

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: P526310

Luminaire Tested: **GALN-SA1B-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526310  
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-SA1B-730-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA 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: 4436 lumens  
Efficiency: N/A  
Efficacy: 100.8 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

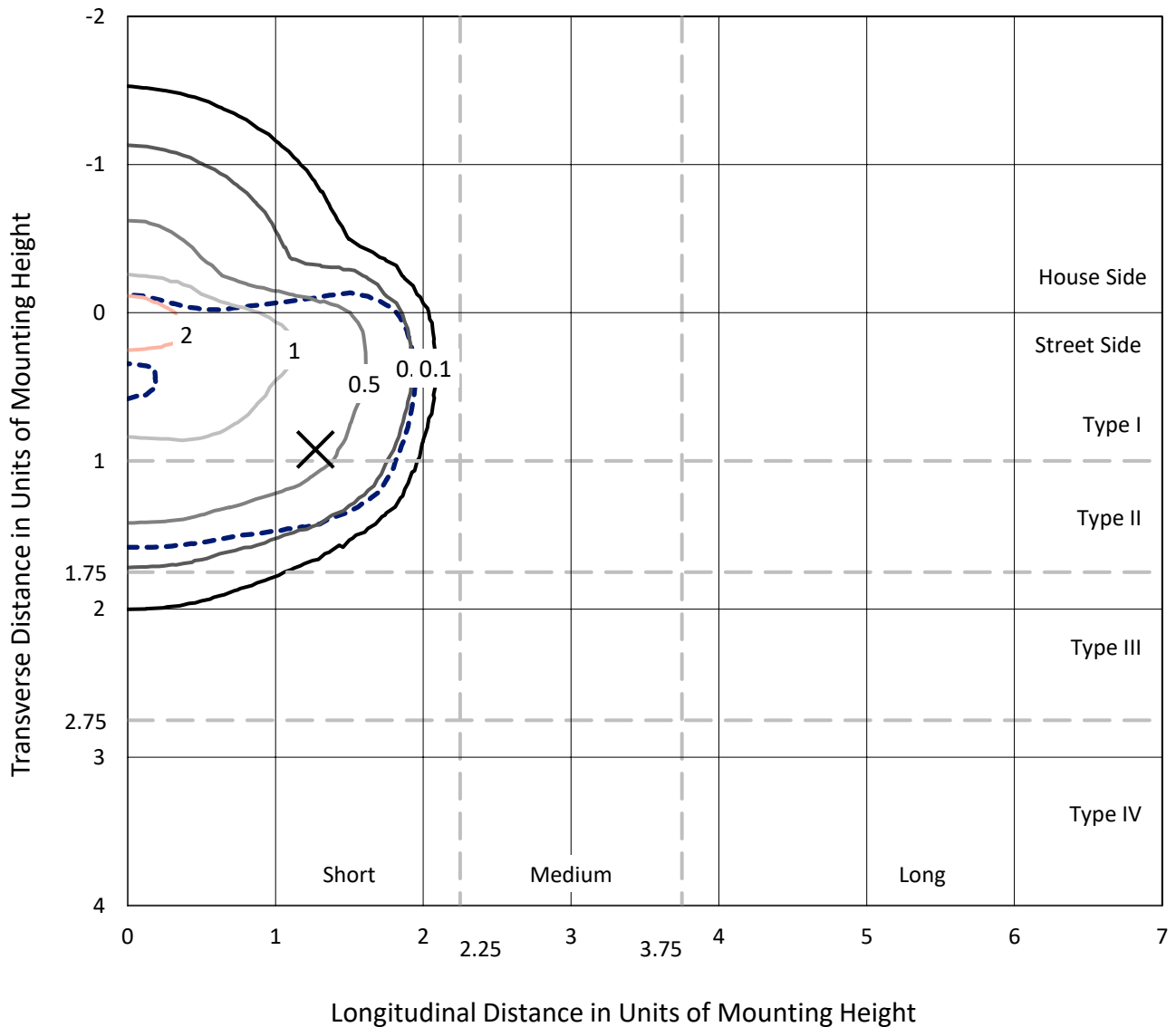
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

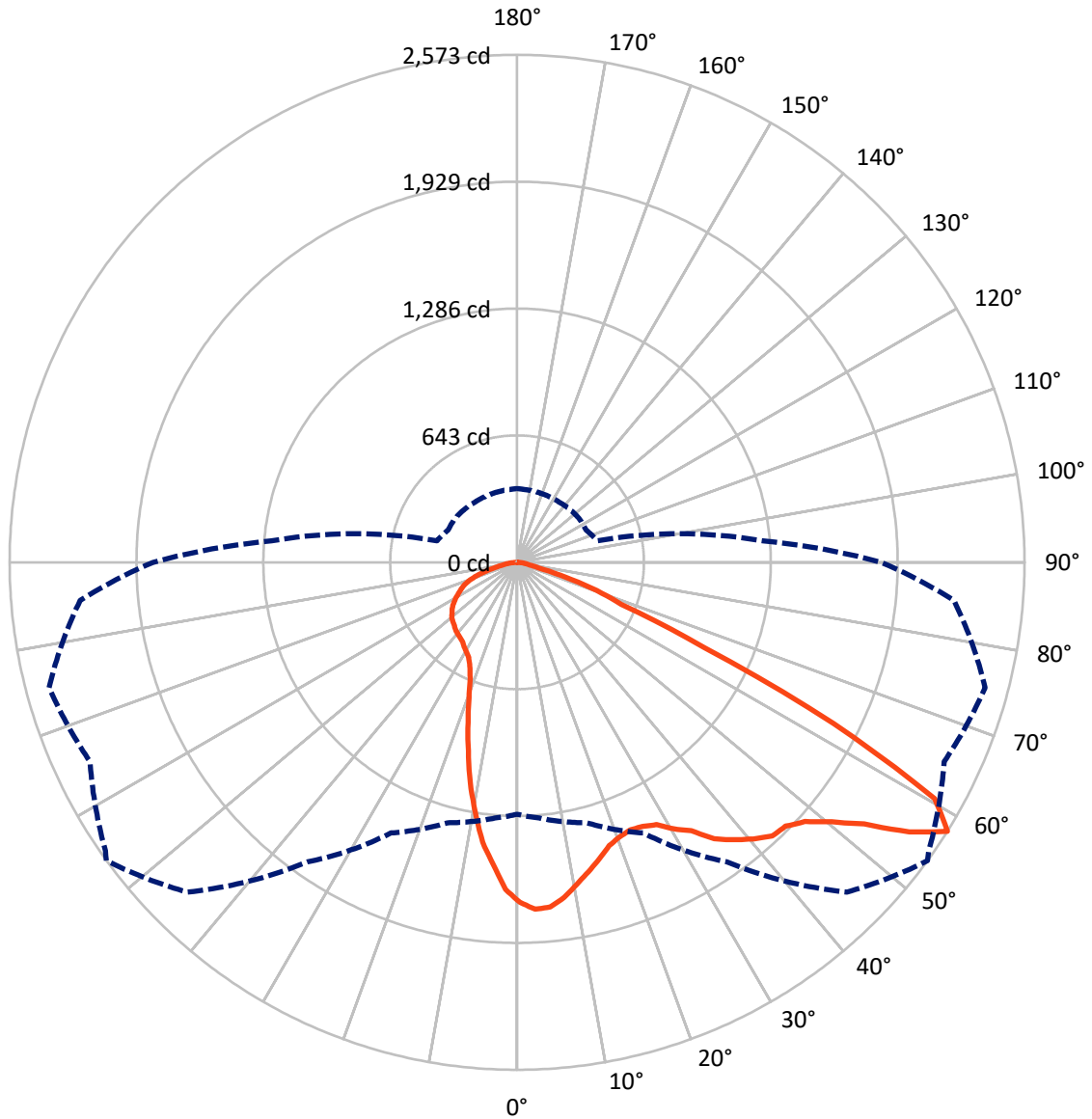
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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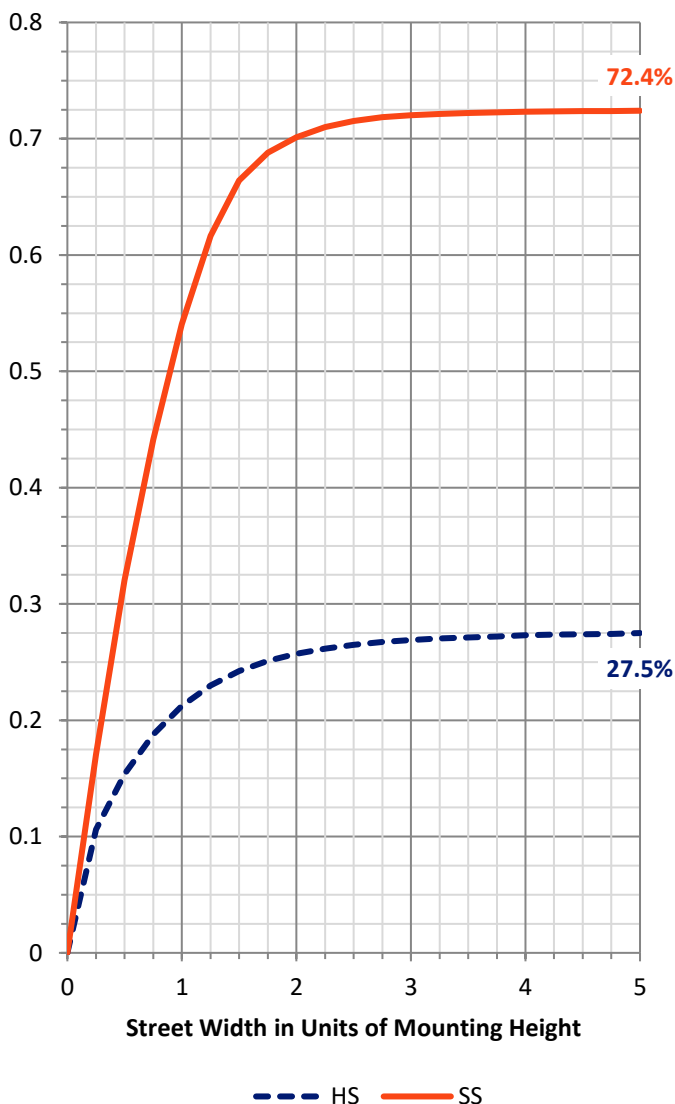
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1227.2	0.0	1227.2
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	3208.8	0.0	3208.8
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	4436.0	0.0	4436.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.7	3.4
10°-20°	344.3	7.8
20°-30°	483.7	10.9
30°-40°	676.3	15.2
40°-50°	915.5	20.6
50°-60°	1115.2	25.1
60°-70°	580.8	13.1
70°-80°	148.8	3.4
80°-90°	22.7	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°	4436.0	100.0
0°-180°	4436.0	100.0

**Coefficient of Utilization**



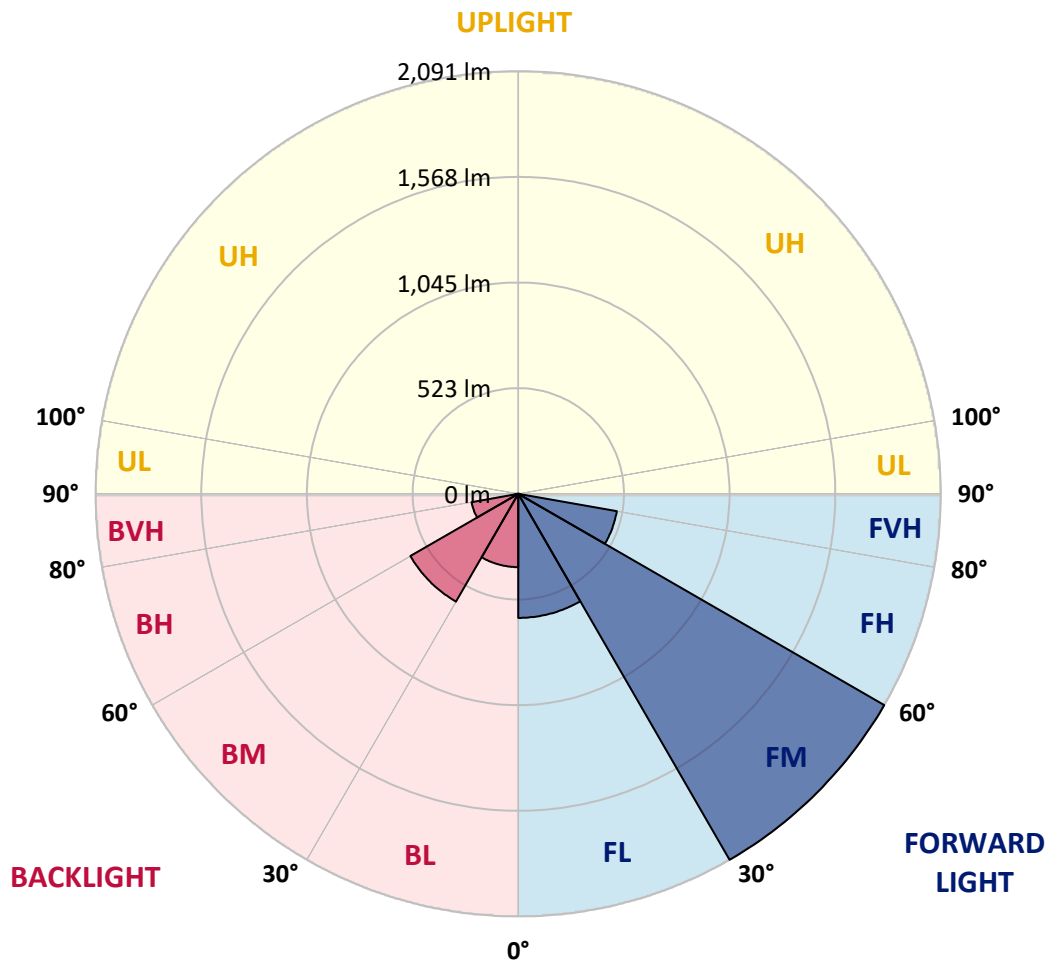
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.0	13.8			
FM (30°-60°)	2091.0	47.1			
FH (60°-80°)	495.2	11.2			G0/660
FVH (80°-90°)	8.6	0.2			G0/10
BL (0°-30°)	362.7	8.2	B1/500		
BM (30°-60°)	615.9	13.9	B1/1000		
BH (60°-80°)	234.5	5.3	B1/500		G1/500
BVH (80°-90°)	14.1	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°	1724.2	1724.2	1724.2	1724.2	1724.2	1724.2	1724.2	1724.2	1724.2	1724.2	1724.2
2.5°	1773.3	1766.4	1767.6	1776.7	1765.3	1760.7	1760.7	1738.5	1740.2	1724.8	1720.8
5°	1732.2	1716.2	1727.1	1740.8	1743.0	1747.6	1755.0	1749.3	1733.3	1716.8	1690.0
7.5°	1625.0	1639.3	1643.3	1652.9	1673.5	1692.3	1715.7	1699.7	1699.1	1682.6	1666.6
10°	1530.9	1522.4	1544.0	1558.3	1592.5	1623.9	1659.8	1658.1	1666.6	1647.8	1620.4
12.5°	1437.4	1430.6	1440.8	1473.3	1521.2	1566.9	1609.6	1593.7	1639.3	1635.8	1577.1
15°	1338.2	1343.3	1358.2	1388.4	1451.1	1505.8	1560.0	1560.6	1601.1	1614.7	1536.1
17.5°	1268.6	1262.9	1281.8	1326.8	1382.7	1448.3	1509.8	1522.4	1584.5	1592.5	1523.5
20°	1216.8	1224.7	1249.3	1272.1	1336.5	1415.8	1485.3	1489.9	1581.1	1602.8	1503.6
22.5°	1204.2	1199.7	1207.6	1244.7	1297.7	1383.8	1472.2	1489.3	1580.5	1599.4	1465.9
25°	1191.1	1205.9	1205.4	1242.4	1281.2	1358.2	1483.0	1501.9	1610.8	1617.0	1471.1
27.5°	1220.8	1219.0	1235.0	1237.9	1285.8	1365.0	1505.8	1520.1	1660.9	1655.8	1475.1
30°	1250.4	1241.9	1251.5	1285.2	1307.4	1404.4	1568.6	1567.4	1725.9	1722.5	1487.6
32.5°	1286.9	1282.9	1289.2	1318.8	1356.5	1456.8	1621.6	1655.2	1792.1	1813.7	1530.9
35°	1293.7	1310.3	1325.1	1365.0	1418.6	1541.8	1721.4	1749.3	1868.5	1936.3	1613.6
37.5°	1337.1	1343.3	1378.1	1448.8	1497.9	1655.2	1784.7	1802.3	1938.0	2015.0	1700.8
40°	1383.3	1390.7	1443.1	1517.2	1584.5	1729.4	1844.0	1849.7	1960.3	2075.5	1757.9
42.5°	1446.0	1452.8	1504.7	1597.6	1687.7	1792.6	1896.4	1902.7	1958.6	2145.0	1848.5
45°	1511.0	1527.5	1588.5	1694.0	1775.0	1866.8	1908.4	1934.0	1974.5	2207.2	1922.1
47.5°	1602.2	1617.6	1667.8	1771.0	1865.6	1931.8	1963.7	1988.8	2012.7	2261.3	1969.4
50°	1699.1	1702.0	1763.0	1856.5	1926.1	2005.3	2066.9	2075.5	2062.9	2324.1	2049.8
52.5°	1770.4	1779.5	1826.9	1918.1	2021.9	2119.4	2203.7	2212.9	2188.3	2347.4	2077.2
55°	1652.4	1647.2	1724.2	1845.7	2086.3	2289.3	2411.9	2418.7	2279.6	2419.8	2166.7
57.5°	1277.2	1301.7	1367.3	1513.8	1853.7	2364.5	2572.6	2548.1	2389.1	2456.3	2223.7
60°	928.3	922.6	966.5	1064.5	1396.9	2037.8	2432.4	2457.5	2299.5	2214.0	1833.7
62.5°	756.1	748.1	751.5	754.9	901.5	1352.5	1800.6	1800.1	1771.0	1591.4	1236.7
65°	604.4	623.2	624.9	650.6	669.4	807.9	1043.4	1099.3	957.3	785.1	569.6
67.5°	455.6	448.7	471.5	562.8	598.1	583.3	569.6	575.9	409.4	295.4	278.2
70°	268.6	265.7	293.1	392.3	492.6	463.6	429.3	429.9	281.1	206.4	229.8
72.5°	147.1	146.5	152.2	199.0	280.0	290.8	257.7	265.7	167.6	167.1	179.6
75°	82.1	80.4	78.7	87.8	100.9	106.6	108.9	110.0	115.2	128.9	134.0
77.5°	30.2	29.1	29.1	33.6	42.8	53.6	67.9	69.0	81.5	93.5	98.6
80°	10.3	11.4	15.4	21.1	28.5	38.2	46.2	47.3	57.6	65.6	67.3
82.5°	6.3	6.8	10.3	14.8	20.5	26.8	34.2	34.8	42.8	47.9	50.2
85°	2.9	3.4	5.7	9.1	13.1	17.7	18.2	18.2	17.7	18.2	17.1
87.5°	0.0	0.0	1.1	1.1	1.1	1.7	2.3	1.7	2.9	3.4	3.4
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°	1724.2	1724.2	1724.2	1724.2	1724.2	1724.2	1724.2	1724.2	1724.2	1724.2	1724.2
2.5°	1708.8	1702.6	1683.2	1666.1	1660.9	1638.1	1604.5	1608.5	1584.0	1595.4	1583.4
5°	1685.5	1664.4	1614.7	1593.7	1538.3	1513.3	1496.2	1453.4	1433.4	1429.4	1412.3
7.5°	1625.6	1612.5	1550.3	1493.3	1434.6	1384.4	1320.0	1276.1	1244.7	1236.1	1211.1
10°	1578.3	1549.2	1463.1	1376.4	1292.6	1205.4	1121.5	1056.0	1024.0	987.0	974.4
12.5°	1531.5	1487.6	1371.3	1260.1	1151.8	1041.7	940.2	860.4	790.8	774.3	768.6
15°	1502.4	1426.0	1289.2	1155.2	1001.2	857.5	756.1	703.6	660.8	643.2	655.7
17.5°	1464.2	1375.3	1210.5	1032.0	862.7	730.4	645.4	612.9	597.5	599.3	594.1
20°	1416.3	1327.4	1107.3	920.3	739.0	633.5	585.0	573.0	575.3	579.3	577.6
22.5°	1382.1	1269.2	1032.6	806.2	638.6	579.9	559.9	551.4	558.8	562.2	559.3
25°	1355.9	1219.6	941.9	705.3	580.4	549.7	540.5	540.0	551.4	555.9	553.1
27.5°	1331.9	1173.4	851.8	628.3	541.7	526.3	523.4	530.3	537.7	542.2	546.2
30°	1317.7	1138.1	767.5	563.9	522.3	514.9	509.7	516.0	520.0	524.6	522.3
32.5°	1331.4	1113.0	685.9	527.4	506.3	498.9	505.7	501.8	508.6	512.6	506.3
35°	1374.1	1090.8	627.8	508.0	488.1	490.9	492.1	490.4	493.2	489.8	497.2
37.5°	1416.3	1082.8	574.2	491.5	479.5	479.5	478.4	475.0	480.7	479.5	482.9
40°	1469.9	1087.9	528.6	473.8	471.5	470.4	465.8	465.3	463.0	463.6	464.7
42.5°	1516.7	1099.3	502.3	462.4	464.1	466.4	457.9	451.0	453.9	448.2	448.2
45°	1566.3	1109.6	479.0	454.4	452.7	452.2	445.3	441.3	439.0	439.6	444.7
47.5°	1644.4	1124.4	461.3	443.6	444.7	436.2	434.5	429.3	431.6	435.0	435.6
50°	1699.7	1155.8	447.6	431.1	435.0	429.3	419.1	416.8	416.8	422.5	421.4
52.5°	1738.5	1199.7	434.5	417.4	419.1	414.5	411.1	406.0	402.5	410.5	414.5
55°	1857.1	1272.6	431.1	406.0	405.4	400.8	394.6	389.4	387.7	388.9	396.8
57.5°	1845.7	1249.8	420.2	386.0	384.9	378.6	372.3	370.6	370.0	371.2	373.5
60°	1498.4	923.1	375.2	363.2	361.5	360.4	354.1	347.2	343.8	347.2	344.4
62.5°	991.5	618.1	330.7	335.8	337.0	334.1	323.9	317.0	318.2	322.2	315.9
65°	486.9	363.2	299.9	313.6	314.7	306.8	297.1	289.1	285.1	288.5	285.7
67.5°	278.2	277.7	274.8	289.1	288.5	280.5	265.1	258.3	251.4	252.6	250.9
70°	236.1	240.6	246.3	254.9	254.3	245.2	226.9	221.8	212.1	211.0	208.1
72.5°	185.9	193.9	206.4	212.7	207.5	196.1	184.2	175.6	167.1	161.9	163.6
75°	138.0	149.4	156.2	160.2	152.2	146.0	136.3	126.0	115.7	111.2	109.5
77.5°	100.4	103.8	110.0	112.9	107.8	101.5	95.8	85.5	75.8	69.6	67.9
80°	70.1	72.4	77.0	77.0	77.0	74.1	66.7	56.4	50.2	44.5	43.3
82.5°	49.0	51.3	55.9	53.6	53.0	49.6	45.0	37.1	30.2	26.2	25.1
85°	17.1	18.8	22.8	27.4	29.1	28.5	25.7	20.5	16.0	13.1	12.0
87.5°	4.0	4.0	4.6	4.0	4.0	4.6	4.0	4.0	4.0	2.9	2.3
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)