

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: P650715

Luminaire Tested: **GALN-SA1C-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5969.4 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

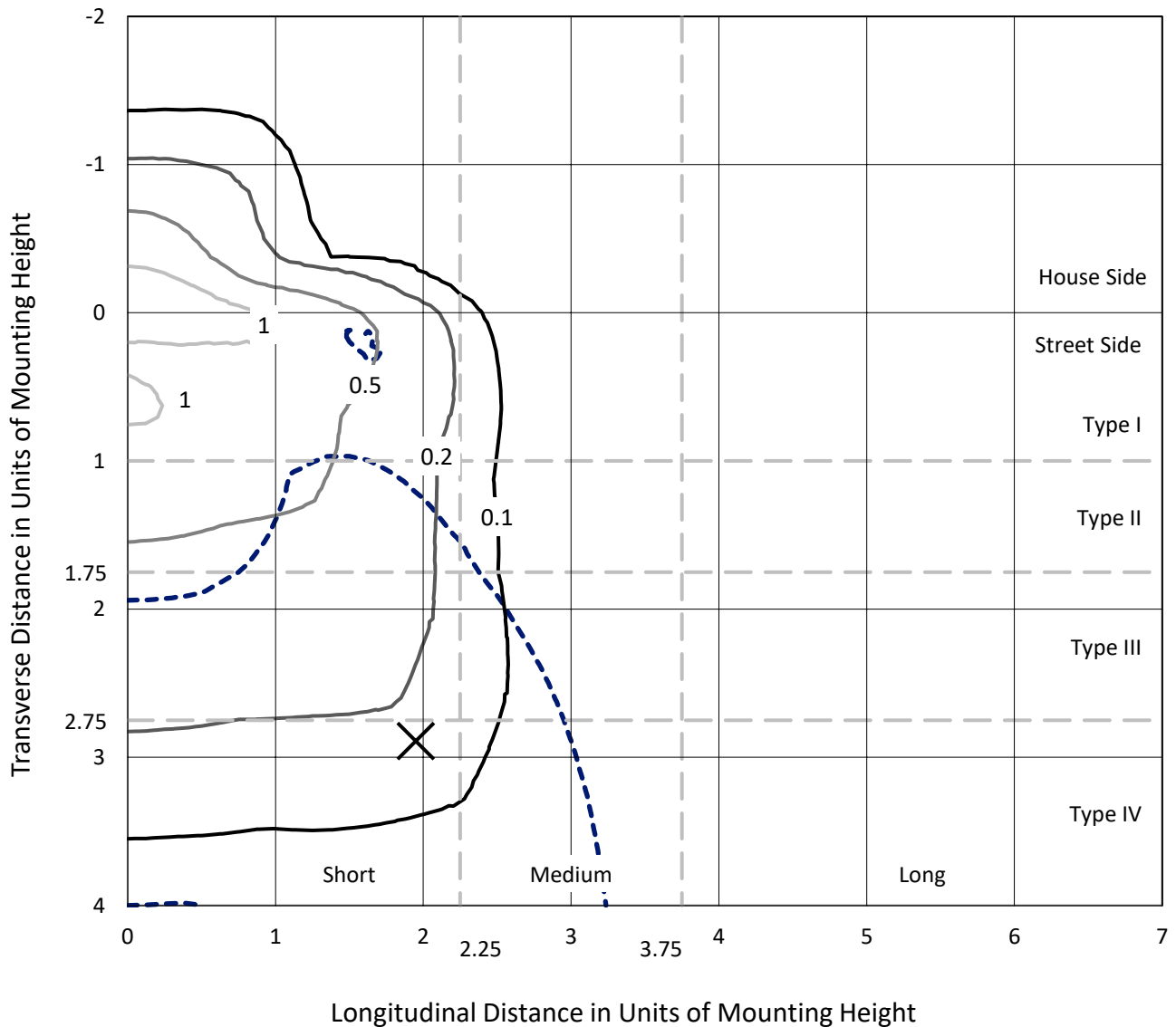
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650715
 CATALOG NUMBER: GALN-SA1C-840-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

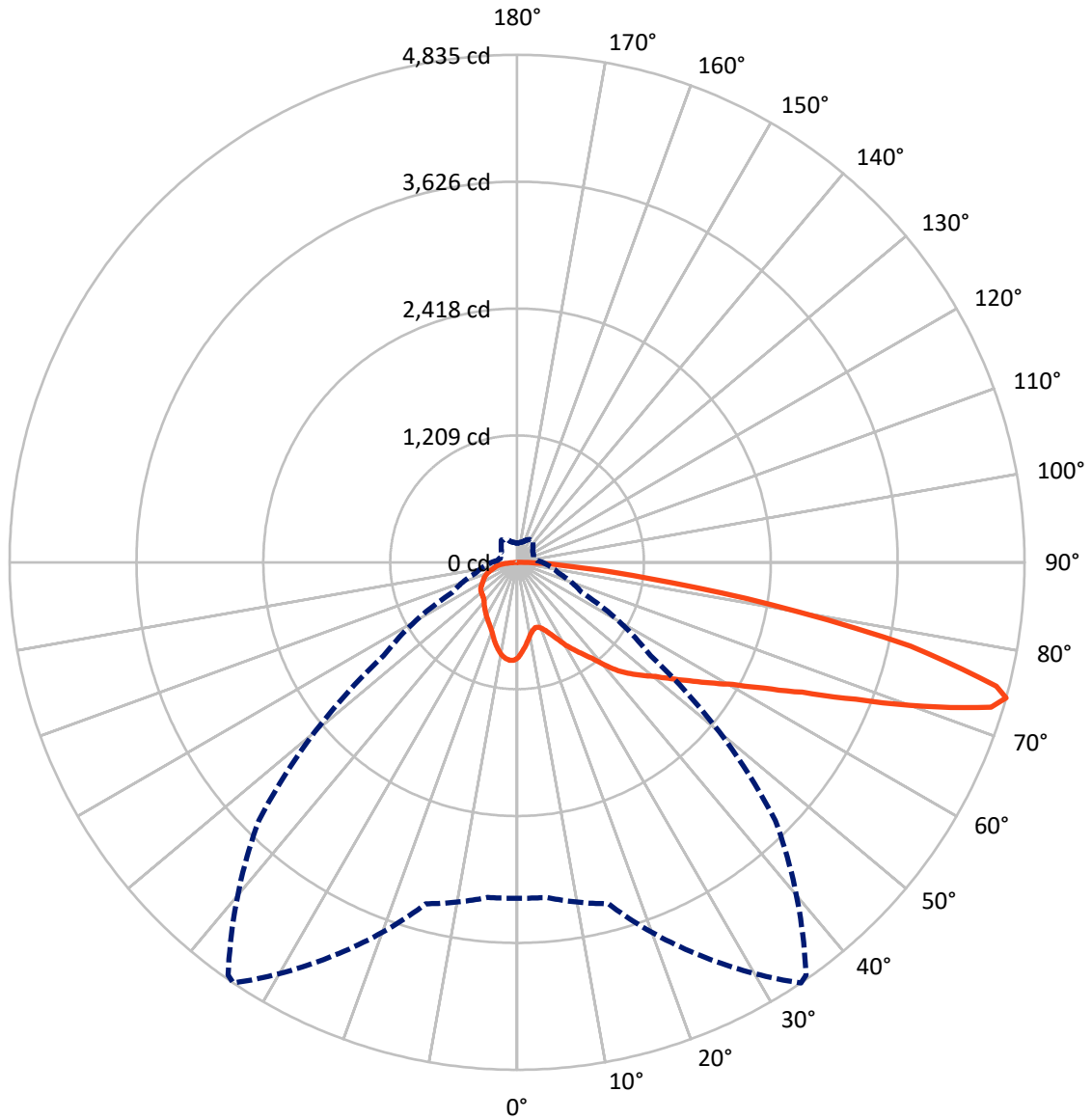
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P650715
CATALOG NUMBER: GALN-SA1C-840-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P650715
 CATALOG NUMBER: GALN-SA1C-840-U-T4FT

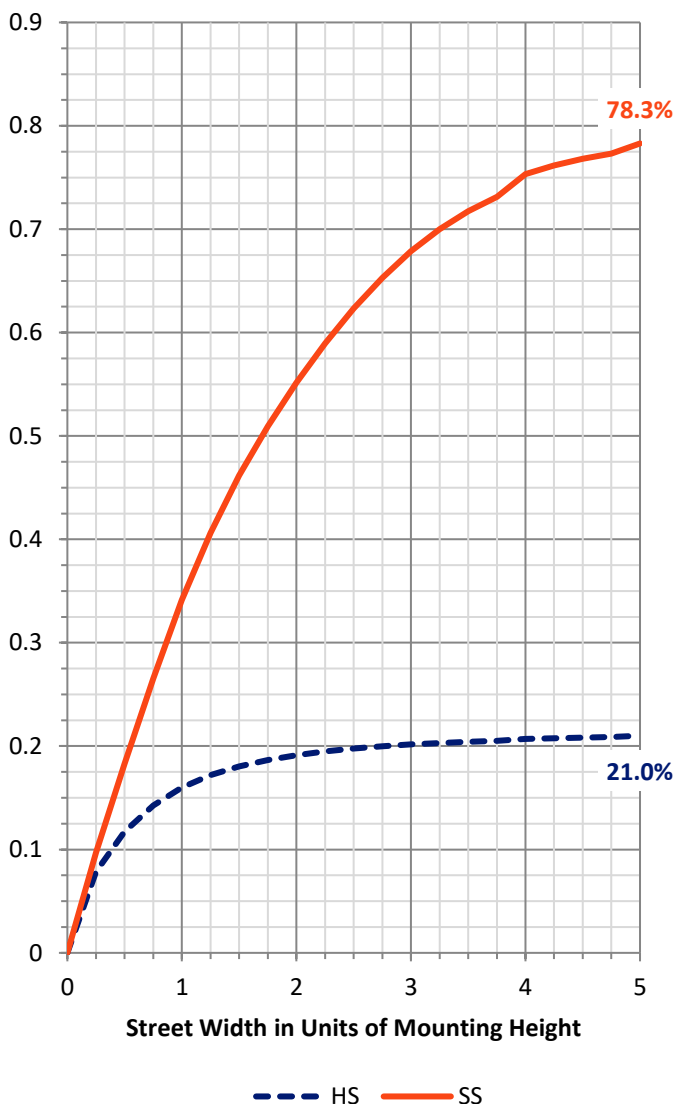
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1270.3	0.0	1270.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4699.1	0.0	4699.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	5969.4	0.0	5969.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	1.4
10°-20°	226.9	3.8
20°-30°	374.1	6.3
30°-40°	560.4	9.4
40°-50°	814.6	13.6
50°-60°	1137.8	19.1
60°-70°	1424.5	23.9
70°-80°	1178.0	19.7
80°-90°	170.2	2.9
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°	5969.4	100.0
0°-180°	5969.4	100.0

Coefficient of Utilization

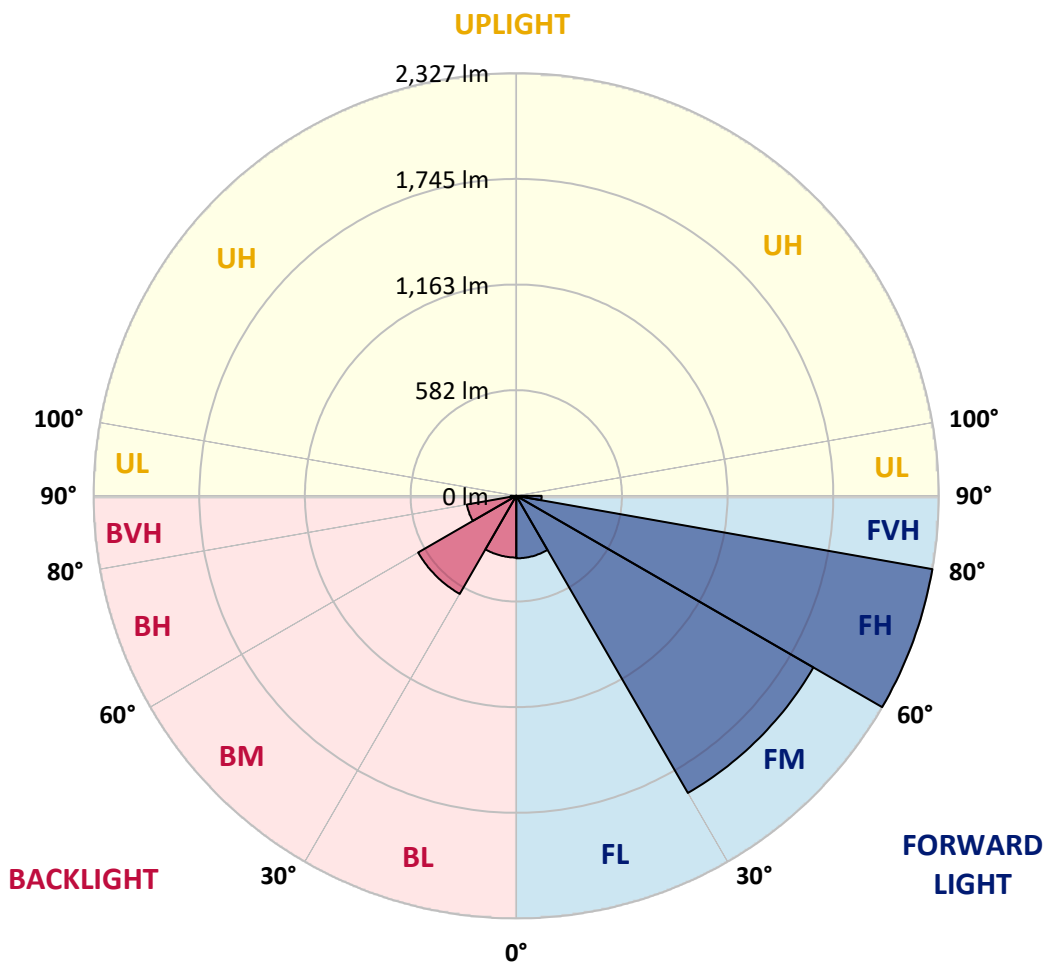


REPORT NUMBER: P650715
 CATALOG NUMBER: GALN-SA1C-840-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	344.1	5.8			
FM (30°-60°)	1889.0	31.6			
FH (60°-80°)	2326.6	39.0			G2/5000
FVH (80°-90°)	139.4	2.3			G2/225
BL (0°-30°)	339.8	5.7	B1/500		
BM (30°-60°)	623.9	10.5	B1/1000		
BH (60°-80°)	275.9	4.6	B1/500		G1/500
BVH (80°-90°)	30.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





REPORT NUMBER: P650715
 CATALOG NUMBER: GALN-SA1C-840-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	911.4	911.4	911.4	911.4	911.4	911.4	911.4	911.4	911.4	911.4	911.4
2.5°	842.3	846.6	848.9	857.1	859.2	861.8	868.8	878.0	889.9	900.5	909.8
5°	772.2	778.8	782.8	790.0	804.2	805.6	824.1	845.3	869.4	891.9	910.4
7.5°	705.7	713.0	716.3	729.6	748.4	751.3	778.4	811.9	852.2	886.2	914.8
10°	655.8	659.4	666.7	676.6	699.1	701.1	736.5	781.1	833.3	883.6	922.0
12.5°	628.6	630.7	632.3	642.9	665.1	668.0	705.1	755.6	818.5	885.7	933.9
15°	632.6	633.3	626.0	628.0	645.9	650.2	686.8	738.8	809.2	890.6	951.8
17.5°	666.1	663.7	645.9	636.6	649.2	651.2	683.2	732.2	804.9	899.9	970.3
20°	718.6	715.3	684.6	664.1	671.3	673.0	695.2	737.1	809.2	915.0	999.0
22.5°	784.1	782.8	736.1	711.3	711.0	711.0	722.6	755.0	822.2	935.9	1029.1
25°	875.7	868.8	807.9	775.8	766.9	766.2	764.9	784.4	838.6	958.1	1064.9
27.5°	969.6	957.7	903.5	854.2	835.0	832.7	824.1	826.1	859.8	983.2	1105.5
30°	1053.9	1046.4	995.4	940.8	918.0	912.7	888.9	878.0	895.2	1028.5	1170.3
32.5°	1118.4	1113.8	1074.1	1024.5	990.8	989.8	955.0	946.1	950.4	1083.4	1244.4
35°	1170.7	1172.4	1152.2	1109.2	1070.5	1064.9	1041.7	1030.5	1017.9	1162.8	1337.7
37.5°	1242.1	1245.8	1244.4	1207.4	1160.1	1161.4	1156.1	1137.6	1104.2	1251.4	1441.2
40°	1320.8	1323.5	1323.1	1308.9	1284.1	1285.5	1283.5	1262.3	1212.4	1364.1	1556.3
42.5°	1429.6	1417.1	1384.3	1398.5	1413.0	1419.4	1432.9	1412.8	1344.3	1484.5	1664.4
45°	1551.3	1527.5	1453.4	1460.1	1514.0	1525.8	1600.6	1572.8	1487.5	1622.7	1791.8
47.5°	1628.0	1604.5	1542.1	1540.7	1612.2	1623.7	1756.0	1745.7	1617.7	1771.9	1947.2
50°	1696.5	1693.2	1622.7	1639.6	1709.4	1726.6	1925.3	1915.7	1747.8	1947.8	2116.5
52.5°	1798.1	1771.2	1715.1	1749.7	1842.0	1864.5	2093.3	2065.2	1867.1	2103.3	2280.9
55°	1843.6	1837.4	1834.1	1864.2	1990.8	2007.0	2256.7	2192.2	1969.0	2234.9	2405.8
57.5°	1965.7	1954.1	1986.9	2007.4	2166.1	2190.9	2427.4	2324.9	2058.3	2339.4	2466.7
60°	2123.8	2117.5	2147.6	2184.6	2361.9	2399.5	2621.8	2437.9	2130.1	2392.0	2433.3
62.5°	2359.8	2359.3	2353.6	2432.9	2639.3	2674.0	2845.0	2548.1	2141.3	2352.6	2260.7
65°	2698.5	2686.6	2637.7	2724.3	2984.5	3025.2	3077.5	2609.5	2073.5	2150.5	1903.5
67.5°	3052.7	3052.1	3012.4	3124.8	3480.3	3522.3	3368.2	2596.0	1885.4	1742.1	1351.9
70°	3346.3	3332.1	3382.8	3682.3	4113.6	4162.2	3622.5	2436.3	1501.7	1150.5	803.2
72.5°	3416.8	3417.5	3522.6	4112.2	4721.7	4729.4	3714.1	1974.6	1005.0	634.6	401.8
74°	3199.8	3205.5	3368.5	4133.8	4835.2	4800.8	3480.0	1552.0	679.6	414.4	289.7
75°	2920.8	2885.4	3121.1	3990.5	4717.4	4680.4	3205.8	1245.4	518.6	331.0	253.6
77.5°	1561.6	1597.6	1961.4	2978.0	3832.5	3789.8	2173.7	597.3	280.1	230.5	182.6
80°	555.9	613.1	861.8	1558.3	2457.1	2470.4	1037.4	273.8	197.1	170.0	129.0
82.5°	226.9	233.1	370.0	691.5	1247.7	1259.6	423.6	162.7	140.9	117.1	77.0
85°	88.6	91.2	163.7	310.8	532.4	567.2	146.5	86.0	86.6	67.1	39.4
87.5°	29.8	33.7	67.1	103.5	180.9	177.3	42.6	25.5	31.1	29.1	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P650715
 CATALOG NUMBER: GALN-SA1C-840-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	911.4	911.4	911.4	911.4	911.4	911.4	911.4	911.4	911.4	911.4	911.4
2.5°	914.4	920.6	924.9	929.6	933.9	935.2	934.3	937.2	937.5	937.9	938.2
5°	919.7	928.3	936.5	941.2	943.2	941.5	935.9	932.9	930.2	928.3	929.0
7.5°	927.0	939.2	946.8	948.8	943.5	935.9	922.0	911.1	904.2	899.5	899.2
10°	938.2	950.1	956.4	950.8	936.2	917.7	895.8	875.4	859.8	855.2	854.9
12.5°	952.4	966.0	965.6	949.2	923.7	890.6	855.2	831.4	810.2	799.6	803.9
15°	970.9	981.2	971.6	941.8	901.5	856.2	812.6	780.1	756.3	745.0	745.7
17.5°	992.5	1001.4	975.9	929.0	870.4	812.2	761.6	730.8	712.0	703.7	703.1
20°	1019.2	1021.9	975.9	906.4	830.4	760.9	712.7	691.1	680.6	676.2	677.6
22.5°	1048.0	1042.7	970.6	874.7	777.8	707.4	675.0	665.4	660.1	659.4	660.1
25°	1080.4	1065.5	959.7	831.7	722.9	661.1	642.2	643.9	644.9	644.9	647.1
27.5°	1120.0	1090.4	941.5	777.5	658.8	618.1	612.8	624.4	629.7	630.7	632.3
30°	1172.4	1117.4	911.4	709.7	604.2	579.4	588.6	604.2	610.1	613.8	613.1
32.5°	1234.5	1147.2	870.8	641.9	560.2	552.3	563.6	579.4	586.0	588.0	585.3
35°	1307.6	1180.9	817.2	578.4	521.8	526.5	539.7	544.6	550.6	550.6	551.9
37.5°	1386.3	1208.0	751.7	520.2	492.1	509.0	518.6	513.9	511.2	508.0	509.6
40°	1466.4	1228.2	666.7	462.6	462.3	490.7	493.4	480.2	469.6	466.3	464.7
42.5°	1536.1	1240.8	590.0	418.0	434.2	472.9	474.9	453.7	436.8	427.0	423.6
45°	1618.4	1255.4	514.9	381.0	408.1	458.7	463.6	435.2	410.4	389.6	384.3
47.5°	1731.2	1288.4	455.7	352.2	389.2	449.8	456.7	420.0	387.3	360.1	355.8
50°	1858.5	1333.7	409.7	332.7	374.7	441.8	450.4	404.4	365.8	335.6	332.4
52.5°	1975.3	1358.2	370.0	315.1	360.5	427.2	442.1	393.2	344.6	311.2	308.2
55°	2039.1	1318.5	331.0	298.0	340.9	408.4	430.6	377.7	324.1	298.3	294.0
57.5°	2047.7	1236.5	295.6	279.5	320.4	385.3	409.1	358.8	310.8	289.4	285.7
60°	1981.2	1114.2	268.2	264.2	299.6	359.1	384.9	342.3	297.3	279.5	275.8
62.5°	1815.9	981.2	249.0	250.4	278.5	331.7	367.1	326.4	284.4	268.5	265.3
65°	1531.5	809.9	230.5	236.2	259.6	310.2	350.9	313.2	271.5	260.3	257.3
67.5°	1063.9	584.7	215.3	221.3	241.7	288.4	332.0	299.0	256.9	251.0	246.4
70°	589.0	359.8	197.5	204.4	223.2	263.9	310.8	277.4	235.8	233.1	226.6
72.5°	309.6	229.2	177.3	184.9	198.1	232.5	278.5	254.0	215.0	203.7	195.1
74°	241.7	187.9	163.7	171.6	180.6	214.0	259.3	237.1	200.1	186.9	180.2
75°	210.7	167.4	152.1	162.4	170.3	201.4	244.4	225.2	191.8	179.2	173.2
77.5°	148.9	125.3	124.4	136.6	140.9	176.6	220.3	205.0	171.0	157.8	152.1
80°	104.5	93.9	98.6	106.1	112.1	156.1	204.4	177.3	140.2	124.6	122.7
82.5°	68.1	61.5	70.5	77.4	79.4	115.0	165.0	134.6	102.2	83.0	77.0
85°	31.5	30.8	40.4	39.4	39.0	56.2	97.9	78.7	58.9	44.0	41.4
87.5°	7.9	7.6	9.9	8.2	9.9	8.6	8.9	2.4	0.3	0.0	0.0
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)