

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: P647215

Luminaire Tested: **GALN-SA1D-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647215
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-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 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: 5194.4 lumens
Efficiency: N/A
Efficacy: 79.9 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

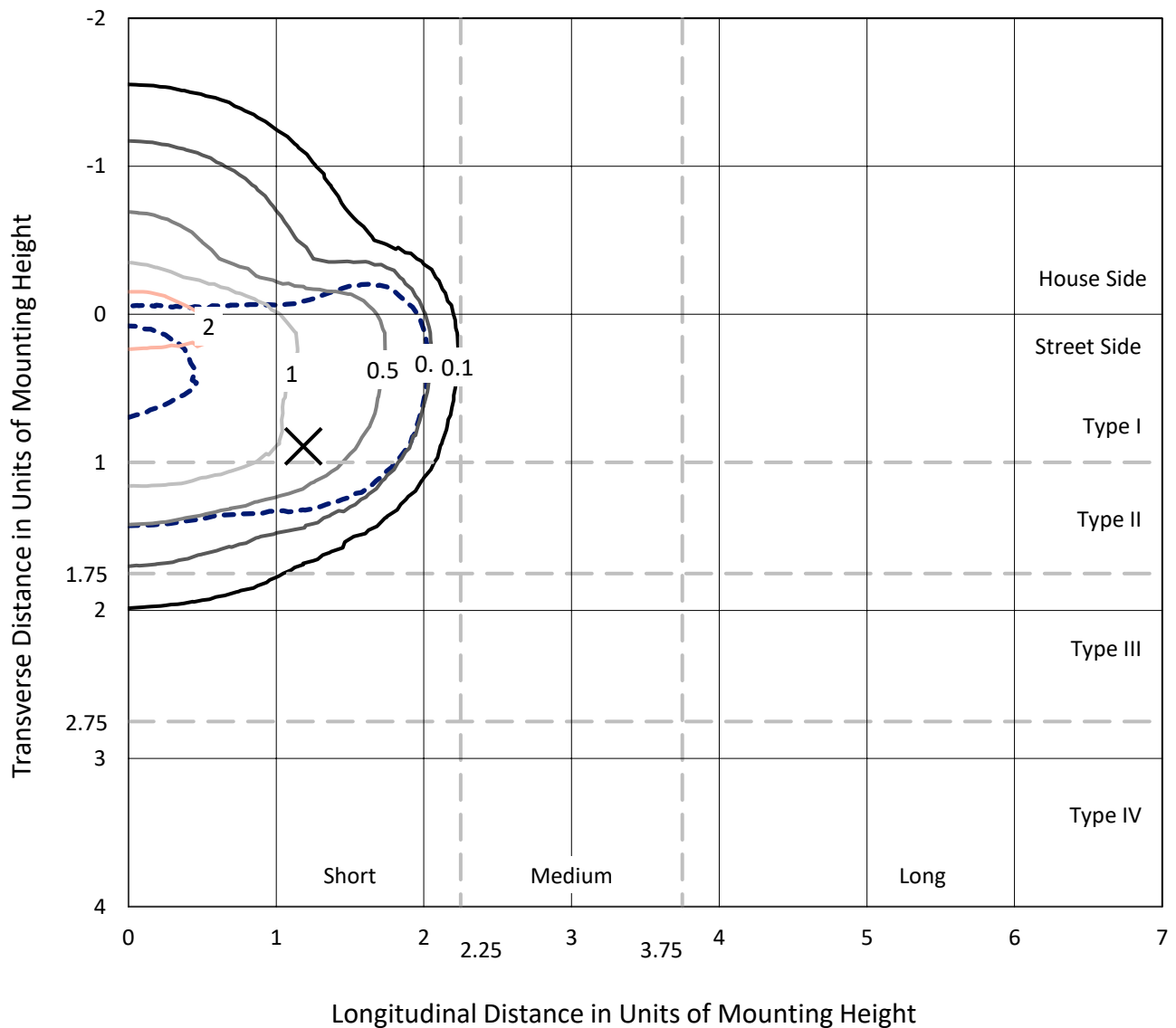
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

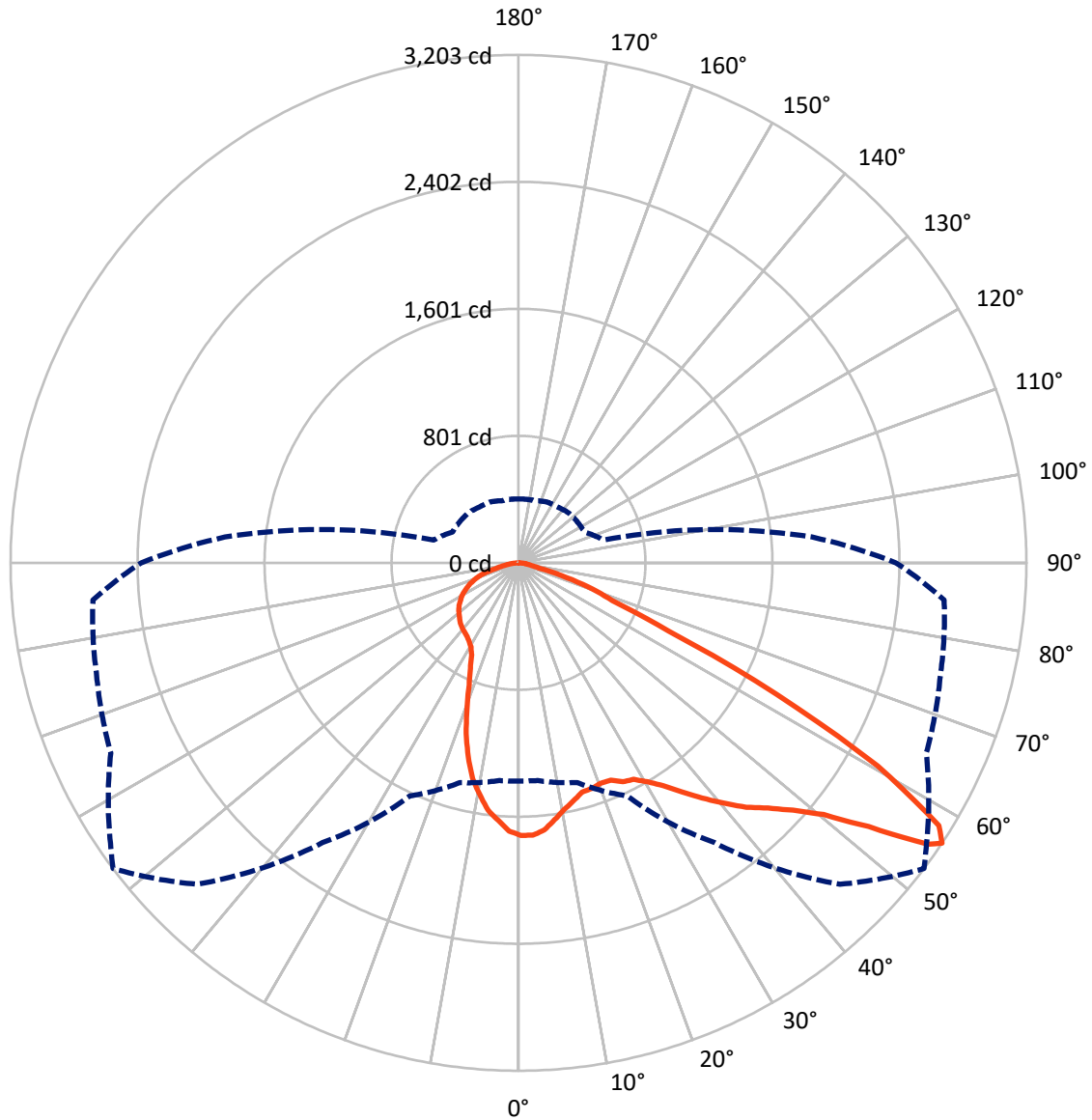
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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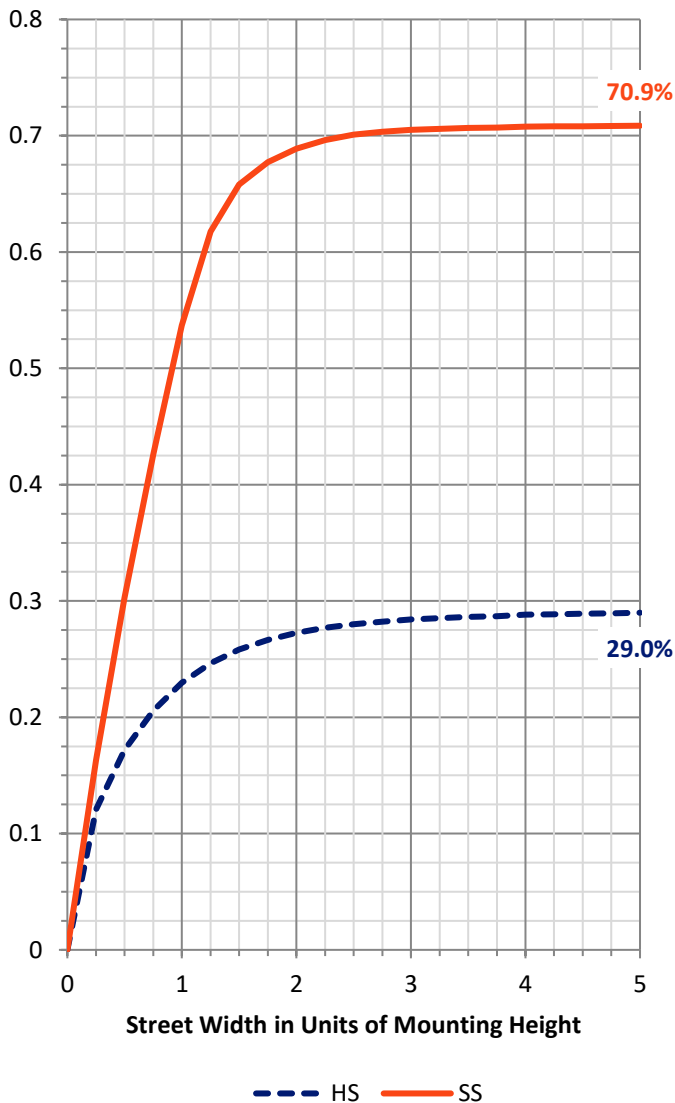
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1515.8	0.0	1515.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	3678.6	0.0	3678.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	5194.4	0.0	5194.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	2.9
10°-20°	380.0	7.3
20°-30°	560.3	10.8
30°-40°	800.6	15.4
40°-50°	1101.9	21.2
50°-60°	1302.1	25.1
60°-70°	693.9	13.4
70°-80°	176.0	3.4
80°-90°	27.4	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°	5194.4	100.0
0°-180°	5194.4	100.0

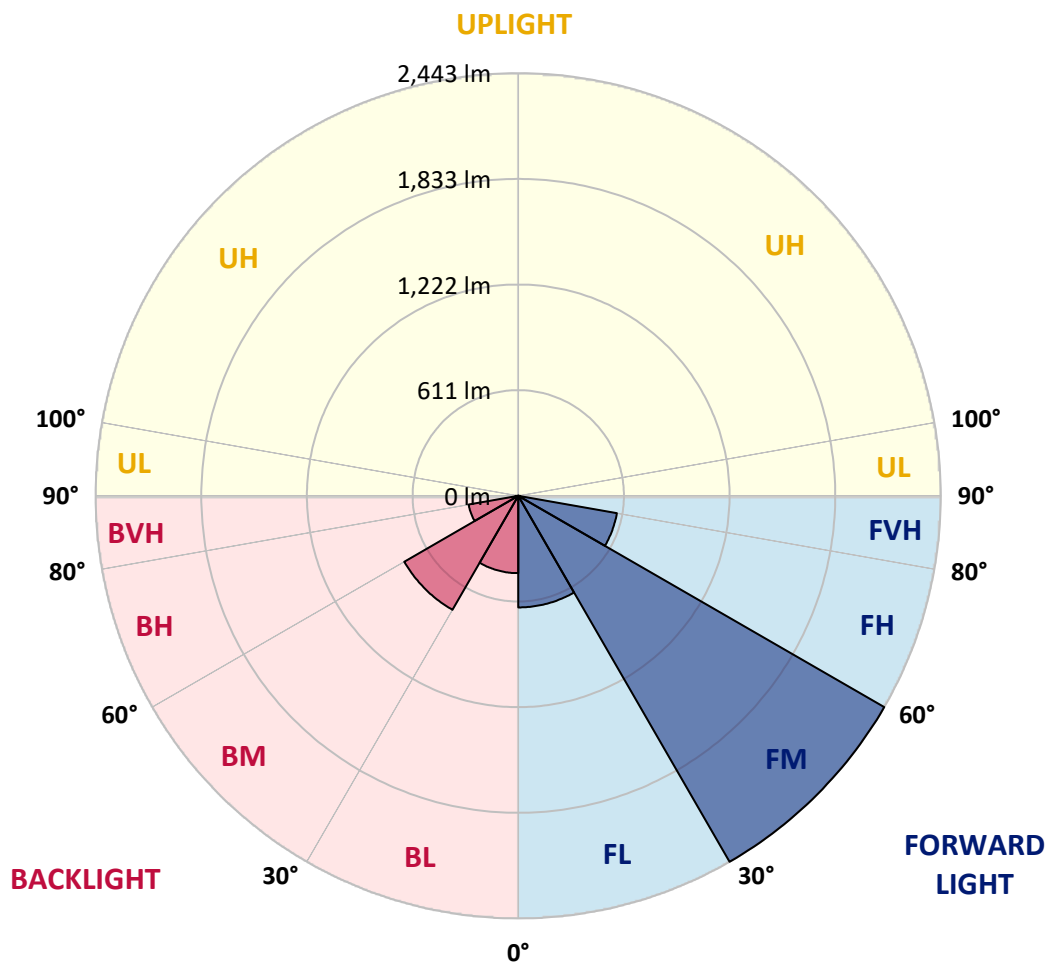


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.3	12.4			
FM (30°-60°)	2443.4	47.0			
FH (60°-80°)	578.9	11.1			G0/660
FVH (80°-90°)	11.0	0.2			G1/100
BL (0°-30°)	447.1	8.6	B1/500		
BM (30°-60°)	761.2	14.7	B1/1000		
BH (60°-80°)	291.1	5.6	B1/500		G1/500
BVH (80°-90°)	16.4	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°	1718.5	1718.5	1718.5	1718.5	1718.5	1718.5	1718.5	1718.5	1718.5	1718.5	1718.5
2.5°	1697.2	1682.5	1691.2	1687.8	1715.2	1723.1	1719.2	1722.5	1737.9	1730.5	1715.2
5°	1585.9	1606.6	1610.6	1620.6	1636.5	1667.9	1692.5	1699.2	1706.5	1740.5	1737.2
7.5°	1484.6	1498.7	1491.3	1520.6	1555.3	1605.9	1635.9	1641.2	1708.5	1727.2	1741.2
10°	1420.7	1406.7	1440.0	1448.0	1487.3	1545.3	1581.3	1603.3	1664.6	1738.5	1747.2
12.5°	1361.3	1356.7	1376.7	1399.3	1443.3	1503.3	1539.9	1548.6	1643.2	1721.2	1761.8
15°	1317.4	1312.1	1332.0	1348.7	1400.0	1453.3	1500.0	1524.6	1619.9	1711.2	1749.1
17.5°	1282.7	1282.1	1293.4	1323.3	1376.0	1420.7	1495.9	1497.3	1607.9	1726.5	1759.9
20°	1280.8	1280.0	1282.1	1315.4	1363.4	1418.0	1483.3	1495.3	1607.9	1715.9	1760.5
22.5°	1297.4	1286.7	1298.7	1320.1	1354.7	1422.6	1487.9	1514.6	1646.6	1768.5	1790.5
25°	1324.1	1326.7	1333.4	1340.7	1360.7	1433.4	1529.3	1551.3	1691.8	1813.8	1831.8
27.5°	1372.7	1371.3	1374.0	1378.0	1395.3	1443.3	1546.0	1602.6	1786.5	1894.5	1876.5
30°	1444.0	1439.3	1450.0	1464.0	1448.0	1475.3	1601.2	1643.9	1874.4	1975.7	1926.4
32.5°	1508.6	1525.9	1546.0	1551.9	1532.6	1538.0	1674.5	1717.8	1947.7	2075.7	1987.7
35°	1589.3	1603.3	1629.9	1648.5	1645.2	1629.3	1774.5	1831.8	2053.7	2148.9	2052.4
37.5°	1667.9	1684.5	1728.6	1783.8	1753.1	1745.9	1881.1	1928.5	2086.4	2188.3	2099.7
40°	1794.5	1793.9	1869.8	1898.5	1925.8	1913.1	1991.7	2007.7	2103.7	2179.6	2101.0
42.5°	1943.1	1933.8	2011.1	2055.7	2091.0	2092.3	2107.0	2101.7	2111.7	2135.6	2087.0
45°	2084.3	2104.3	2182.3	2262.2	2297.6	2301.6	2204.3	2194.3	2125.7	2123.0	2060.4
47.5°	2256.9	2261.6	2325.6	2430.8	2512.8	2484.9	2330.2	2308.2	2187.0	2207.6	2105.0
50°	2266.9	2301.6	2358.9	2482.8	2734.7	2727.3	2493.5	2452.2	2285.6	2327.5	2229.6
52.5°	2057.7	2049.7	2117.7	2320.3	2718.0	2968.6	2764.0	2665.4	2497.5	2465.5	2431.5
55°	1568.0	1586.6	1646.6	1851.1	2360.2	2972.0	3132.5	3051.9	2724.1	2669.4	2630.1
56°	1375.3	1378.0	1434.7	1621.2	2153.6	2866.0	3202.5	3137.2	2836.7	2753.3	2693.4
57.5°	1140.1	1124.8	1154.1	1256.1	1817.8	2642.1	3125.8	3189.8	2968.6	2844.0	2760.7
60°	897.6	894.3	882.3	900.9	1148.8	1990.4	2602.1	2746.1	2955.3	2758.7	2644.1
62.5°	733.0	716.3	740.3	766.9	798.3	1234.7	1828.5	1913.1	2346.3	2202.3	1986.4
65°	568.4	560.4	590.4	677.0	695.7	784.3	1041.5	1106.8	1385.4	1360.7	1198.1
67.5°	391.2	392.5	418.4	550.4	645.0	637.0	637.7	671.7	723.0	537.1	467.8
70°	247.9	247.2	261.2	354.5	519.1	524.5	497.8	487.7	462.4	279.8	296.5
72.5°	159.3	154.6	161.9	195.9	268.6	310.5	319.9	325.9	267.9	219.9	238.6
75°	90.0	85.3	82.6	91.3	105.9	122.6	134.6	138.6	155.3	166.6	176.6
77.5°	27.3	24.7	30.0	40.0	52.6	70.6	86.0	88.6	104.6	117.9	127.9
80°	12.0	13.3	18.6	26.6	37.3	50.0	60.6	64.6	75.3	85.3	87.9
82.5°	7.4	8.0	12.7	18.0	26.0	35.3	43.3	44.6	55.3	63.3	65.3
85°	2.7	3.4	6.7	10.6	16.7	22.6	22.6	24.7	22.6	22.6	24.7
87.5°	0.0	0.0	0.7	1.3	1.3	2.0	2.7	2.7	3.4	4.0	4.7
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°	1718.5	1718.5	1718.5	1718.5	1718.5	1718.5	1718.5	1718.5	1718.5	1718.5	1718.5
2.5°	1723.1	1719.9	1714.5	1695.2	1693.2	1687.2	1653.9	1648.5	1653.9	1637.9	1639.2
5°	1719.9	1729.9	1689.9	1670.5	1634.6	1608.6	1578.6	1563.3	1535.9	1518.6	1538.0
7.5°	1734.5	1730.5	1680.6	1638.6	1584.6	1518.6	1466.0	1436.0	1388.0	1374.7	1384.7
10°	1729.2	1707.9	1649.2	1593.9	1491.9	1434.0	1348.7	1266.0	1220.8	1197.4	1194.1
12.5°	1721.8	1715.9	1617.9	1522.6	1415.4	1293.4	1173.5	1095.5	1021.5	989.6	994.2
15°	1730.5	1679.8	1559.3	1438.7	1296.0	1136.1	1006.9	906.2	855.0	834.3	834.3
17.5°	1726.5	1662.5	1531.3	1344.7	1164.1	974.8	833.0	772.3	751.0	751.0	757.0
20°	1728.6	1673.9	1474.6	1250.8	1008.2	821.0	717.7	695.7	705.0	708.3	711.7
22.5°	1739.8	1636.5	1419.3	1147.5	863.6	702.4	651.7	652.4	669.0	687.0	683.6
25°	1753.8	1621.9	1352.0	1044.8	753.0	644.3	628.4	626.4	639.0	648.3	649.7
27.5°	1741.9	1596.6	1283.4	916.9	662.3	605.7	602.4	603.7	607.7	626.4	620.4
30°	1781.2	1603.9	1197.4	809.6	612.4	593.0	589.1	587.1	593.0	598.4	593.7
32.5°	1829.8	1577.9	1133.5	706.3	587.7	583.7	575.7	573.1	576.4	571.0	573.7
35°	1851.1	1573.3	1050.2	632.4	568.4	565.1	560.4	559.8	560.4	555.8	551.7
37.5°	1863.1	1595.2	954.9	598.4	556.4	559.8	549.0	547.7	535.7	538.4	540.4
40°	1883.7	1561.2	877.6	565.7	549.0	542.4	533.1	531.1	523.1	518.4	523.1
42.5°	1853.8	1551.3	801.6	551.7	538.4	531.1	524.5	513.1	510.4	506.4	503.8
45°	1829.8	1494.0	733.7	534.4	525.8	521.8	509.1	497.1	487.1	491.1	485.1
47.5°	1847.8	1474.0	666.3	519.8	508.4	503.8	491.1	481.8	471.8	467.1	465.8
50°	1919.8	1511.3	609.7	509.1	493.8	491.1	474.4	463.8	454.5	451.1	452.4
52.5°	2091.7	1613.2	571.0	487.1	479.7	467.8	458.4	445.1	439.1	428.5	435.1
55°	2309.5	1779.1	561.1	466.4	462.4	451.8	439.1	429.2	417.8	409.1	407.2
56°	2379.5	1858.5	553.0	458.4	451.8	445.8	429.2	423.1	405.1	403.2	401.8
57.5°	2436.1	1928.5	554.4	443.1	436.4	431.1	421.1	406.5	394.5	387.1	390.5
60°	2308.2	1805.1	529.1	419.8	418.4	408.5	394.5	387.8	373.2	364.5	362.5
62.5°	1715.9	1225.4	429.2	389.8	389.2	378.5	362.5	355.2	352.5	340.5	340.5
65°	988.2	768.3	371.1	365.2	359.9	349.1	333.2	327.2	320.5	316.5	313.2
67.5°	421.8	398.5	337.2	336.5	330.5	317.2	301.2	291.8	283.2	275.2	279.2
70°	305.8	310.5	304.5	301.2	293.9	277.2	263.2	251.9	238.6	233.3	237.2
72.5°	242.6	252.5	261.2	261.9	253.2	233.9	218.5	203.3	188.5	181.3	184.6
75°	183.9	190.6	199.3	201.2	188.5	175.2	160.6	144.6	133.3	124.6	125.9
77.5°	132.6	131.3	139.3	138.0	131.9	122.6	109.3	94.6	82.0	74.0	74.6
80°	90.6	92.6	97.2	96.6	89.3	83.3	73.3	61.3	52.0	45.3	44.0
82.5°	63.3	66.6	70.6	67.3	61.3	55.3	48.0	39.3	31.9	26.6	25.3
85°	22.6	26.0	30.0	31.9	34.0	32.7	27.3	22.0	16.0	13.3	12.7
87.5°	4.7	5.3	6.0	6.0	6.0	5.3	4.7	4.7	4.0	2.0	2.0
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)