

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: P458597

Luminaire Tested: **GALN-SA1C-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458597
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-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 6612 lumens
Efficiency: N/A
Efficacy: 116.0 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

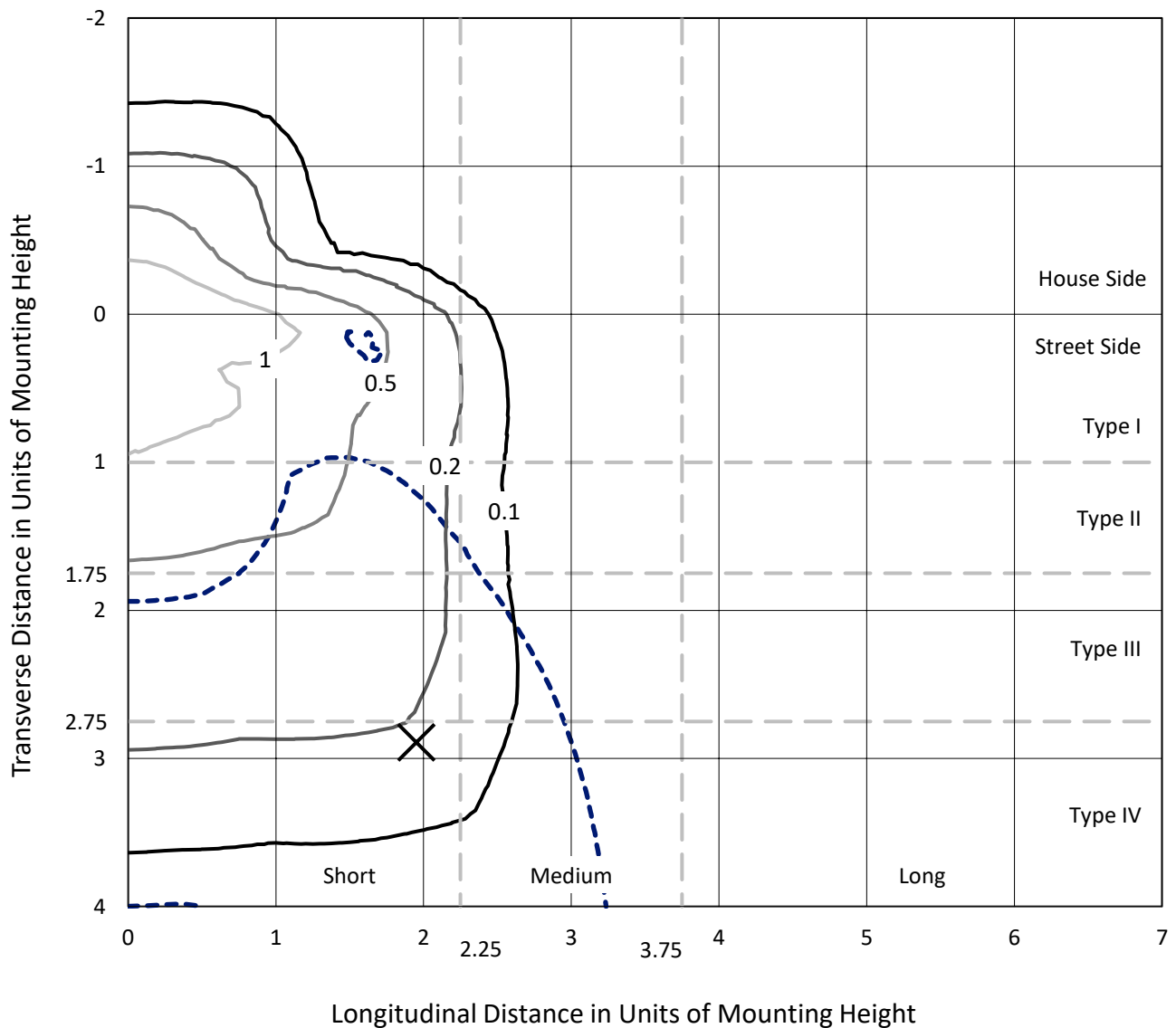
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458597
 CATALOG NUMBER: GALN-SA1C-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

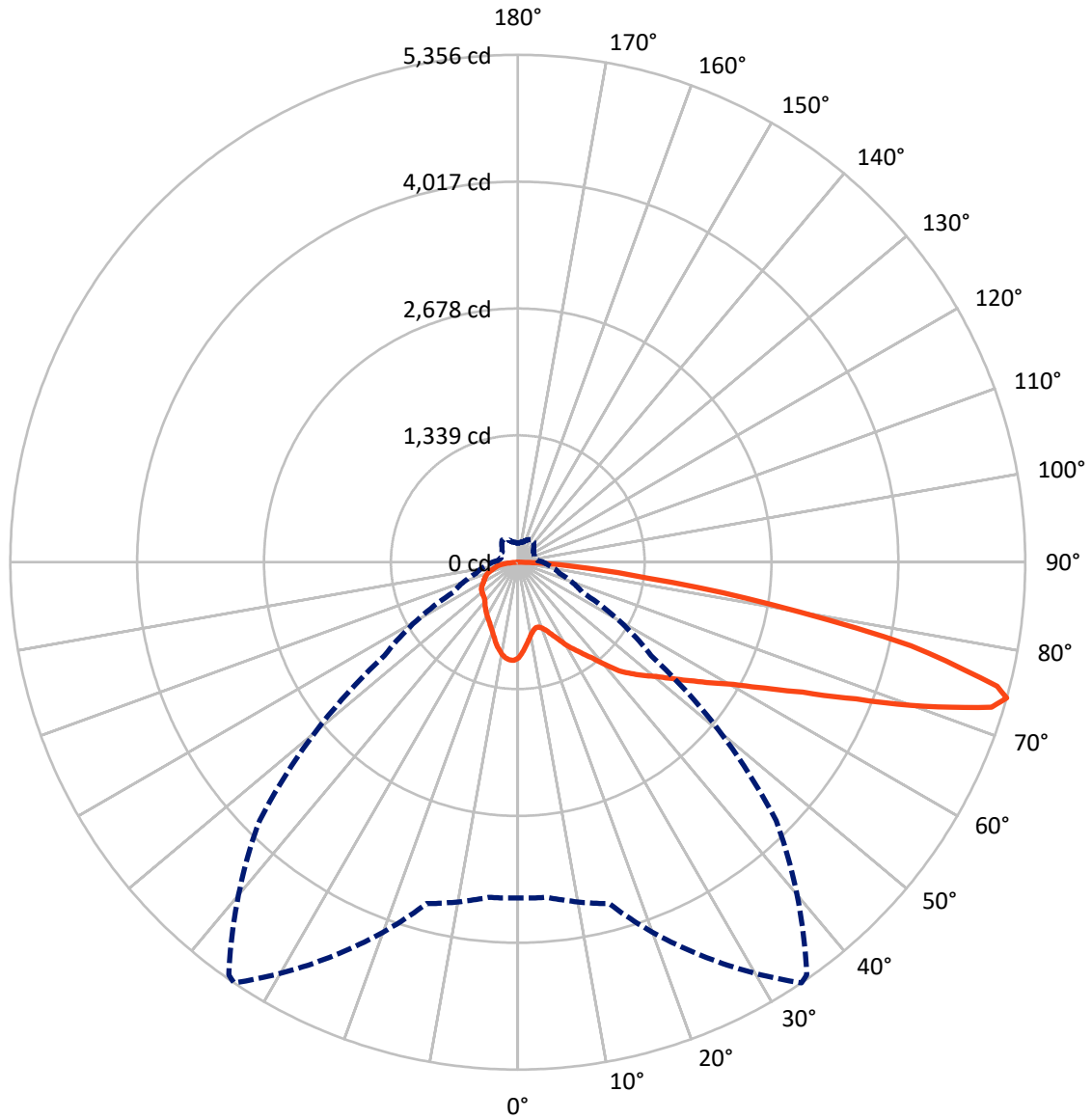
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P458597
CATALOG NUMBER: GALN-SA1C-735-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458597
 CATALOG NUMBER: GALN-SA1C-735-U-T4FT

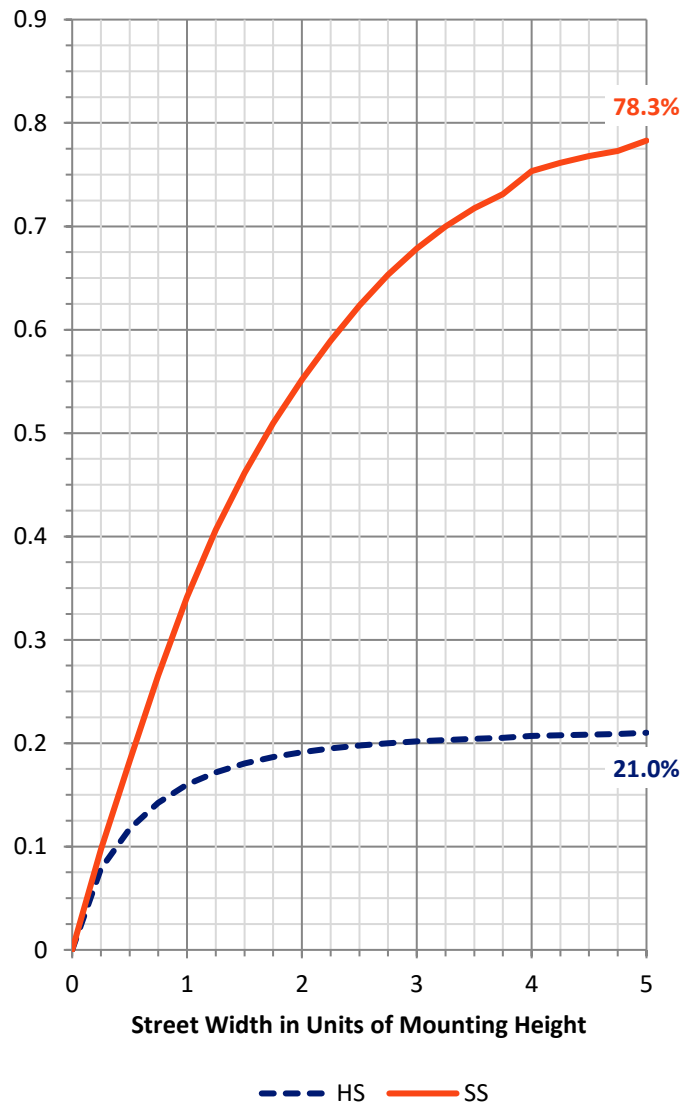
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1407.1	0.0	1407.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	5204.9	0.0	5204.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	6612.0	0.0	6612.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	1.4
10°-20°	251.3	3.8
20°-30°	414.4	6.3
30°-40°	620.7	9.4
40°-50°	902.3	13.6
50°-60°	1260.3	19.1
60°-70°	1577.9	23.9
70°-80°	1304.8	19.7
80°-90°	188.5	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°	6612.0	100.0
0°-180°	6612.0	100.0



REPORT NUMBER: P458597

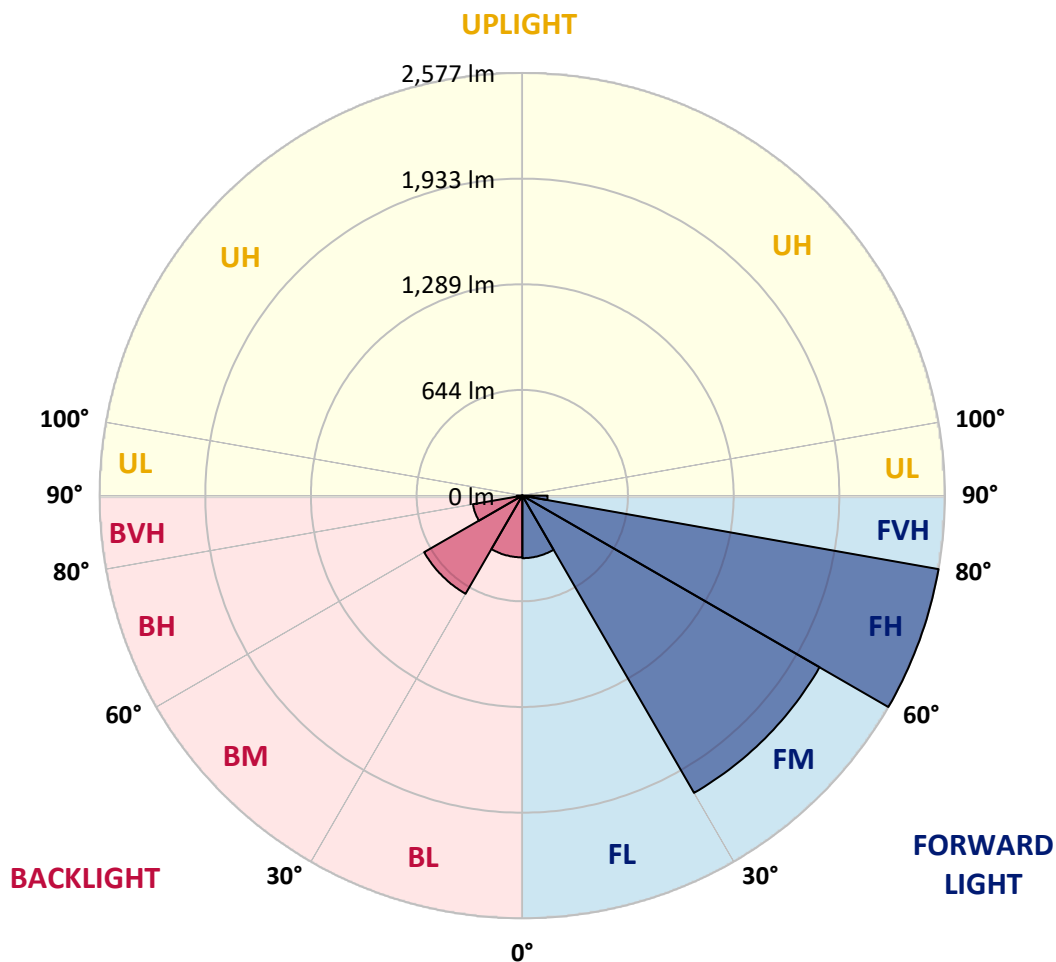
CATALOG NUMBER: GALN-SA1C-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.2	5.8			
FM (30°-60°)	2092.3	31.6			
FH (60°-80°)	2577.0	39.0			G2/5000
FVH (80°-90°)	154.4	2.3			G2/225
BL (0°-30°)	376.4	5.7	B1/500		
BM (30°-60°)	691.0	10.5	B1/1000		
BH (60°-80°)	305.6	4.6	B1/500		G1/500
BVH (80°-90°)	34.1	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: P458597

CATALOG NUMBER: GALN-SA1C-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	933.0	937.7	940.3	949.4	951.6	954.6	962.3	972.5	985.7	997.4	1007.7
5°	855.3	862.6	867.0	875.1	890.8	892.3	912.8	936.3	963.0	987.9	1008.4
7.5°	781.7	789.7	793.4	808.1	828.9	832.2	862.3	899.3	944.0	981.7	1013.2
10°	726.4	730.4	738.5	749.4	774.4	776.6	815.7	865.2	923.1	978.8	1021.2
12.5°	696.3	698.5	700.4	712.1	736.6	739.9	781.0	837.0	906.6	981.0	1034.4
15°	700.7	701.5	693.4	695.6	715.4	720.1	760.8	818.3	896.3	986.4	1054.2
17.5°	737.7	735.2	715.4	705.1	719.0	721.2	756.8	811.0	891.6	996.7	1074.7
20°	796.0	792.3	758.2	735.5	743.6	745.4	770.0	816.5	896.3	1013.6	1106.6
22.5°	868.5	867.0	815.4	787.9	787.5	787.5	800.4	836.3	910.6	1036.6	1139.9
25°	970.0	962.3	894.9	859.3	849.4	848.7	847.3	868.9	928.9	1061.2	1179.5
27.5°	1074.0	1060.8	1000.7	946.2	924.9	922.3	912.8	915.0	952.4	1089.0	1224.5
30°	1167.4	1159.0	1102.6	1042.1	1016.8	1011.0	984.6	972.5	991.6	1139.2	1296.3
32.5°	1238.8	1233.7	1189.7	1134.8	1097.4	1096.3	1057.9	1048.0	1052.7	1200.0	1378.4
35°	1296.7	1298.5	1276.2	1228.6	1185.7	1179.5	1153.8	1141.4	1127.5	1287.9	1481.7
37.5°	1375.8	1379.9	1378.4	1337.4	1285.0	1286.4	1280.6	1260.1	1223.1	1386.1	1596.3
40°	1463.0	1465.9	1465.6	1449.8	1422.3	1423.8	1421.6	1398.2	1342.9	1511.0	1723.8
42.5°	1583.5	1569.6	1533.3	1549.1	1565.2	1572.2	1587.2	1564.8	1489.0	1644.3	1843.6
45°	1718.3	1691.9	1609.9	1617.2	1676.9	1690.1	1772.9	1742.1	1647.6	1797.4	1984.6
47.5°	1803.3	1777.3	1708.1	1706.6	1785.7	1798.5	1945.1	1933.7	1791.9	1962.6	2156.8
50°	1879.1	1875.5	1797.4	1816.1	1893.4	1912.5	2132.6	2122.0	1935.9	2157.5	2344.3
52.5°	1991.6	1961.9	1899.6	1938.1	2040.3	2065.2	2318.7	2287.5	2068.1	2329.7	2526.4
55°	2042.1	2035.2	2031.5	2064.8	2205.1	2223.1	2499.6	2428.2	2180.9	2475.5	2664.8
57.5°	2177.3	2164.5	2200.7	2223.4	2399.3	2426.7	2688.6	2575.1	2279.8	2591.2	2732.2
60°	2352.4	2345.4	2378.7	2419.8	2616.1	2657.9	2904.0	2700.4	2359.3	2649.4	2695.2
62.5°	2613.9	2613.2	2607.0	2694.9	2923.4	2961.9	3151.3	2822.3	2371.8	2605.9	2504.0
65°	2989.0	2975.8	2921.6	3017.6	3305.9	3350.9	3408.8	2890.5	2296.7	2382.0	2108.4
67.5°	3381.3	3380.6	3336.6	3461.2	3854.9	3901.5	3730.8	2875.5	2088.3	1929.7	1497.4
70°	3706.6	3690.8	3746.9	4078.7	4556.4	4610.2	4012.4	2698.5	1663.4	1274.4	889.7
72.5°	3784.6	3785.3	3901.8	4554.9	5230.0	5238.5	4113.9	2187.2	1113.2	702.9	445.1
74°	3544.3	3550.5	3731.1	4578.7	5355.7	5317.6	3854.6	1719.0	752.7	459.0	320.9
75°	3235.2	3196.0	3457.1	4420.1	5225.3	5184.2	3550.9	1379.5	574.4	366.7	281.0
77.5°	1729.7	1769.6	2172.5	3298.5	4245.0	4197.8	2407.7	661.5	310.3	255.3	202.2
80°	615.7	679.1	954.6	1726.0	2721.6	2736.3	1149.1	303.3	218.3	188.3	142.9
82.5°	251.3	258.2	409.9	765.9	1382.0	1395.2	469.2	180.2	156.0	129.7	85.3
85°	98.2	101.1	181.3	344.3	589.7	628.2	162.3	95.2	96.0	74.4	43.6
87.5°	33.0	37.4	74.4	114.7	200.4	196.3	47.3	28.2	34.4	32.2	13.6
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: P458597
 CATALOG NUMBER: GALN-SA1C-735-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1012.8	1019.8	1024.5	1029.7	1034.4	1035.9	1034.8	1038.1	1038.5	1038.8	1039.2
5°	1018.7	1028.2	1037.4	1042.5	1044.7	1042.9	1036.6	1033.3	1030.4	1028.2	1028.9
7.5°	1026.7	1040.3	1048.7	1050.9	1045.1	1036.6	1021.2	1009.2	1001.5	996.3	996.0
10°	1039.2	1052.4	1059.3	1053.1	1037.0	1016.5	992.3	969.6	952.4	947.3	946.9
12.5°	1054.9	1070.0	1069.6	1051.3	1023.1	986.4	947.3	920.9	897.4	885.7	890.5
15°	1075.5	1086.8	1076.2	1043.2	998.5	948.3	900.0	864.1	837.7	825.3	826.0
17.5°	1099.3	1109.2	1081.0	1028.9	964.1	899.6	843.6	809.5	788.6	779.5	778.8
20°	1128.9	1131.9	1081.0	1004.0	919.8	842.9	789.4	765.6	753.8	749.1	750.5
22.5°	1160.8	1154.9	1075.1	968.9	861.5	783.5	747.6	737.0	731.1	730.4	731.1
25°	1196.7	1180.2	1063.0	921.2	800.7	732.2	711.4	713.2	714.3	714.3	716.8
27.5°	1240.7	1207.7	1042.9	861.2	729.7	684.6	678.8	691.6	697.4	698.5	700.4
30°	1298.5	1237.7	1009.5	786.1	669.2	641.8	652.0	669.2	675.8	679.9	679.1
32.5°	1367.4	1270.7	964.5	711.0	620.5	611.7	624.2	641.8	649.1	651.3	648.4
35°	1448.3	1308.1	905.1	640.7	578.0	583.1	597.8	603.3	609.9	609.9	611.4
37.5°	1535.5	1338.1	832.6	576.2	545.1	563.7	574.4	569.2	566.3	562.6	564.5
40°	1624.2	1360.4	738.5	512.5	512.1	543.6	546.5	531.9	520.1	516.5	514.7
42.5°	1701.5	1374.4	653.5	463.0	481.0	523.8	526.0	502.6	483.9	472.9	469.2
45°	1792.7	1390.5	570.3	422.0	452.0	508.1	513.6	482.1	454.6	431.5	425.6
47.5°	1917.6	1427.1	504.8	390.1	431.1	498.2	505.9	465.2	428.9	398.9	394.1
50°	2058.6	1477.3	453.8	368.5	415.0	489.4	498.9	448.0	405.1	371.8	368.1
52.5°	2187.9	1504.4	409.9	349.1	399.3	473.3	489.7	435.5	381.7	344.7	341.4
55°	2258.6	1460.4	366.7	330.0	377.7	452.4	476.9	418.3	359.0	330.4	325.6
57.5°	2268.1	1369.6	327.5	309.5	354.9	426.7	453.1	397.4	344.3	320.5	316.5
60°	2194.5	1234.1	297.1	292.7	331.9	397.8	426.4	379.1	329.3	309.5	305.5
62.5°	2011.4	1086.8	275.8	277.3	308.4	367.4	406.6	361.5	315.0	297.4	293.8
65°	1696.3	897.1	255.3	261.5	287.5	343.6	388.6	346.9	300.7	288.3	285.0
67.5°	1178.4	647.6	238.5	245.1	267.8	319.4	367.8	331.1	284.6	278.0	272.9
70°	652.4	398.5	218.7	226.4	247.3	292.3	344.3	307.3	261.2	258.2	250.9
72.5°	342.9	253.8	196.3	204.8	219.4	257.5	308.4	281.3	238.1	225.6	216.1
74°	267.8	208.1	181.3	190.1	200.0	237.0	287.2	262.6	221.6	207.0	199.6
75°	233.3	185.3	168.5	179.9	188.6	223.1	270.7	249.5	212.5	198.5	191.9
77.5°	164.8	138.8	137.7	151.3	156.0	195.6	244.0	227.1	189.4	174.7	168.5
80°	115.8	104.0	109.2	117.6	124.2	172.9	226.4	196.3	155.3	138.1	135.9
82.5°	75.5	68.1	78.0	85.7	87.9	127.5	182.8	149.1	113.2	91.9	85.3
85°	34.8	34.1	44.7	43.6	43.2	62.3	108.4	87.2	65.2	48.7	45.8
87.5°	8.8	8.4	11.0	9.2	11.0	9.5	9.9	2.6	0.4	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)