

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: P451144

Luminaire Tested: **GALN-SA2A-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451144
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-SA2A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7674 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

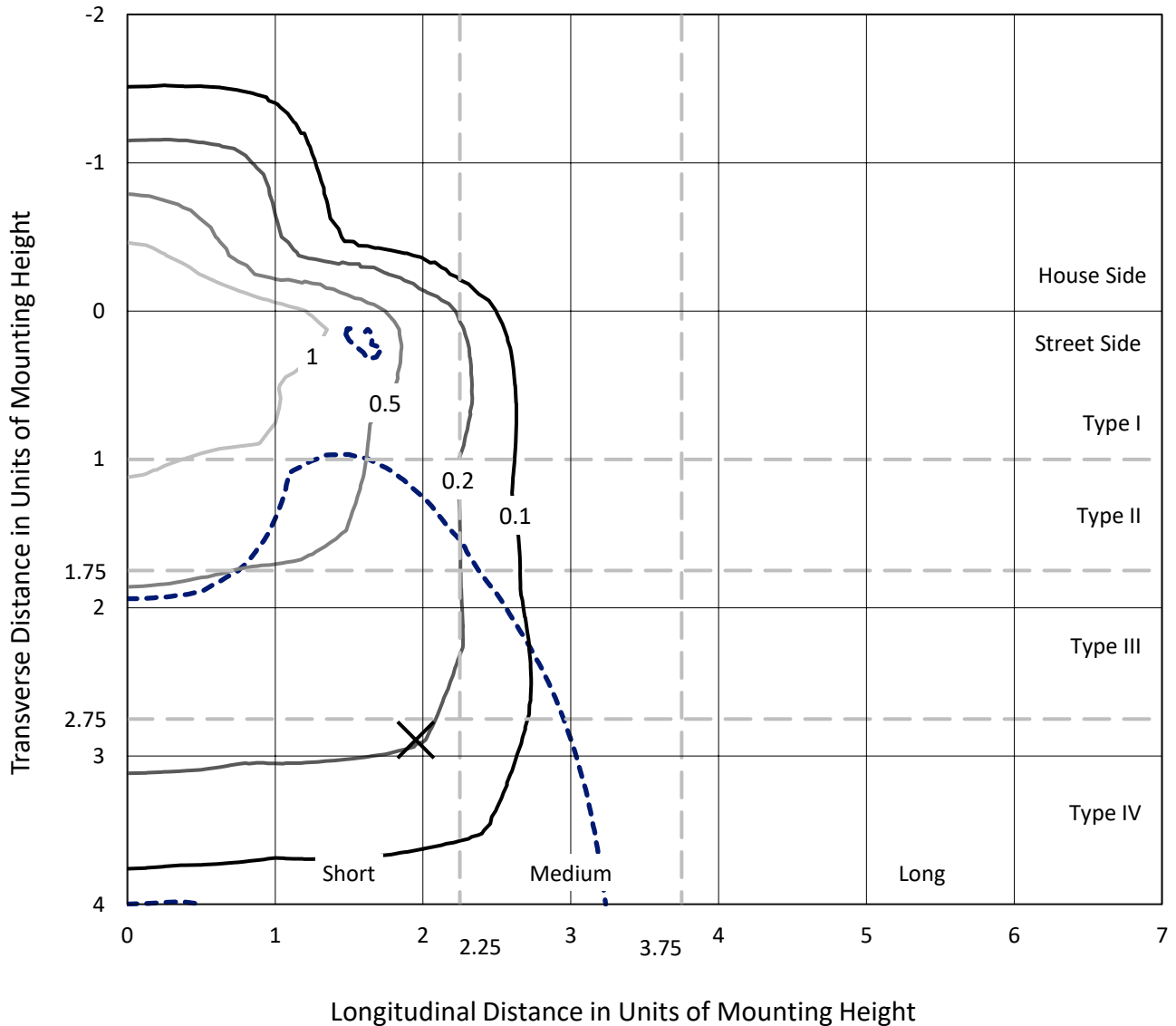
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451144
 CATALOG NUMBER: GALN-SA2A-727-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

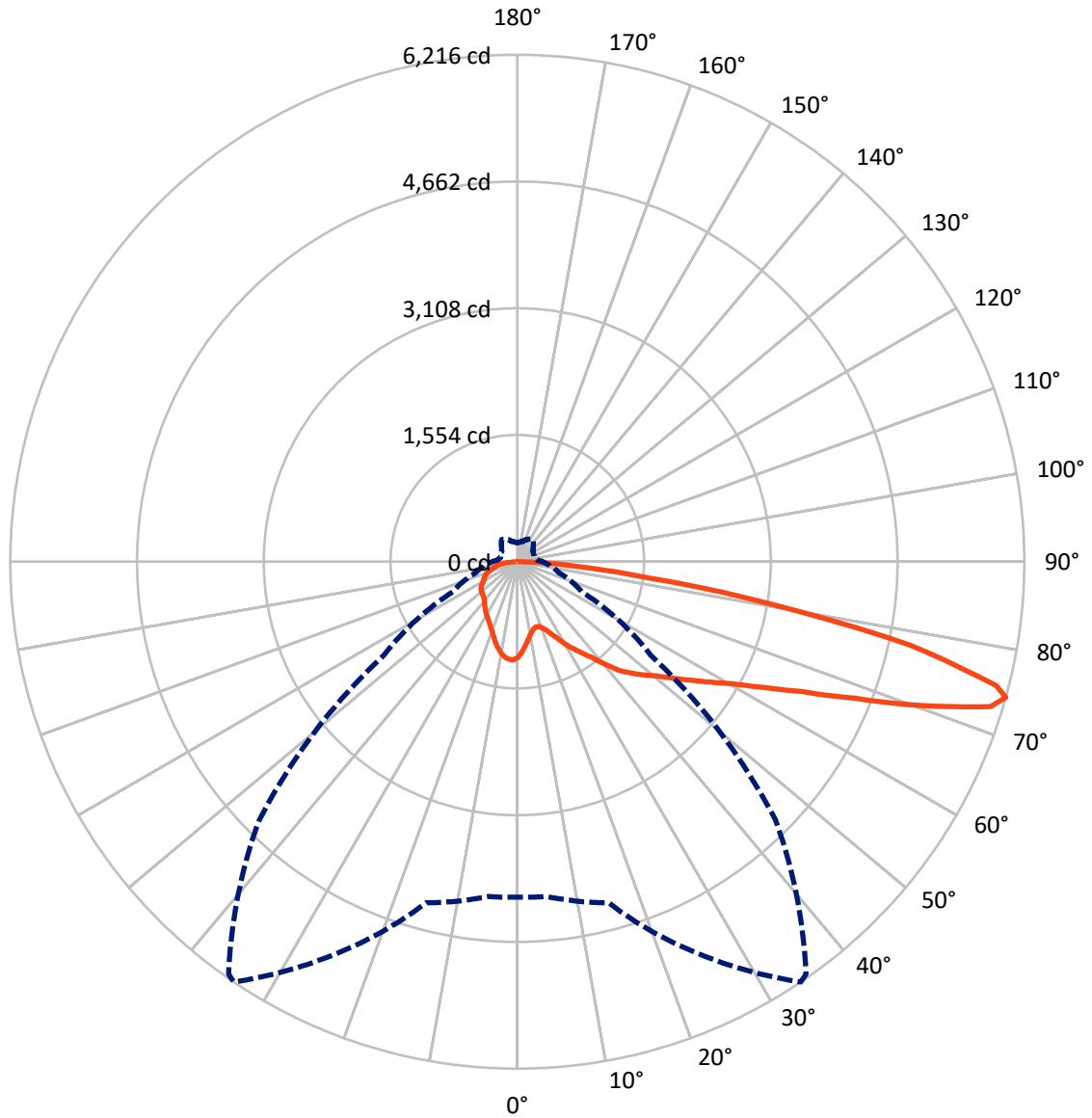
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P451144
CATALOG NUMBER: GALN-SA2A-727-U-T4FT

Luminous Intensity Polar Plot



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



REPORT NUMBER: P451144
 CATALOG NUMBER: GALN-SA2A-727-U-T4FT

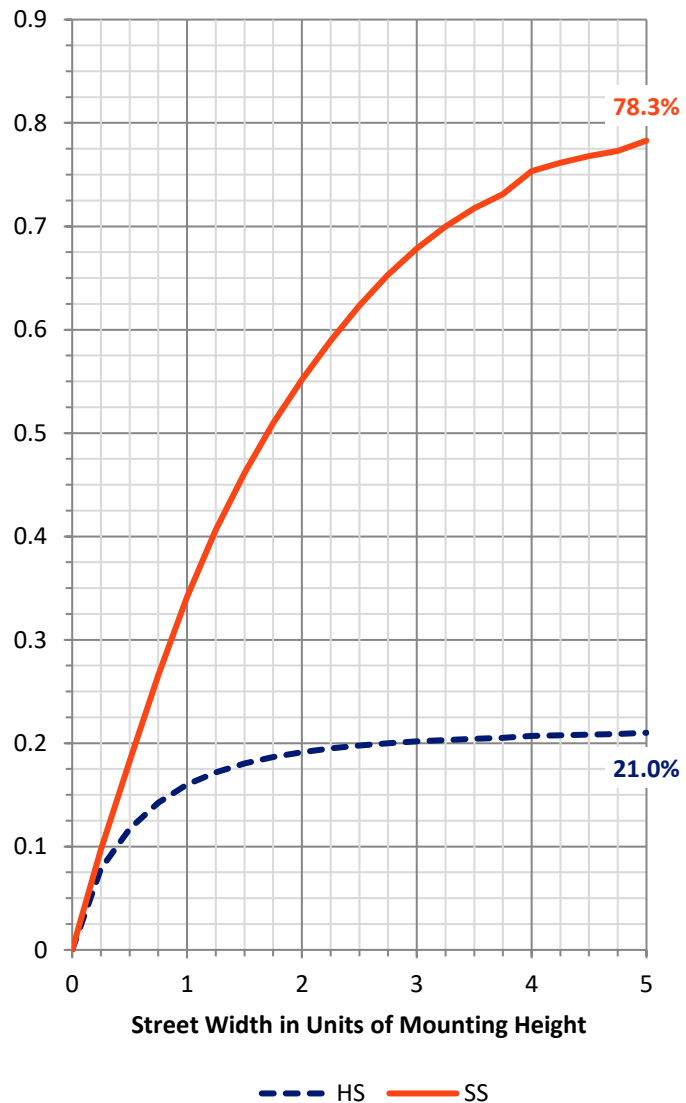
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1633.1	0.0	1633.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	6040.9	0.0	6040.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	7674.0	0.0	7674.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	1.4
10°-20°	291.7	3.8
20°-30°	480.9	6.3
30°-40°	720.4	9.4
40°-50°	1047.2	13.6
50°-60°	1462.8	19.1
60°-70°	1831.3	23.9
70°-80°	1514.3	19.7
80°-90°	218.8	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°	7674.0	100.0
0°-180°	7674.0	100.0



REPORT NUMBER: P451144

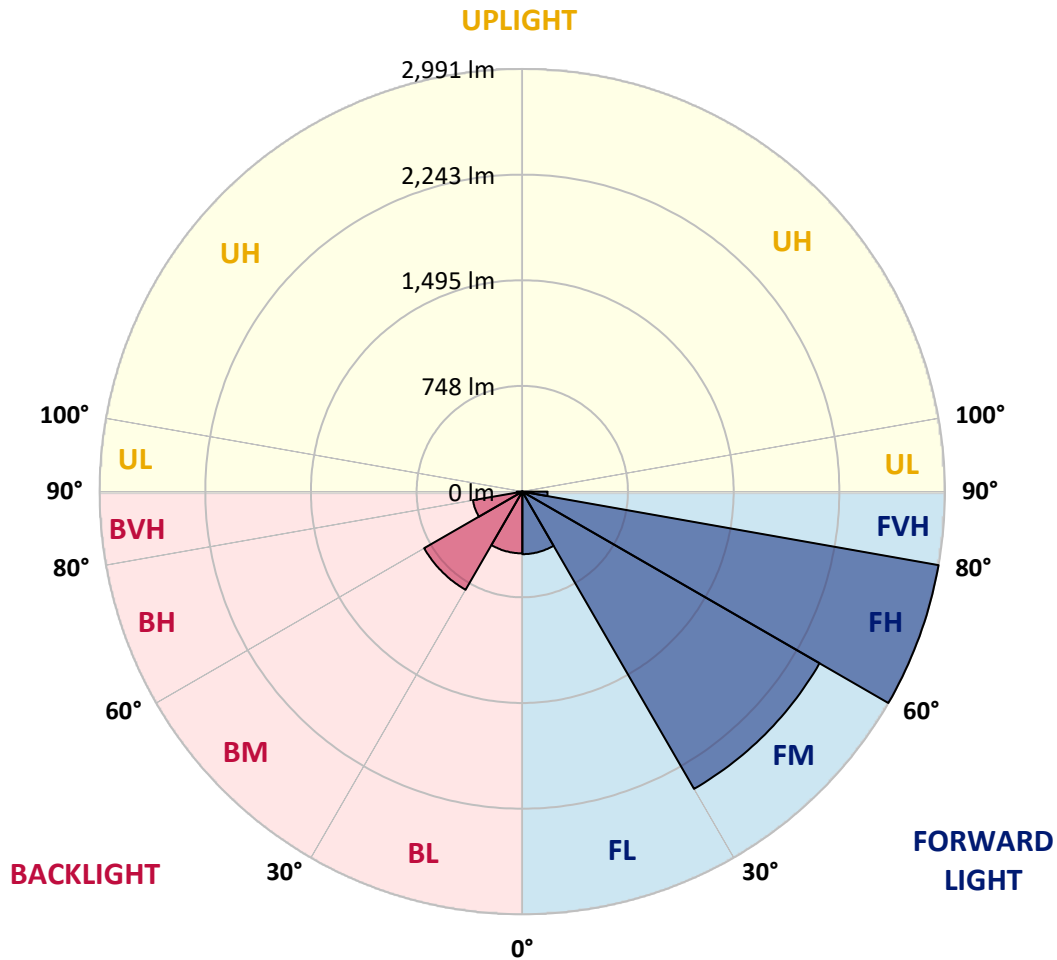
CATALOG NUMBER: GALN-SA2A-727-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	442.4	5.8			
FM (30°-60°)	2428.4	31.6			
FH (60°-80°)	2990.9	39.0			G2/5000
FVH (80°-90°)	179.3	2.3			G2/225
BL (0°-30°)	436.8	5.7	B1/500		
BM (30°-60°)	802.0	10.5	B1/1000		
BH (60°-80°)	354.7	4.6	B1/500		G1/500
BVH (80°-90°)	39.6	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: P451144

CATALOG NUMBER: GALN-SA2A-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7
2.5°	1082.8	1088.3	1091.3	1101.9	1104.5	1107.9	1116.8	1128.7	1144.0	1157.6	1169.5
5°	992.7	1001.2	1006.3	1015.6	1033.9	1035.6	1059.4	1086.6	1117.7	1146.6	1170.4
7.5°	907.2	916.6	920.8	937.8	962.1	965.9	1000.8	1043.7	1095.6	1139.4	1175.9
10°	843.0	847.7	857.1	869.8	898.7	901.3	946.8	1004.2	1071.3	1136.0	1185.3
12.5°	808.2	810.7	812.9	826.5	854.9	858.8	906.4	971.4	1052.2	1138.5	1200.6
15°	813.3	814.1	804.8	807.3	830.3	835.8	883.0	949.7	1040.3	1144.9	1223.5
17.5°	856.2	853.2	830.3	818.4	834.5	837.1	878.3	941.2	1034.8	1156.8	1247.3
20°	923.8	919.6	880.0	853.7	863.0	865.1	893.6	947.6	1040.3	1176.3	1284.3
22.5°	1008.0	1006.3	946.3	914.5	914.0	914.0	928.9	970.6	1056.9	1203.1	1323.0
25°	1125.8	1116.8	1038.6	997.4	985.9	985.0	983.3	1008.4	1078.1	1231.6	1368.9
27.5°	1246.5	1231.2	1161.5	1098.1	1073.5	1070.5	1059.4	1062.0	1105.3	1263.9	1421.2
30°	1354.9	1345.1	1279.7	1209.5	1180.2	1173.4	1142.8	1128.7	1150.8	1322.2	1504.5
32.5°	1437.8	1431.8	1380.8	1317.1	1273.7	1272.4	1227.8	1216.3	1221.8	1392.7	1599.8
35°	1505.0	1507.1	1481.2	1425.9	1376.2	1368.9	1339.2	1324.7	1308.6	1494.8	1719.7
37.5°	1596.8	1601.5	1599.8	1552.2	1491.4	1493.1	1486.3	1462.5	1419.5	1608.7	1852.7
40°	1698.0	1701.4	1701.0	1682.7	1650.8	1652.5	1649.9	1622.7	1558.5	1753.7	2000.7
42.5°	1837.9	1821.7	1779.6	1797.9	1816.6	1824.7	1842.1	1816.2	1728.2	1908.4	2139.7
45°	1994.3	1963.7	1868.5	1877.0	1946.3	1961.6	2057.6	2021.9	1912.3	2086.1	2303.4
47.5°	2092.9	2062.7	1982.4	1980.7	2072.5	2087.4	2257.5	2244.3	2079.8	2277.9	2503.2
50°	2180.9	2176.7	2086.1	2107.8	2197.5	2219.6	2475.1	2462.8	2246.8	2504.0	2720.9
52.5°	2311.5	2277.0	2204.7	2249.4	2368.0	2396.9	2691.1	2655.0	2400.3	2703.8	2932.1
55°	2370.1	2362.0	2357.8	2396.5	2559.3	2580.1	2901.1	2818.2	2531.2	2873.1	3092.8
57.5°	2527.0	2512.1	2554.2	2580.6	2784.6	2816.5	3120.5	2988.7	2646.0	3007.4	3171.1
60°	2730.2	2722.1	2760.8	2808.4	3036.3	3084.8	3370.5	3134.1	2738.3	3075.0	3128.1
62.5°	3033.8	3032.9	3025.7	3127.7	3393.0	3437.6	3657.4	3275.7	2752.7	3024.4	2906.2
65°	3469.1	3453.8	3390.9	3502.3	3836.8	3889.1	3956.3	3354.7	2665.6	2764.6	2447.1
67.5°	3924.4	3923.6	3872.5	4017.1	4474.1	4528.1	4330.0	3337.3	2423.7	2239.6	1737.9
70°	4301.9	4283.6	4348.7	4733.9	5288.2	5350.7	4656.9	3132.0	1930.5	1479.0	1032.6
72.5°	4392.5	4393.3	4528.5	5286.5	6070.1	6079.8	4774.7	2538.5	1292.0	815.8	516.5
74°	4113.6	4120.8	4330.4	5314.2	6215.9	6171.7	4473.7	1995.2	873.6	532.7	372.4
75°	3754.8	3709.3	4012.4	5130.1	6064.5	6016.9	4121.2	1601.1	666.6	425.6	326.1
77.5°	2007.5	2053.8	2521.5	3828.3	4926.9	4872.0	2794.4	767.8	360.1	296.3	234.7
80°	714.6	788.2	1107.9	2003.2	3158.7	3175.7	1333.6	352.0	253.4	218.5	165.8
82.5°	291.6	299.7	475.7	889.0	1604.0	1619.3	544.6	209.2	181.1	150.5	99.1
85°	113.9	117.3	210.4	399.6	684.5	729.1	188.3	110.5	111.4	86.3	50.6
87.5°	38.3	43.4	86.3	133.1	232.5	227.9	54.8	32.7	40.0	37.4	15.7
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: P451144
 CATALOG NUMBER: GALN-SA2A-727-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7
2.5°	1175.5	1183.6	1189.1	1195.1	1200.6	1202.3	1201.0	1204.8	1205.3	1205.7	1206.1
5°	1182.3	1193.3	1204.0	1209.9	1212.5	1210.4	1203.1	1199.3	1195.9	1193.3	1194.2
7.5°	1191.6	1207.4	1217.2	1219.7	1212.9	1203.1	1185.3	1171.2	1162.3	1156.4	1155.9
10°	1206.1	1221.4	1229.5	1222.3	1203.6	1179.7	1151.7	1125.3	1105.3	1099.4	1099.0
12.5°	1224.4	1241.8	1241.4	1220.1	1187.4	1144.9	1099.4	1068.8	1041.6	1028.0	1033.5
15°	1248.2	1261.4	1249.0	1210.8	1158.9	1100.7	1044.6	1002.9	972.3	957.8	958.7
17.5°	1275.8	1287.3	1254.6	1194.2	1119.0	1044.1	979.1	939.5	915.3	904.7	903.8
20°	1310.3	1313.7	1254.6	1165.3	1067.5	978.2	916.2	888.5	874.9	869.4	871.1
22.5°	1347.2	1340.4	1247.8	1124.5	999.9	909.4	867.7	855.4	848.6	847.7	848.6
25°	1388.9	1369.8	1233.7	1069.2	929.3	849.8	825.6	827.7	829.0	829.0	832.0
27.5°	1439.9	1401.7	1210.4	999.5	846.9	794.6	787.8	802.7	809.5	810.7	812.9
30°	1507.1	1436.5	1171.7	912.3	776.7	744.8	756.7	776.7	784.4	789.0	788.2
32.5°	1587.0	1474.8	1119.4	825.2	720.2	710.0	724.4	744.8	753.3	755.9	752.5
35°	1681.0	1518.2	1050.5	743.6	670.9	676.8	693.8	700.2	707.8	707.8	709.5
37.5°	1782.2	1553.0	966.3	668.7	632.6	654.3	666.6	660.7	657.3	653.0	655.1
40°	1885.0	1578.9	857.1	594.8	594.3	630.9	634.3	617.3	603.7	599.4	597.3
42.5°	1974.7	1595.1	758.4	537.4	558.2	607.9	610.5	583.3	561.6	548.8	544.6
45°	2080.6	1613.8	661.9	489.8	524.6	589.7	596.0	559.5	527.6	500.8	494.0
47.5°	2225.6	1656.3	585.8	452.8	500.4	578.2	587.1	539.9	497.8	463.0	457.4
50°	2389.3	1714.6	526.7	427.7	481.7	568.0	579.0	519.9	470.2	431.5	427.3
52.5°	2539.3	1746.0	475.7	405.2	463.4	549.3	568.4	505.5	443.0	400.1	396.2
55°	2621.4	1695.0	425.6	383.0	438.3	525.0	553.5	485.5	416.6	383.5	377.9
57.5°	2632.4	1589.6	380.1	359.2	412.0	495.3	525.9	461.3	399.6	372.0	367.3
60°	2547.0	1432.3	344.8	339.7	385.2	461.7	494.9	440.0	382.2	359.2	354.6
62.5°	2334.4	1261.4	320.1	321.8	358.0	426.4	471.9	419.6	365.6	345.2	341.0
65°	1968.8	1041.2	296.3	303.5	333.7	398.8	451.1	402.6	349.0	334.6	330.8
67.5°	1367.7	751.6	276.8	284.4	310.8	370.7	426.8	384.3	330.3	322.7	316.7
70°	757.2	462.5	253.8	262.7	287.0	339.3	399.6	356.7	303.1	299.7	291.2
72.5°	397.9	294.6	227.9	237.6	254.7	298.9	358.0	326.5	276.3	261.9	250.8
74°	310.8	241.5	210.4	220.6	232.1	275.1	333.3	304.8	257.2	240.2	231.7
75°	270.8	215.1	195.6	208.7	218.9	258.9	314.2	289.5	246.6	230.4	222.8
77.5°	191.3	161.1	159.9	175.6	181.1	227.0	283.1	263.6	219.8	202.8	195.6
80°	134.3	120.7	126.7	136.5	144.1	200.7	262.7	227.9	180.3	160.3	157.7
82.5°	87.6	79.1	90.6	99.5	102.0	147.9	212.1	173.0	131.4	106.7	99.1
85°	40.4	39.5	51.9	50.6	50.2	72.3	125.8	101.2	75.7	56.5	53.1
87.5°	10.2	9.8	12.8	10.6	12.8	11.1	11.5	3.0	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)