

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: P526556

Luminaire Tested: **GALN-SA1C-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526556  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-730-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5656 lumens  
Efficiency: N/A  
Efficacy: 99.2 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

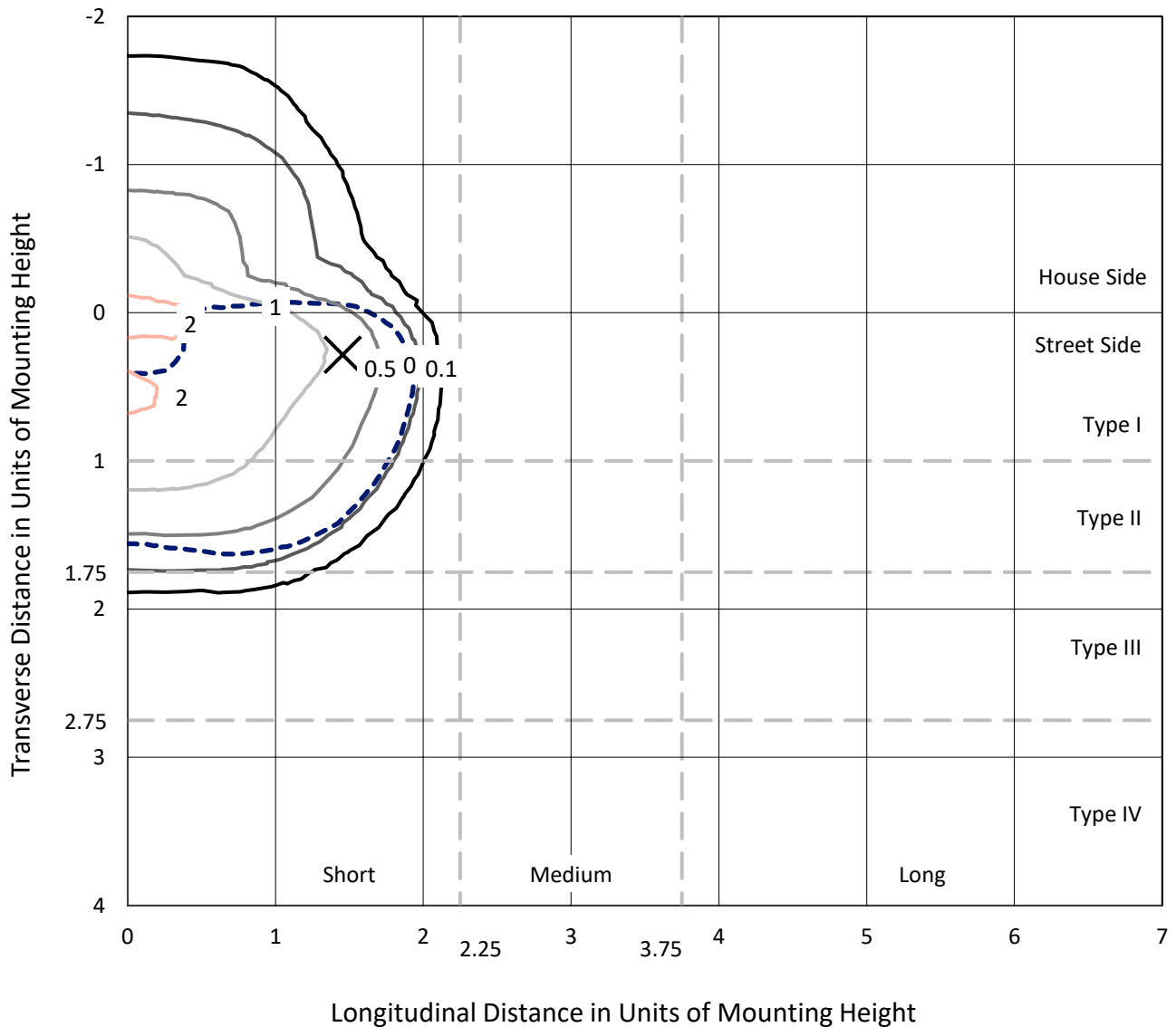
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

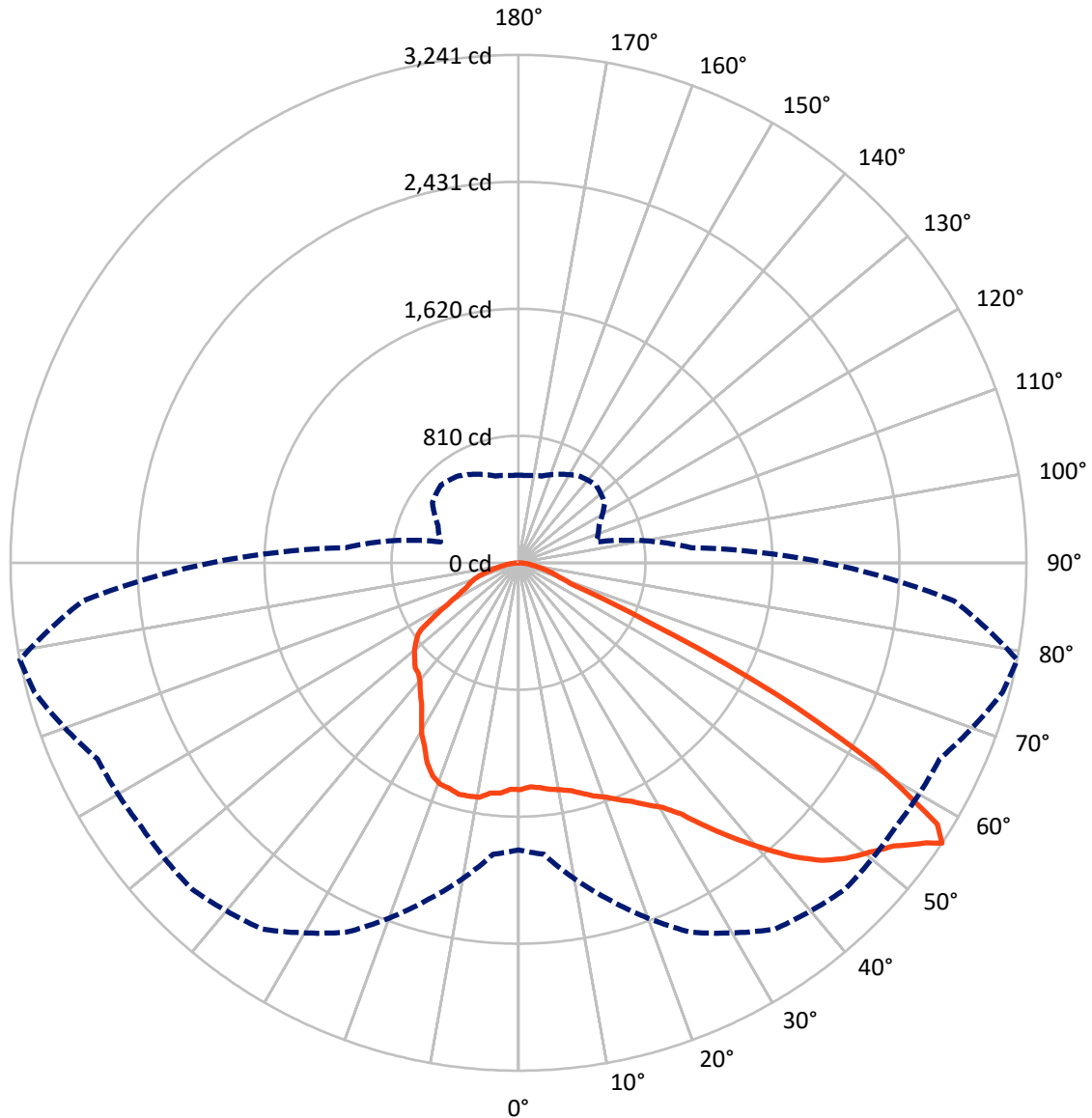
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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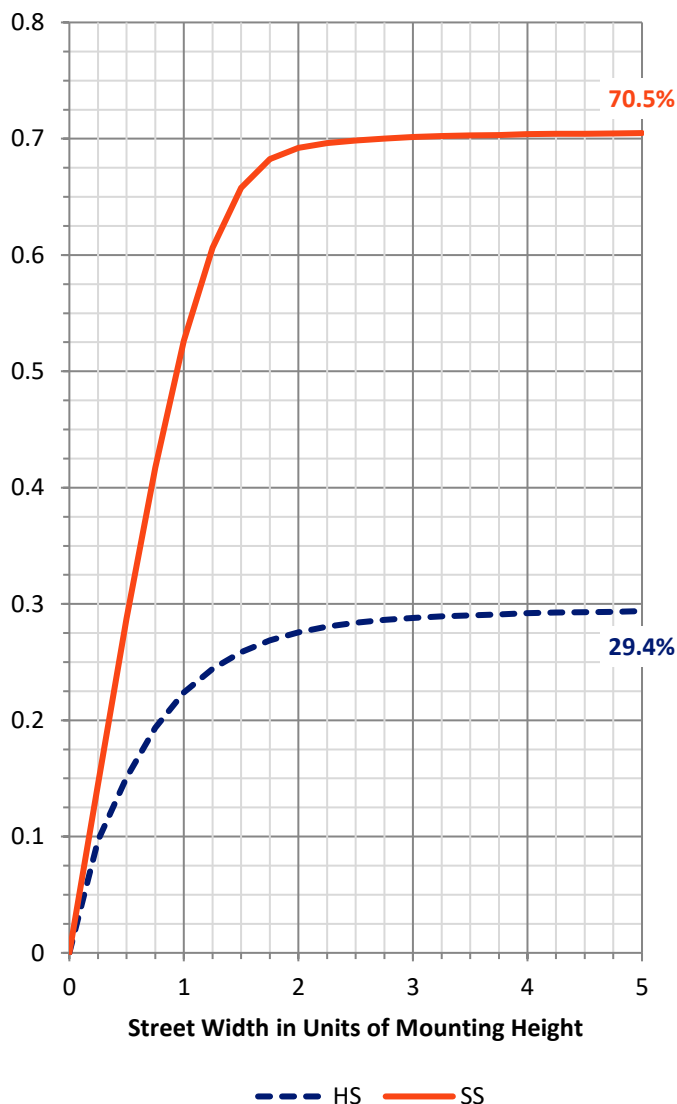
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1670.3	0.0	1670.3
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	3985.7	0.0	3985.7
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	5656.0	0.0	5656.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.6	2.3
10°-20°	360.1	6.4
20°-30°	616.0	10.9
30°-40°	944.1	16.7
40°-50°	1276.0	22.6
50°-60°	1465.5	25.9
60°-70°	668.0	11.8
70°-80°	164.7	2.9
80°-90°	29.9	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°	5656.0	100.0
0°-180°	5656.0	100.0



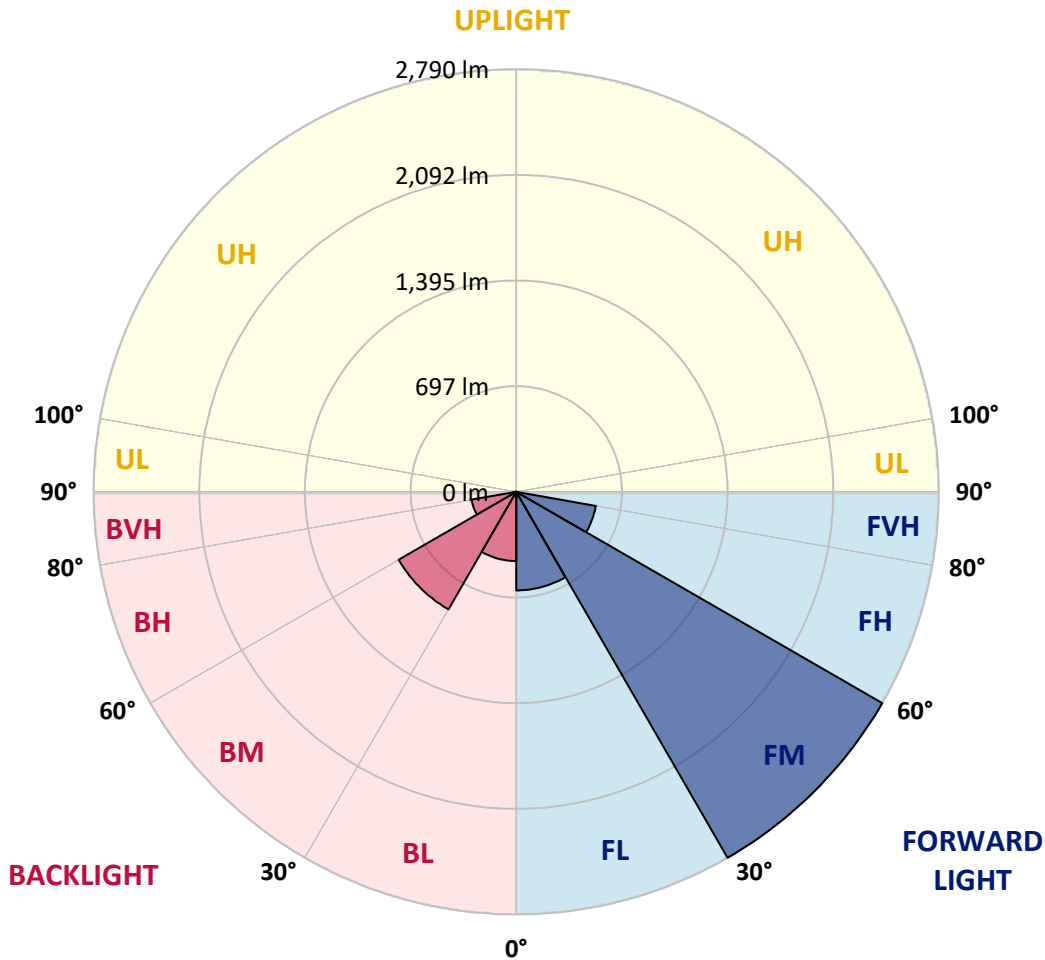
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	650.8	11.5			
FM (30°-60°)	2789.7	49.3			
FH (60°-80°)	533.2	9.4			G0/660
FVH (80°-90°)	11.9	0.2			G1/100
BL (0°-30°)	456.9	8.1	B1/500		
BM (30°-60°)	895.9	15.8	B1/1000		
BH (60°-80°)	299.5	5.3	B1/500		G1/500
BVH (80°-90°)	18.0	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°	55°	65°	75°	79°	85°
0°	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1
2.5°	1376.7	1373.2	1381.6	1388.0	1395.7	1405.6	1410.5	1413.3	1438.0	1431.6	1450.7
5°	1347.1	1337.9	1344.3	1349.2	1362.6	1374.6	1388.0	1409.1	1431.6	1441.5	1464.8
7.5°	1321.0	1316.1	1314.7	1318.2	1336.5	1352.0	1375.3	1406.3	1442.9	1459.1	1472.5
10°	1278.1	1271.0	1281.6	1304.8	1309.8	1342.2	1368.9	1413.3	1445.0	1473.2	1512.7
12.5°	1259.0	1252.0	1254.1	1267.5	1302.0	1333.0	1364.7	1414.7	1481.7	1492.9	1545.8
15°	1289.3	1282.3	1284.4	1280.9	1314.0	1330.2	1380.2	1442.9	1507.0	1526.1	1582.4
17.5°	1358.4	1359.1	1349.9	1342.2	1334.4	1368.9	1403.5	1459.8	1516.9	1564.8	1607.1
20°	1490.1	1466.9	1448.6	1404.9	1392.9	1407.7	1451.4	1505.6	1557.1	1596.5	1644.4
22.5°	1591.6	1593.7	1567.6	1495.8	1469.7	1476.0	1513.4	1557.8	1614.1	1642.3	1697.3
25°	1738.8	1724.0	1695.9	1638.8	1580.3	1585.2	1612.7	1652.9	1668.4	1688.1	1748.0
27.5°	1873.4	1877.6	1822.0	1768.4	1695.9	1681.8	1731.1	1738.1	1712.1	1749.4	1769.8
30°	2010.1	2006.6	1969.9	1907.2	1836.1	1838.9	1860.7	1826.2	1790.3	1810.7	1824.8
32.5°	2151.7	2111.5	2110.1	2053.8	1999.5	1973.4	1946.7	1963.6	1907.9	1912.1	1898.8
35°	2265.1	2270.8	2238.4	2198.2	2171.4	2125.6	2052.4	2082.7	2072.1	2067.2	2009.4
37.5°	2347.6	2325.7	2341.9	2328.5	2303.2	2246.1	2170.0	2198.9	2203.8	2227.8	2160.9
40°	2415.2	2406.0	2449.0	2456.1	2438.4	2315.2	2178.5	2264.4	2338.4	2390.5	2310.9
42.5°	2447.6	2467.3	2512.4	2566.7	2527.2	2395.5	2222.2	2314.4	2479.3	2561.7	2453.2
45°	2491.3	2465.9	2532.9	2632.2	2632.9	2463.1	2264.4	2382.1	2589.2	2709.0	2550.5
47.5°	2446.9	2459.6	2528.6	2654.7	2687.2	2534.3	2378.6	2477.9	2710.4	2816.8	2640.7
50°	2347.6	2372.9	2499.0	2630.1	2728.0	2609.7	2509.6	2581.5	2822.4	2903.5	2655.5
52.5°	2244.0	2258.1	2455.4	2649.1	2746.3	2706.9	2685.0	2724.5	2959.1	3001.4	2673.8
55°	1962.2	2029.1	2310.9	2640.7	2835.8	2882.3	2865.4	2923.2	3114.1	3156.4	2773.8
56°	1831.8	1867.1	2224.3	2601.2	2853.4	2946.4	2938.0	2964.0	3196.5	3240.9	2789.3
57.5°	1590.9	1593.7	1896.6	2426.5	2787.2	2965.5	2957.0	2977.4	3180.3	3150.0	2653.3
60°	995.5	1039.2	1290.7	1866.4	2370.1	2751.3	2799.2	2635.0	2681.5	2617.4	2064.3
62.5°	515.7	509.4	676.4	1091.3	1573.3	1969.9	2014.3	2006.6	1934.7	1841.0	1348.5
65°	257.2	258.6	353.7	540.4	806.0	1031.5	1155.5	1168.8	977.9	899.7	639.7
67.5°	186.7	193.8	254.3	330.4	379.8	424.8	520.7	510.8	386.8	367.8	341.0
70°	145.1	151.5	206.4	252.2	229.0	229.0	249.4	257.9	275.5	283.2	292.4
72.5°	105.7	110.6	157.8	174.0	150.1	161.3	186.7	206.4	224.8	227.6	238.1
75°	72.6	76.8	103.6	95.8	90.2	111.3	136.7	155.0	168.4	175.4	181.8
77.5°	47.2	48.6	59.2	50.0	57.8	71.9	88.8	104.3	117.7	123.3	124.7
80°	21.1	23.3	25.4	31.7	40.2	51.4	63.4	76.1	84.5	86.7	90.9
82.5°	12.0	12.0	15.5	22.5	29.6	37.3	45.8	55.0	64.8	66.9	66.2
85°	6.3	6.3	9.2	13.4	18.3	21.8	21.1	21.8	23.3	26.8	26.1
87.5°	2.1	2.1	2.8	2.8	3.5	4.2	3.5	4.9	6.3	6.3	6.3
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°	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1	1447.1
2.5°	1445.0	1451.4	1442.9	1461.2	1461.2	1457.7	1440.1	1445.7	1450.0	1450.0	1453.5
5°	1472.5	1470.4	1476.0	1454.2	1440.8	1435.9	1407.0	1392.9	1380.9	1380.2	1369.6
7.5°	1488.0	1482.4	1480.3	1464.1	1404.9	1368.9	1306.9	1271.0	1263.3	1235.8	1246.3
10°	1512.7	1523.2	1512.7	1424.6	1342.2	1259.7	1199.1	1143.5	1121.6	1104.0	1093.5
12.5°	1563.4	1558.5	1497.2	1378.1	1262.6	1164.6	1074.4	1016.0	994.1	978.6	977.2
15°	1606.4	1581.7	1488.0	1304.8	1138.6	1034.3	960.3	918.7	908.9	910.3	916.6
17.5°	1621.2	1604.3	1440.1	1228.7	1046.3	923.7	889.1	882.8	892.0	902.5	905.3
20°	1644.4	1617.6	1420.4	1125.2	932.1	854.6	852.5	875.1	892.0	907.5	909.6
22.5°	1693.0	1625.4	1356.3	1027.2	853.9	834.2	854.6	873.6	899.7	912.4	901.1
25°	1707.1	1608.5	1266.1	909.6	804.6	821.5	843.3	869.4	887.7	894.8	899.7
27.5°	1719.1	1582.4	1144.2	831.4	789.1	820.8	843.3	865.2	875.1	881.4	887.0
30°	1752.9	1574.7	1038.5	779.2	779.2	806.7	835.6	841.2	854.6	862.4	872.2
32.5°	1769.8	1521.1	930.0	746.1	769.4	813.8	815.9	826.4	827.1	833.5	822.9
35°	1814.2	1483.1	829.3	722.2	773.6	806.7	817.3	810.9	776.4	759.5	763.0
37.5°	1846.6	1464.1	756.7	719.3	774.3	814.5	820.1	772.2	736.3	708.1	715.1
40°	1934.0	1416.9	701.7	714.4	780.6	822.9	807.4	755.3	690.5	661.6	656.6
42.5°	2000.9	1383.0	667.2	708.8	785.6	834.9	801.1	721.5	655.2	628.5	635.5
45°	2078.4	1375.3	648.9	710.2	794.0	841.2	793.3	695.4	624.9	614.4	612.3
47.5°	2105.9	1319.6	629.2	698.2	791.9	839.1	767.3	675.7	613.7	615.1	620.7
50°	2060.1	1262.6	614.4	673.6	777.8	820.1	726.4	649.6	607.3	624.9	634.8
52.5°	2001.6	1204.1	584.1	640.4	748.9	790.5	707.4	648.2	601.0	595.3	597.5
55°	2019.2	1156.2	541.8	595.3	702.4	735.6	686.2	634.8	585.5	564.3	571.4
56°	1962.2	1106.8	514.3	567.2	670.7	700.3	675.7	622.8	572.8	558.7	558.7
57.5°	1800.8	941.3	478.4	522.1	603.8	639.0	655.2	615.8	558.7	534.0	534.8
60°	1328.1	669.3	429.1	460.1	500.2	528.4	603.8	596.0	523.5	506.6	500.2
62.5°	818.7	489.0	393.8	405.8	426.3	449.5	527.0	539.7	486.1	467.8	463.6
65°	458.7	374.1	367.1	372.0	381.9	393.8	437.5	465.7	429.1	400.9	399.5
67.5°	335.4	334.7	340.3	344.5	348.8	348.8	359.3	370.6	365.7	343.1	341.0
70°	298.0	300.1	304.4	305.1	306.5	301.5	293.1	289.6	295.2	281.1	278.3
72.5°	245.9	252.9	257.9	258.6	250.8	244.5	233.2	221.2	217.0	214.2	213.5
75°	188.8	193.8	195.9	195.2	192.3	183.2	169.8	157.8	150.1	141.6	145.8
77.5°	127.5	134.6	138.1	138.1	133.9	119.8	113.4	104.3	96.5	87.4	88.8
80°	89.5	94.4	100.0	99.3	92.3	85.3	76.1	67.6	61.3	54.3	53.5
82.5°	66.9	69.8	72.6	71.2	66.2	59.2	52.8	45.1	38.0	33.1	33.1
85°	24.0	26.1	31.7	33.1	35.9	35.9	30.3	25.4	20.4	16.9	16.9
87.5°	7.0	7.0	7.8	7.8	7.0	7.8	6.3	7.0	7.8	4.9	4.9
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)