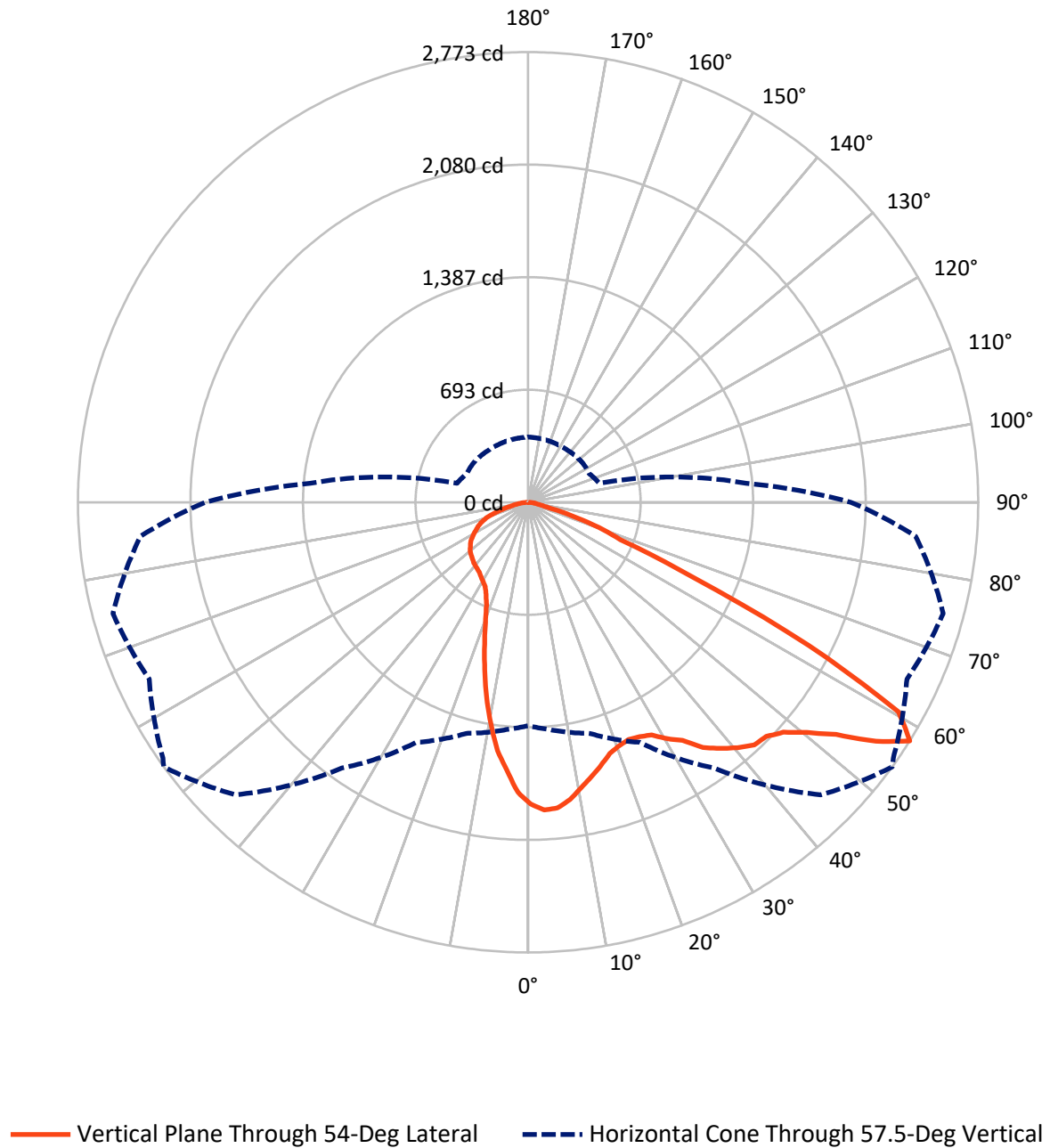
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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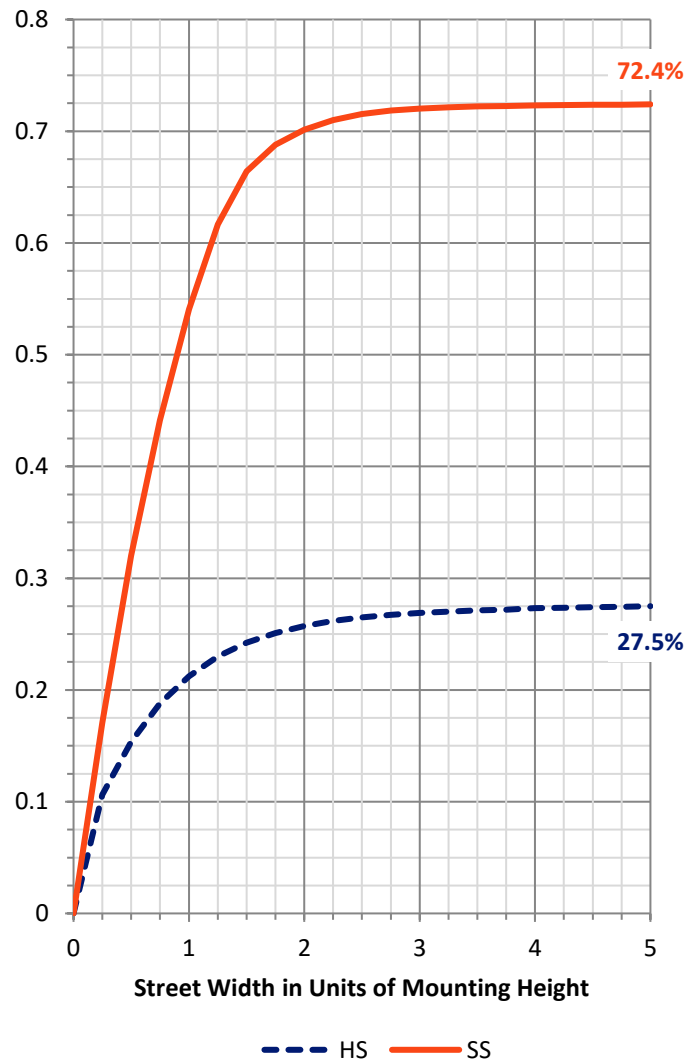
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1323.0	0.0	1323.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	3459.0	0.0	3459.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	4782.0	0.0	4782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	3.4
10°-20°	371.1	7.8
20°-30°	521.5	10.9
30°-40°	729.0	15.2
40°-50°	986.9	20.6
50°-60°	1202.1	25.1
60°-70°	626.1	13.1
70°-80°	160.4	3.4
80°-90°	24.5	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°	4782.0	100.0
0°-180°	4782.0	100.0

Coefficient of Utilization



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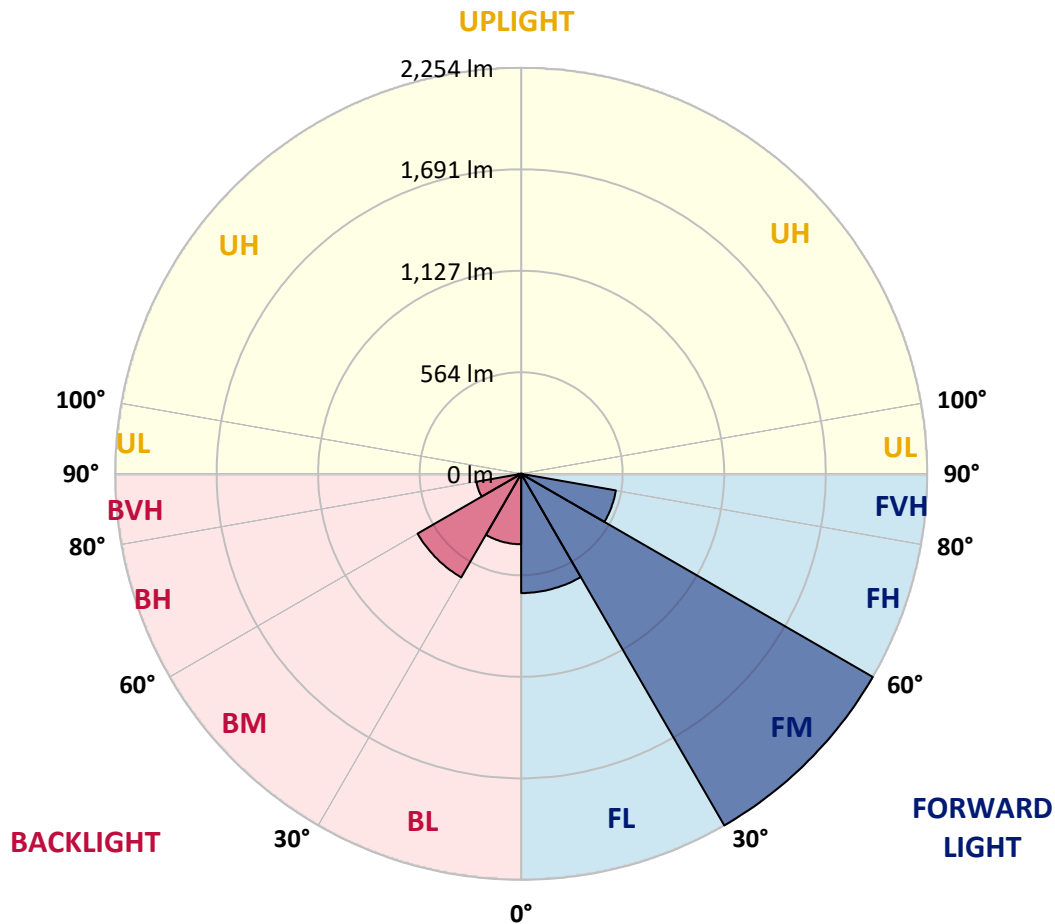
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	661.9	13.8			
FM	(30°-60°)	2254.1	47.1			
FH	(60°-80°)	533.8	11.2			G0/660
FVH	(80°-90°)	9.2	0.2			G0/10
BL	(0°-30°)	391.0	8.2	B1/500		
BM	(30°-60°)	664.0	13.9	B1/1000		
BH	(60°-80°)	252.7	5.3	B1/500		G1/500
BVH	(80°-90°)	15.2	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°	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7
2.5°	1911.6	1904.2	1905.4	1915.3	1903.0	1898.0	1898.0	1874.1	1875.9	1859.3	1855.0
5°	1867.3	1850.1	1861.8	1876.5	1879.0	1883.9	1891.9	1885.8	1868.5	1850.7	1821.8
7.5°	1751.8	1767.1	1771.4	1781.9	1804.0	1824.3	1849.5	1832.3	1831.7	1813.8	1796.6
10°	1650.3	1641.1	1664.5	1679.8	1716.7	1750.5	1789.3	1787.4	1796.6	1776.3	1746.8
12.5°	1549.5	1542.2	1553.2	1588.3	1639.9	1689.1	1735.2	1718.0	1767.1	1763.4	1700.1
15°	1442.6	1448.1	1464.1	1496.7	1564.3	1623.3	1681.7	1682.3	1725.9	1740.7	1655.9
17.5°	1367.6	1361.5	1381.7	1430.3	1490.5	1561.2	1627.6	1641.1	1708.1	1716.7	1642.4
20°	1311.7	1320.3	1346.7	1371.3	1440.7	1526.2	1601.2	1606.1	1704.4	1727.8	1620.8
22.5°	1298.1	1293.2	1301.8	1341.8	1398.9	1491.8	1587.0	1605.5	1703.8	1724.1	1580.3
25°	1284.0	1300.0	1299.4	1339.3	1381.1	1464.1	1598.7	1619.0	1736.4	1743.2	1585.8
27.5°	1316.0	1314.1	1331.3	1334.4	1386.0	1471.5	1623.3	1638.7	1790.5	1785.0	1590.1
30°	1347.9	1338.7	1349.2	1385.4	1409.4	1513.9	1690.9	1689.7	1860.6	1856.9	1603.6
32.5°	1387.3	1383.0	1389.7	1421.7	1462.3	1570.4	1748.1	1784.3	1931.9	1955.2	1650.3
35°	1394.6	1412.5	1428.5	1471.5	1529.3	1662.0	1855.6	1885.8	2014.2	2087.4	1739.5
37.5°	1441.4	1448.1	1485.6	1561.8	1614.7	1784.3	1923.9	1942.9	2089.2	2172.2	1833.5
40°	1491.1	1499.1	1555.7	1635.6	1708.1	1864.2	1987.8	1993.9	2113.2	2237.3	1895.0
42.5°	1558.8	1566.1	1622.1	1722.3	1819.4	1932.5	2044.3	2051.1	2111.3	2312.3	1992.7
45°	1628.8	1646.7	1712.4	1826.1	1913.4	2012.4	2057.2	2084.9	2128.5	2379.3	2072.0
47.5°	1727.2	1743.8	1797.9	1909.1	2011.1	2082.4	2116.9	2143.9	2169.7	2437.7	2123.0
50°	1831.7	1834.7	1900.5	2001.3	2076.3	2161.7	2228.1	2237.3	2223.8	2505.3	2209.7
52.5°	1908.5	1918.3	1969.3	2067.7	2179.6	2284.7	2375.6	2385.5	2359.0	2530.5	2239.2
55°	1781.3	1775.7	1858.7	1989.6	2249.0	2467.8	2600.0	2607.4	2457.4	2608.6	2335.7
57.5°	1376.8	1403.3	1473.9	1631.9	1998.2	2549.0	2773.3	2746.9	2575.4	2647.9	2397.1
60°	1000.7	994.5	1041.8	1147.6	1505.9	2196.8	2622.1	2649.2	2478.9	2386.7	1976.7
62.5°	815.0	806.4	810.1	813.8	971.8	1458.0	1941.1	1940.5	1909.1	1715.5	1333.2
65°	651.5	671.8	673.7	701.3	721.6	871.0	1124.8	1185.0	1032.0	846.4	614.0
67.5°	491.1	483.7	508.3	606.7	644.8	628.8	614.0	620.8	441.3	318.4	300.0
70°	289.5	286.4	315.9	422.9	531.1	499.7	462.8	463.4	303.0	222.5	247.7
72.5°	158.6	158.0	164.1	214.5	301.8	313.5	277.8	286.4	180.7	180.1	193.6
75°	88.5	86.7	84.8	94.7	108.8	114.9	117.4	118.6	124.2	138.9	144.4
77.5°	32.6	31.3	31.3	36.3	46.1	57.8	73.1	74.4	87.9	100.8	106.3
80°	11.1	12.3	16.6	22.7	30.7	41.2	49.8	51.0	62.1	70.7	72.5
82.5°	6.8	7.4	11.1	16.0	22.1	28.9	36.9	37.5	46.1	51.6	54.1
85°	3.1	3.7	6.1	9.8	14.1	19.1	19.7	19.7	19.1	19.7	18.4
87.5°	0.0	0.0	1.2	1.2	1.2	1.8	2.5	1.8	3.1	3.7	3.7
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°	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7
2.5°	1842.1	1835.4	1814.5	1796.0	1790.5	1765.9	1729.6	1733.9	1707.5	1719.8	1706.9
5°	1816.9	1794.2	1740.7	1718.0	1658.3	1631.3	1612.8	1566.7	1545.2	1540.9	1522.5
7.5°	1752.4	1738.2	1671.2	1609.8	1546.5	1492.4	1422.9	1375.6	1341.8	1332.6	1305.5
10°	1701.4	1670.0	1577.2	1483.8	1393.4	1299.4	1209.0	1138.3	1103.9	1064.0	1050.4
12.5°	1651.0	1603.6	1478.2	1358.4	1241.6	1123.0	1013.6	927.5	852.5	834.7	828.6
15°	1619.6	1537.2	1389.7	1245.3	1079.3	924.4	815.0	758.5	712.4	693.3	706.9
17.5°	1578.4	1482.5	1304.9	1112.5	930.0	787.4	695.8	660.8	644.2	646.0	640.5
20°	1526.8	1430.9	1193.7	992.0	796.6	682.9	630.6	617.7	620.2	624.5	622.6
22.5°	1489.9	1368.2	1113.1	869.1	688.4	625.1	603.6	594.4	602.4	606.0	603.0
25°	1461.6	1314.7	1015.4	760.3	625.7	592.5	582.7	582.1	594.4	599.3	596.2
27.5°	1435.8	1265.0	918.3	677.3	583.9	567.3	564.3	571.6	579.6	584.5	588.8
30°	1420.5	1226.8	827.3	607.9	563.0	555.0	549.5	556.3	560.6	565.5	563.0
32.5°	1435.2	1199.8	739.4	568.6	545.8	537.8	545.2	540.9	548.3	552.6	545.8
35°	1481.3	1175.8	676.7	547.7	526.1	529.2	530.4	528.6	531.7	528.0	536.0
37.5°	1526.8	1167.2	619.0	529.8	516.9	516.9	515.7	512.0	518.2	516.9	520.6
40°	1584.6	1172.8	569.8	510.8	508.3	507.1	502.2	501.6	499.1	499.7	500.9
42.5°	1635.0	1185.0	541.5	498.5	500.3	502.8	493.6	486.2	489.3	483.1	483.1
45°	1688.4	1196.1	516.3	489.9	488.0	487.4	480.0	475.7	473.3	473.9	479.4
47.5°	1772.7	1212.1	497.3	478.2	479.4	470.2	468.4	462.8	465.3	469.0	469.6
50°	1832.3	1245.9	482.5	464.7	469.0	462.8	451.8	449.3	449.3	455.5	454.2
52.5°	1874.1	1293.2	468.4	449.9	451.8	446.9	443.2	437.6	433.9	442.5	446.9
55°	2001.9	1371.9	464.7	437.6	437.0	432.1	425.3	419.8	418.0	419.2	427.8
57.5°	1989.6	1347.3	453.0	416.1	414.9	408.1	401.4	399.5	398.9	400.1	402.6
60°	1615.3	995.1	404.4	391.5	389.7	388.5	381.7	374.3	370.6	374.3	371.3
62.5°	1068.9	666.3	356.5	362.0	363.3	360.2	349.1	341.7	343.0	347.3	340.5
65°	524.9	391.5	323.3	338.1	339.3	330.7	320.2	311.6	307.3	311.0	307.9
67.5°	300.0	299.3	296.3	311.6	311.0	302.4	285.8	278.4	271.1	272.3	270.4
70°	254.5	259.4	265.5	274.7	274.1	264.3	244.6	239.1	228.7	227.4	224.3
72.5°	200.4	209.0	222.5	229.3	223.7	211.4	198.5	189.3	180.1	174.6	176.4
75°	148.7	161.0	168.4	172.7	164.1	157.4	146.9	135.8	124.8	119.9	118.0
77.5°	108.2	111.9	118.6	121.7	116.2	109.4	103.3	92.2	81.7	75.0	73.1
80°	75.6	78.1	83.0	83.0	83.0	79.9	71.9	60.9	54.1	47.9	46.7
82.5°	52.9	55.3	60.2	57.8	57.2	53.5	48.6	40.0	32.6	28.3	27.0
85°	18.4	20.3	24.6	29.5	31.3	30.7	27.7	22.1	17.2	14.1	12.9
87.5°	4.3	4.3	4.9	4.3	4.3	4.9	4.3	4.3	4.3	3.1	2.5
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)