

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: P945919

Luminaire Tested: **GALN-SB1D-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-722-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8633 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 79.6
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

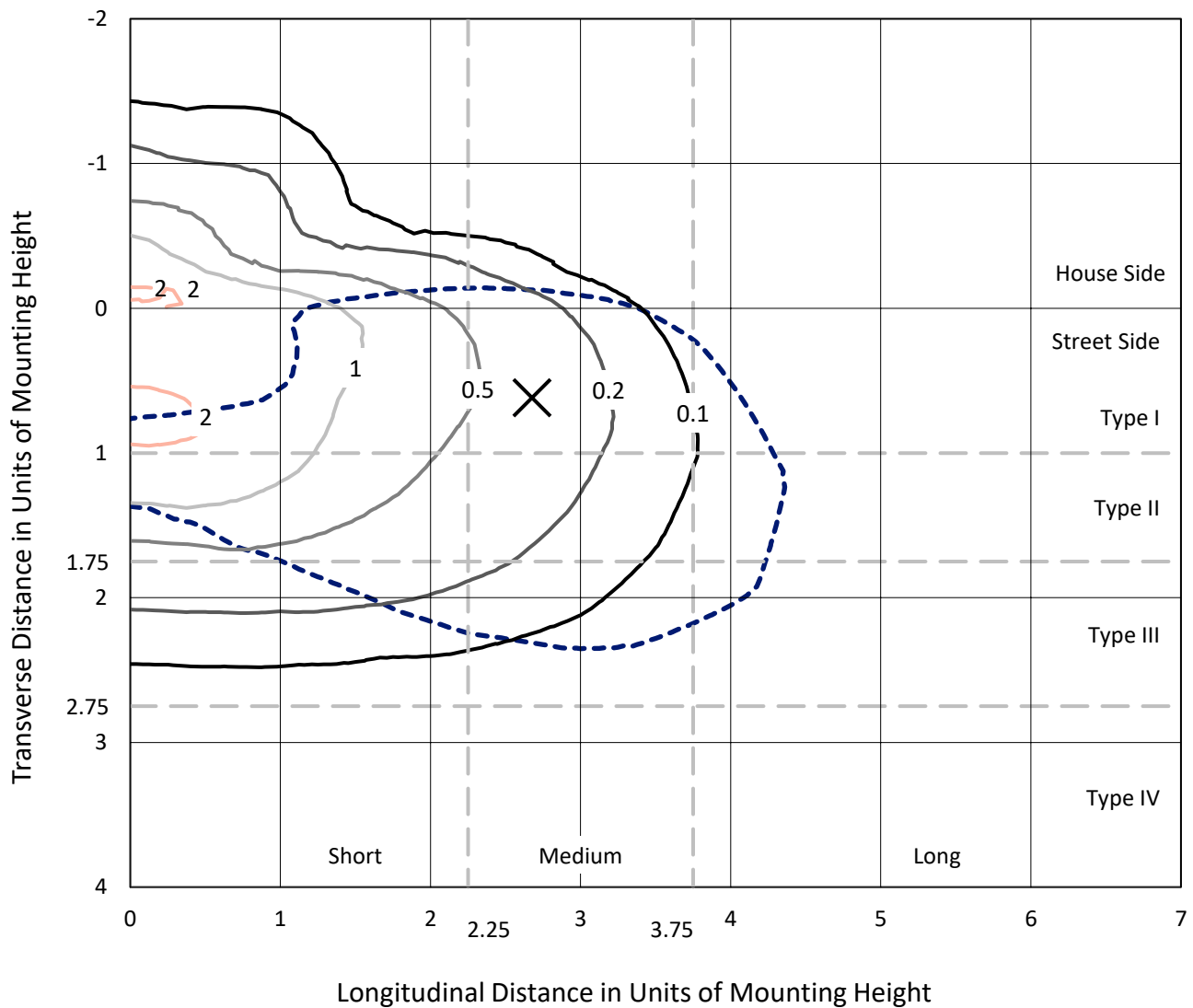


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

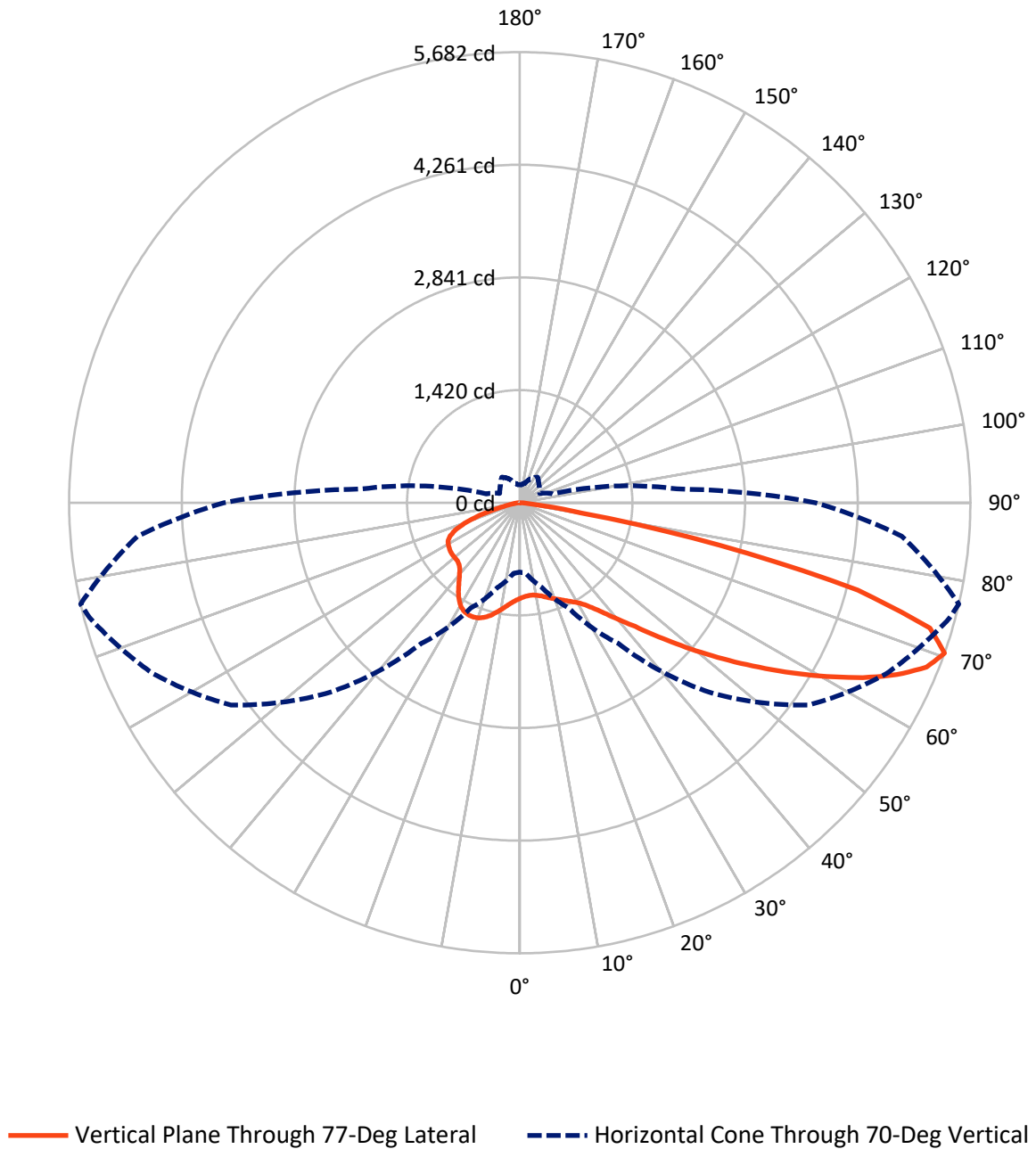


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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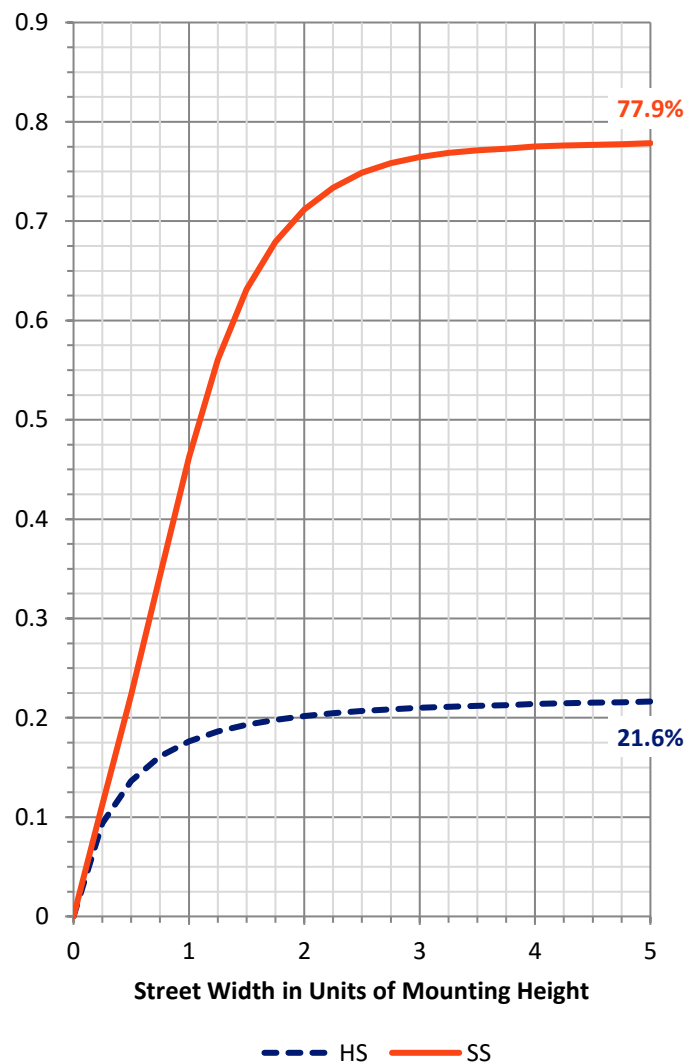
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1890.5	0.0	1890.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6742.5	0.0	6742.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	8633.0	0.0	8633.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	1.3
10°-20°	331.5	3.8
20°-30°	566.9	6.6
30°-40°	911.7	10.6
40°-50°	1423.4	16.5
50°-60°	1901.3	22.0
60°-70°	2026.5	23.5
70°-80°	1247.5	14.5
80°-90°	109.3	1.3
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°	8633.0	100.0
0°-180°	8633.0	100.0

Coefficient of Utilization



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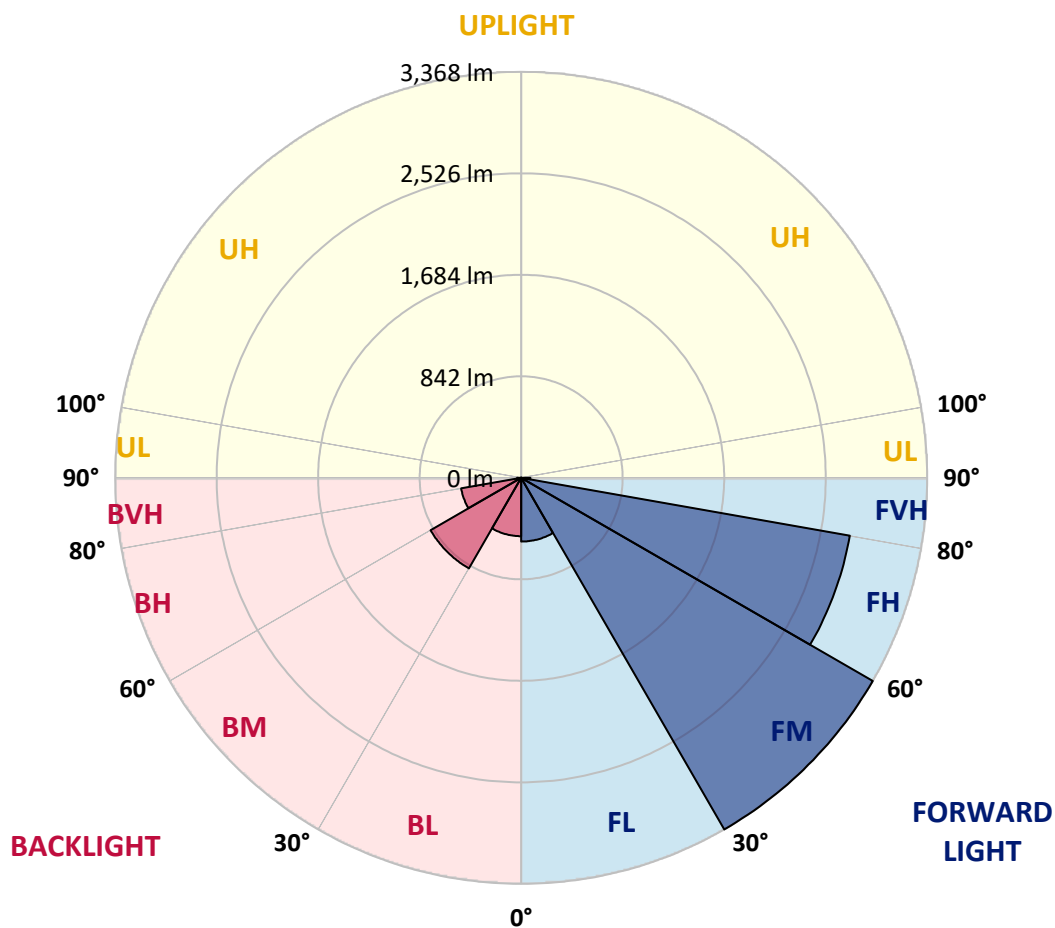
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	528.9	6.1			
FM	(30°-60°)	3368.4	39.0			
FH	(60°-80°)	2768.7	32.1			G2/5000
FVH	(80°-90°)	76.4	0.9			G1/100
BL	(0°-30°)	484.4	5.6	B1/500		
BM	(30°-60°)	868.0	10.1	B1/1000		
BH	(60°-80°)	505.2	5.9	B2/1000		G2/1000
BVH	(80°-90°)	32.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1204.4	1204.4	1204.4	1204.4	1204.4	1204.4	1204.4	1204.4	1204.4	1204.4	1204.4
2.5°	1110.2	1109.8	1115.5	1117.3	1127.9	1135.4	1149.6	1164.6	1184.0	1186.3	1198.2
5°	1046.1	1046.1	1052.7	1059.8	1073.5	1088.5	1110.2	1136.3	1169.9	1175.2	1204.8
7.5°	991.7	995.3	1001.0	1014.7	1030.6	1052.3	1085.4	1122.6	1166.8	1175.2	1223.0
10°	947.9	951.9	959.0	970.0	993.9	1024.0	1067.3	1115.1	1174.3	1187.6	1249.5
12.5°	934.2	938.2	942.2	950.6	972.7	1008.1	1059.8	1118.6	1192.4	1205.7	1285.7
15°	966.1	970.9	967.8	965.6	977.1	1009.4	1063.3	1131.4	1215.0	1234.0	1330.4
17.5°	1039.5	1041.2	1034.2	1013.4	1011.6	1028.9	1080.1	1149.1	1243.3	1264.1	1375.5
20°	1158.0	1154.9	1140.3	1099.2	1075.7	1072.2	1108.9	1175.6	1272.5	1294.6	1424.1
22.5°	1318.9	1315.4	1286.2	1221.2	1169.0	1134.5	1150.4	1210.1	1305.2	1329.9	1471.4
25°	1519.6	1514.8	1471.9	1383.4	1302.5	1217.2	1207.0	1255.7	1345.4	1368.4	1521.0
27.5°	1754.0	1750.0	1703.6	1586.8	1470.1	1330.4	1277.3	1309.2	1387.4	1413.5	1576.7
30°	2006.0	2017.5	1935.2	1809.7	1662.0	1478.1	1372.0	1375.0	1441.8	1465.2	1644.3
32.5°	2302.2	2322.1	2223.1	2063.9	1862.3	1638.6	1491.3	1467.0	1521.0	1540.4	1729.6
35°	2595.8	2618.3	2536.1	2360.1	2128.0	1827.8	1616.0	1572.7	1626.2	1647.4	1842.8
37.5°	2849.6	2879.6	2837.2	2684.2	2412.3	2055.9	1778.7	1696.9	1755.7	1782.3	1994.9
40°	3049.9	3095.8	3092.8	2997.2	2747.4	2332.7	1985.2	1850.3	1916.7	1945.4	2179.3
42.5°	3212.6	3252.4	3286.8	3282.0	3097.2	2647.1	2227.9	2049.7	2100.2	2133.3	2386.7
45°	3324.9	3367.3	3441.6	3521.6	3433.6	2983.5	2506.0	2286.3	2332.3	2382.2	2633.8
47.5°	3425.2	3473.4	3569.8	3696.7	3719.3	3321.3	2810.7	2561.7	2603.7	2655.5	2881.9
50°	3434.1	3475.6	3625.1	3805.0	3922.2	3645.9	3137.8	2870.8	2910.1	2965.4	3147.6
52.5°	3220.5	3286.0	3546.8	3801.9	4015.5	3917.3	3462.8	3192.2	3236.4	3302.8	3422.6
55°	2499.8	2595.8	3317.4	3683.4	3982.3	4092.9	3771.9	3534.0	3590.6	3660.0	3699.4
57.5°	2153.2	2195.2	2633.4	3467.7	3831.1	4138.4	4032.7	3879.3	3970.4	4046.4	3992.1
60°	1935.2	1970.2	2229.3	3132.1	3632.2	4066.3	4234.3	4201.2	4358.6	4449.2	4291.4
62.5°	1701.8	1734.9	1970.6	2615.2	3377.5	3946.5	4361.7	4498.3	4756.5	4855.6	4573.5
65°	1470.1	1498.4	1724.3	2197.4	3053.8	3826.7	4427.6	4755.2	5124.8	5227.4	4807.8
67.5°	1211.9	1235.3	1448.9	1853.9	2660.3	3662.7	4460.3	4957.2	5445.4	5533.3	4923.6
70°	874.5	892.7	1113.3	1466.1	2166.5	3380.6	4447.0	5100.5	5611.6	5681.9	4836.1
72.5°	413.4	429.8	688.9	951.9	1530.2	2831.4	4178.6	4986.9	5442.7	5407.8	4300.2
75°	220.6	234.8	395.7	522.2	808.2	1941.0	3419.5	4295.8	4570.4	4400.6	3178.1
77.5°	149.4	160.5	244.9	313.5	369.2	921.4	2197.9	2974.3	2861.5	2581.2	1591.7
80°	118.5	130.0	200.7	212.2	178.6	332.9	908.2	1376.8	989.1	791.0	452.7
82.5°	91.1	103.9	168.9	153.9	97.3	136.6	264.4	435.5	253.3	192.8	109.7
85°	55.7	69.4	132.6	98.2	54.8	62.3	89.8	121.1	77.4	64.6	39.4
87.5°	28.3	39.8	67.2	35.8	24.8	14.6	23.9	23.9	20.3	17.7	10.2
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°	1204.4	1204.4	1204.4	1204.4	1204.4	1204.4	1204.4	1204.4	1204.4	1204.4	1204.4
2.5°	1208.8	1217.6	1232.7	1246.8	1257.9	1268.5	1279.1	1284.9	1286.6	1293.7	1297.7
5°	1223.0	1239.3	1268.5	1295.9	1313.1	1323.8	1331.3	1335.7	1336.6	1338.8	1342.3
7.5°	1249.0	1275.1	1315.8	1343.2	1356.0	1355.2	1352.1	1341.0	1336.6	1332.6	1333.5
10°	1285.7	1320.2	1370.2	1389.2	1381.2	1360.0	1332.6	1300.3	1285.3	1270.7	1266.3
12.5°	1331.3	1375.0	1424.1	1423.2	1383.9	1329.5	1265.8	1216.3	1184.9	1162.4	1157.1
15°	1386.5	1436.9	1474.5	1444.5	1358.2	1260.5	1167.2	1102.7	1074.4	1049.6	1047.0
17.5°	1443.6	1497.5	1514.8	1437.8	1293.7	1158.4	1052.7	1001.9	974.0	960.8	964.7
20°	1499.3	1552.8	1538.6	1399.8	1195.5	1042.6	948.4	920.5	914.8	917.9	916.6
22.5°	1558.1	1605.8	1543.5	1326.4	1070.4	924.1	872.3	873.2	886.0	895.3	897.5
25°	1618.2	1650.5	1530.7	1220.3	936.0	837.0	824.1	838.3	863.5	881.6	886.5
27.5°	1676.1	1690.3	1502.8	1089.0	820.6	774.6	776.8	806.0	844.0	869.2	875.4
30°	1741.6	1725.7	1449.3	941.3	740.6	721.1	739.7	773.7	811.8	834.3	839.6
32.5°	1815.4	1756.2	1364.4	804.7	684.0	678.2	708.7	730.9	747.7	754.3	757.8
35°	1907.4	1799.1	1255.7	708.7	633.1	646.8	676.0	665.0	658.3	654.8	658.3
37.5°	2026.8	1857.0	1128.3	646.4	592.0	624.3	636.2	601.7	575.7	562.8	565.9
40°	2170.5	1941.9	1005.9	598.2	565.9	604.8	584.1	542.5	509.3	491.2	492.5
42.5°	2330.1	2030.7	902.8	562.0	551.3	588.9	545.6	496.1	442.6	436.8	442.6
45°	2497.6	2122.3	832.5	534.1	544.3	575.2	523.5	443.5	405.4	428.9	441.3
47.5°	2665.2	2206.3	790.1	513.3	540.7	559.7	504.0	414.3	387.3	421.4	437.3
50°	2851.8	2281.4	771.1	498.3	536.8	553.6	474.9	406.8	368.3	390.8	407.7
52.5°	3037.0	2339.8	756.9	483.3	531.0	548.7	460.7	397.9	345.3	346.6	355.9
55°	3221.9	2377.8	741.5	463.4	518.2	538.1	459.4	388.2	328.1	321.9	326.3
57.5°	3419.0	2399.5	722.5	441.3	496.1	511.1	458.1	380.7	322.8	312.6	313.9
60°	3619.8	2431.3	697.7	414.3	466.5	478.8	455.0	378.0	319.7	302.4	303.7
62.5°	3799.7	2442.4	668.1	388.6	428.4	447.0	448.3	375.8	311.3	281.6	281.6
65°	3917.8	2394.6	616.3	359.5	387.3	414.3	435.5	368.3	296.2	266.6	266.6
67.5°	3912.9	2258.4	535.4	321.9	347.5	378.0	416.9	355.5	278.1	248.0	249.4
70°	3730.8	1989.6	432.9	278.1	303.7	339.1	393.1	336.5	256.4	227.7	230.4
72.5°	3199.7	1557.2	314.4	226.8	252.9	298.9	362.1	313.5	234.3	209.6	208.2
75°	2285.9	985.5	213.1	174.2	196.8	253.3	323.6	286.5	214.0	210.5	198.5
77.5°	1167.7	470.9	141.0	127.3	137.1	199.8	271.9	256.0	217.1	173.8	154.7
80°	379.8	173.8	88.9	86.7	91.1	133.1	210.5	210.0	164.5	118.1	104.3
82.5°	121.1	74.7	57.9	55.7	53.5	83.6	146.8	166.2	111.0	74.7	74.3
85°	48.2	44.7	34.0	31.4	22.5	39.4	76.9	110.5	82.7	53.9	55.3
87.5°	17.7	17.7	9.3	6.6	4.9	13.3	20.8	33.2	47.3	27.9	27.4
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)