

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: P527018

Luminaire Tested: **GALN-SA2A-730-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-730-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7025 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

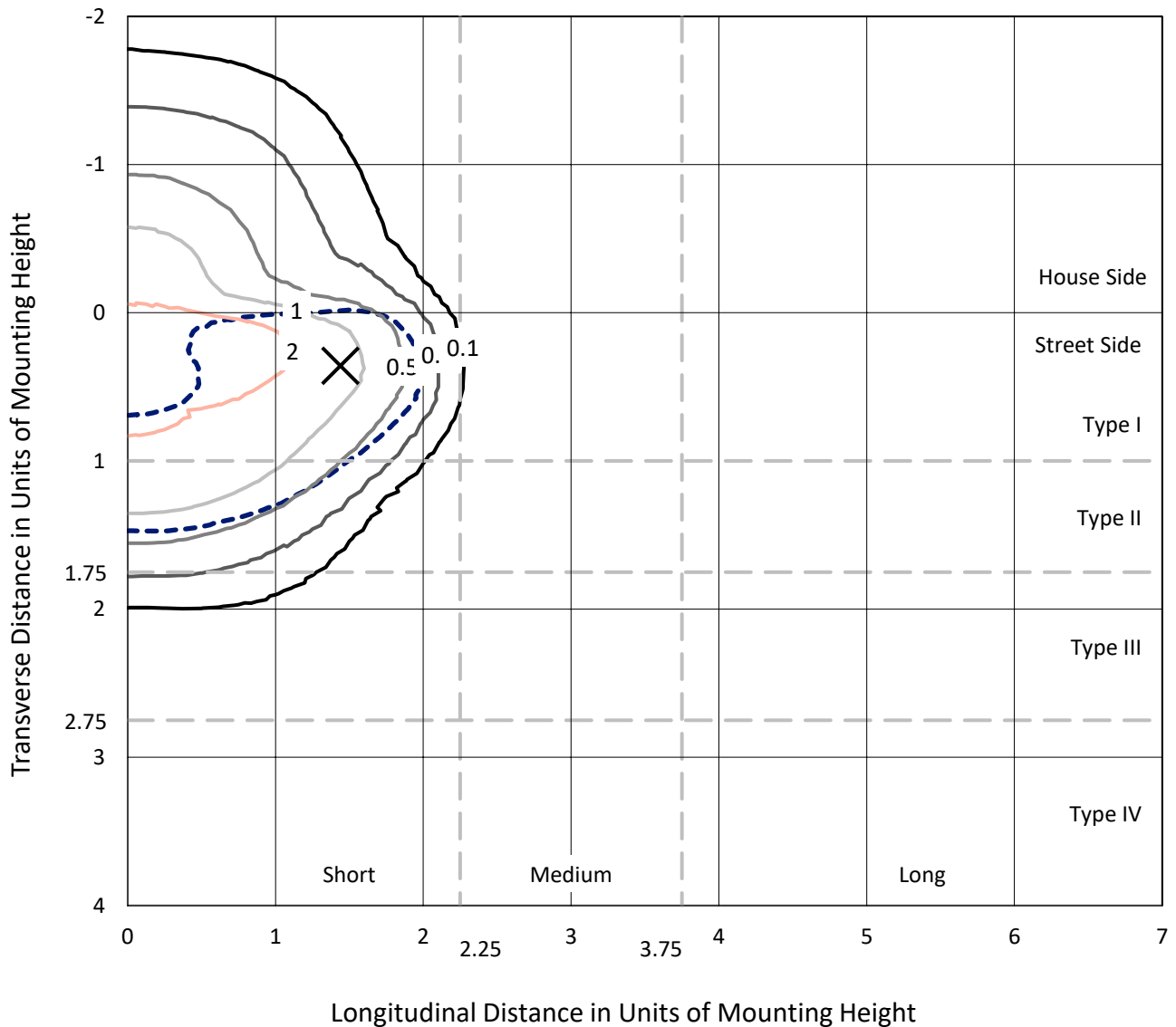
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527018
 CATALOG NUMBER: GALN-SA2A-730-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

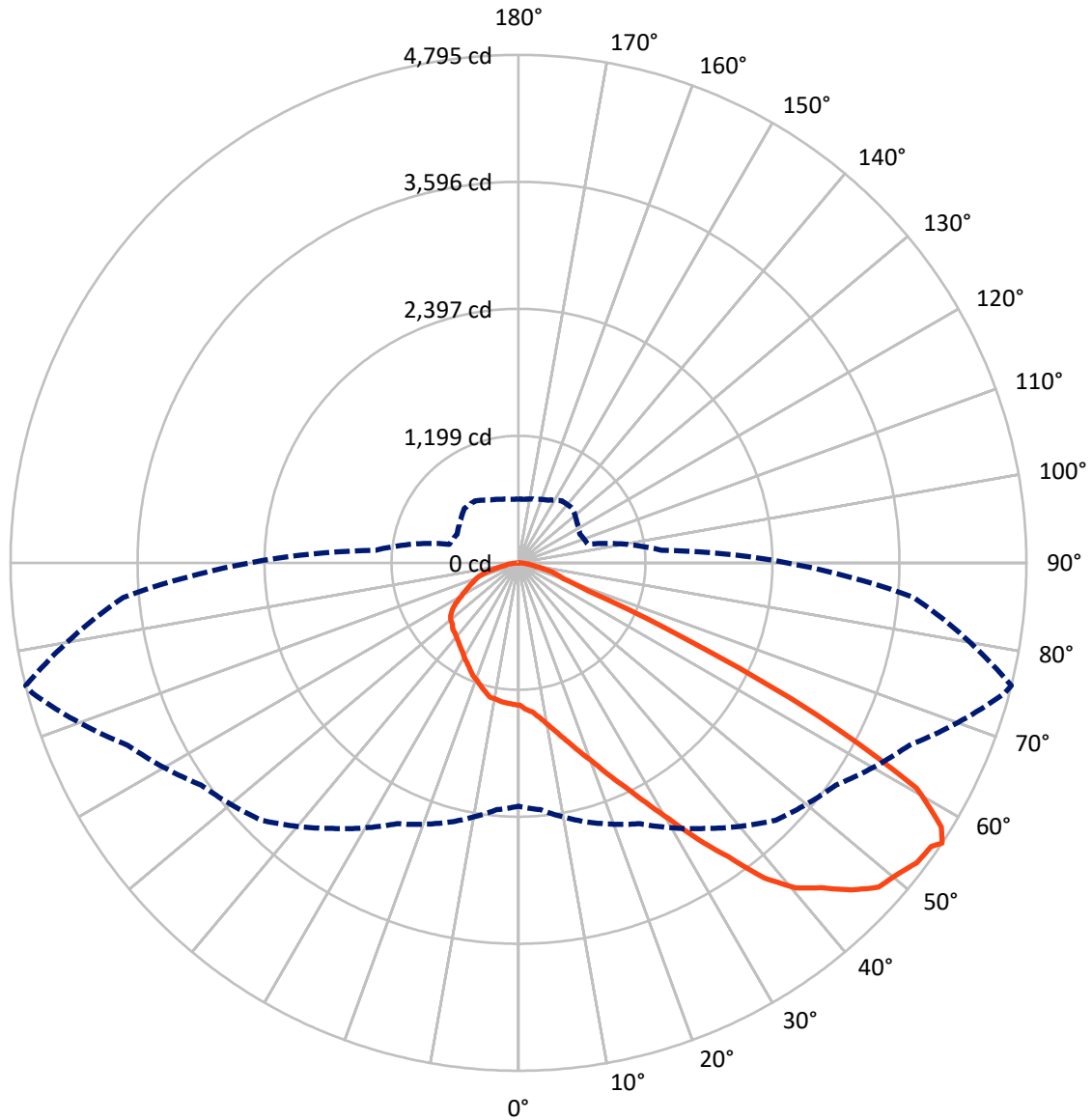
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

REPORT NUMBER: P527018
CATALOG NUMBER: GALN-SA2A-730-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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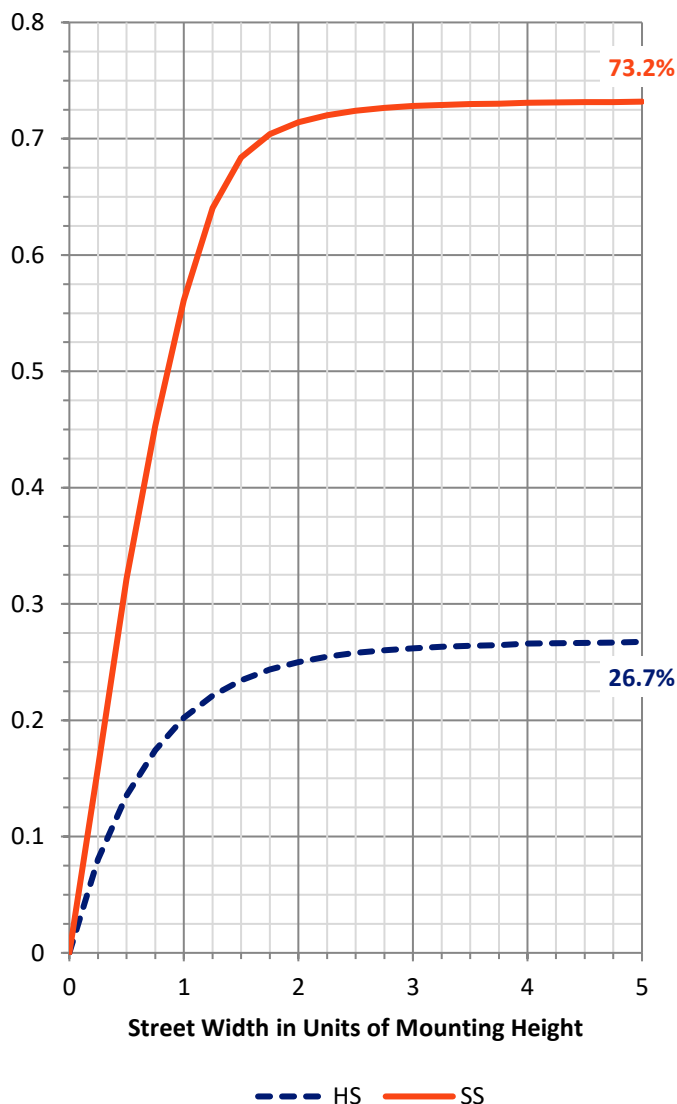
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1888.8	0.0	1888.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	5136.2	0.0	5136.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	7025.0	0.0	7025.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	1.9
10°-20°	418.7	6.0
20°-30°	732.3	10.4
30°-40°	1146.6	16.3
40°-50°	1668.0	23.7
50°-60°	1833.2	26.1
60°-70°	818.3	11.6
70°-80°	236.3	3.4
80°-90°	38.3	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°	7025.0	100.0
0°-180°	7025.0	100.0

Coefficient of Utilization

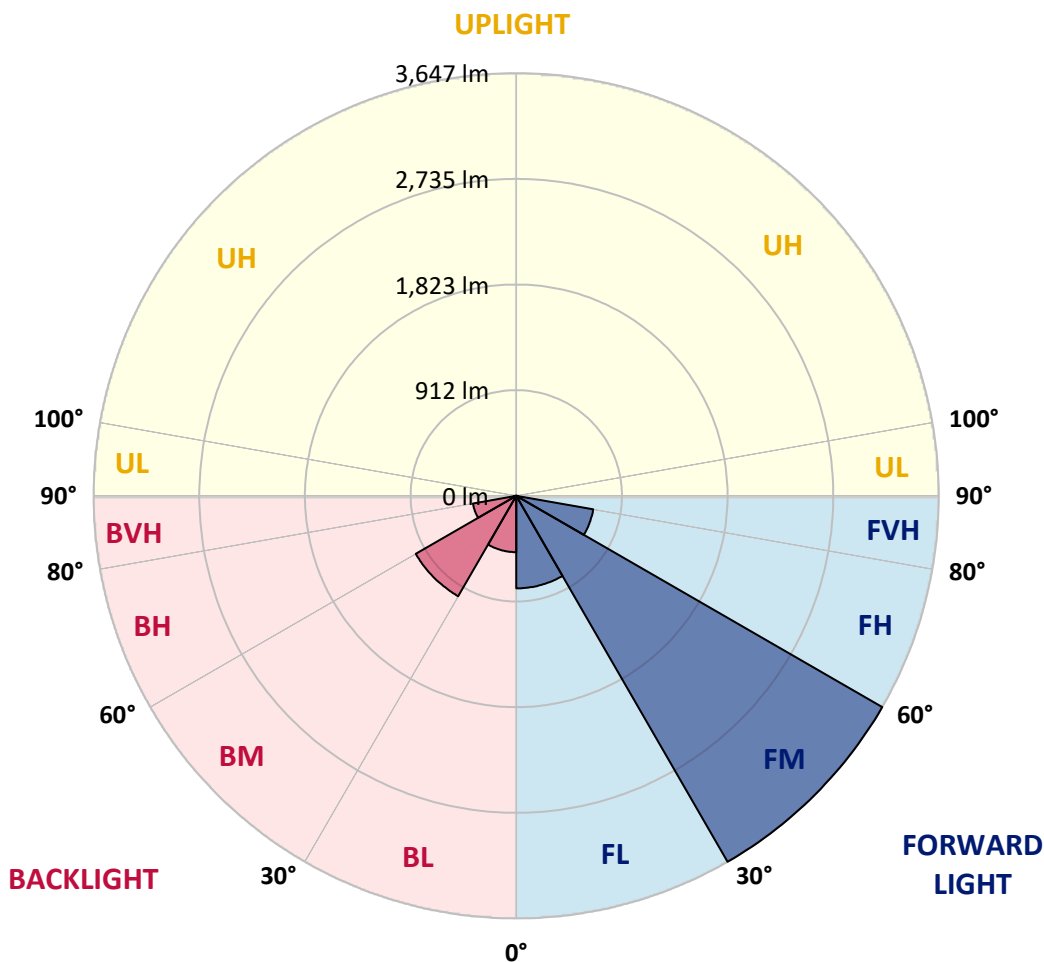


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	798.3	11.4			
FM (30°-60°)	3646.8	51.9			
FH (60°-80°)	674.6	9.6			G1/1800
FVH (80°-90°)	16.5	0.2			G1/100
BL (0°-30°)	486.0	6.9	B1/500		
BM (30°-60°)	1000.9	14.2	B2/2500		
BH (60°-80°)	380.0	5.4	B1/500		G1/500
BVH (80°-90°)	21.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1
2.5°	1480.7	1457.1	1455.2	1448.9	1452.5	1436.1	1418.8	1396.1	1372.4	1386.9	1352.3
5°	1584.6	1552.7	1565.4	1543.6	1546.3	1524.5	1488.9	1462.5	1433.4	1416.1	1391.5
7.5°	1621.0	1623.7	1632.8	1629.2	1611.0	1611.0	1587.3	1540.8	1489.9	1479.8	1438.9
10°	1670.2	1671.1	1661.1	1663.8	1689.3	1677.4	1656.5	1636.5	1570.9	1559.1	1486.2
12.5°	1687.5	1671.1	1687.5	1702.0	1732.1	1748.5	1743.9	1729.4	1659.2	1651.0	1544.5
15°	1690.2	1680.2	1693.8	1726.6	1753.0	1822.2	1856.8	1846.8	1753.9	1754.9	1610.1
17.5°	1677.4	1691.1	1696.6	1724.8	1785.8	1850.5	1950.6	1964.3	1887.8	1876.0	1692.9
20°	1694.8	1684.7	1692.0	1717.5	1798.6	1899.7	2030.8	2120.9	2013.5	2005.3	1778.5
22.5°	1761.2	1747.6	1745.7	1762.1	1820.4	1925.1	2115.5	2277.6	2166.5	2171.0	1885.1
25°	1813.1	1820.4	1814.0	1813.1	1849.6	1963.4	2227.5	2464.3	2374.1	2347.7	2010.8
27.5°	1902.4	1919.7	1906.9	1924.2	1916.0	2020.8	2307.6	2671.0	2598.1	2562.6	2124.6
30°	2026.2	2035.3	2023.5	2023.5	1998.9	2100.9	2380.5	2886.8	2856.8	2808.5	2258.5
32.5°	2189.2	2202.9	2179.2	2165.6	2161.9	2220.2	2511.6	3099.9	3150.9	3109.9	2436.0
35°	2405.1	2396.9	2368.6	2355.9	2306.7	2403.2	2706.5	3344.9	3478.7	3405.9	2650.9
37.5°	2595.4	2582.6	2580.8	2509.8	2521.6	2600.9	2872.2	3530.7	3796.6	3775.6	2877.7
40°	2773.0	2784.8	2803.9	2763.9	2745.7	2833.1	3065.3	3672.7	4043.4	4035.2	3052.6
42.5°	2963.3	2952.4	2986.1	2952.4	2925.1	3048.9	3274.8	3771.1	4260.1	4192.7	3235.6
45°	3239.2	3204.6	3216.5	3219.2	3199.2	3244.7	3361.3	3842.1	4412.2	4404.9	3369.5
47.5°	3469.6	3470.5	3450.5	3435.0	3374.0	3419.6	3457.8	3886.7	4587.0	4575.2	3421.4
50°	3555.2	3543.4	3601.7	3635.4	3639.0	3546.1	3533.4	3911.3	4679.0	4627.1	3473.3
52.5°	3247.4	3258.4	3350.3	3550.7	3666.3	3676.4	3621.7	3962.3	4716.3	4705.4	3515.2
55°	2613.6	2666.4	2817.6	3048.9	3323.0	3624.5	3717.3	4015.1	4736.4	4727.3	3700.9
56°	2297.6	2338.6	2535.3	2716.5	3060.7	3435.9	3657.2	4071.6	4751.9	4794.7	3744.7
57.5°	1849.6	1896.9	2038.1	2243.9	2650.0	3077.1	3491.5	4002.4	4691.8	4708.1	3776.5
60°	1156.5	1161.1	1330.5	1466.2	1752.1	2169.2	2664.6	3482.4	4342.1	4318.4	3392.2
62.5°	758.6	759.5	913.4	1024.5	1154.7	1250.3	1568.2	2309.4	3203.7	3161.8	2415.1
65°	532.7	544.6	663.9	812.3	865.1	815.0	805.0	1217.6	1789.5	1729.4	1297.7
67.5°	389.8	390.7	496.3	655.7	732.2	620.2	503.6	594.7	708.5	706.7	601.0
70°	257.7	268.6	349.7	489.9	577.4	498.1	411.6	425.3	450.8	450.8	447.1
72.5°	150.3	160.3	214.0	310.5	324.2	311.4	326.0	364.3	380.7	379.7	375.2
75°	85.6	90.2	102.0	129.3	161.2	190.3	239.5	275.9	292.3	302.3	290.5
77.5°	50.1	52.8	60.1	73.8	83.8	102.9	130.2	155.7	177.6	174.8	176.7
80°	26.4	26.4	33.7	43.7	58.3	72.9	86.5	101.1	112.9	115.7	118.4
82.5°	15.5	16.4	21.9	31.9	41.9	51.9	66.5	76.5	87.4	88.3	90.2
85°	8.2	9.1	13.7	20.9	28.2	31.9	32.8	31.0	33.7	31.9	36.4
87.5°	2.7	2.7	4.6	3.6	3.6	4.6	5.5	5.5	7.3	7.3	7.3
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°	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1
2.5°	1351.4	1351.4	1335.9	1306.8	1302.3	1290.4	1279.5	1278.6	1270.4	1263.1	1259.5
5°	1376.9	1348.7	1325.9	1299.5	1268.6	1254.0	1237.6	1219.4	1212.1	1219.4	1218.5
7.5°	1406.1	1382.4	1314.1	1264.9	1229.4	1214.8	1196.6	1177.5	1179.3	1179.3	1166.6
10°	1434.3	1402.4	1293.1	1230.3	1178.4	1167.5	1157.5	1164.7	1173.8	1175.7	1167.5
12.5°	1481.7	1409.7	1283.1	1195.7	1162.9	1139.2	1145.6	1165.7	1184.8	1179.3	1185.7
15°	1517.2	1416.1	1237.6	1160.2	1119.2	1130.1	1152.9	1166.6	1198.4	1194.8	1201.2
17.5°	1551.8	1419.7	1193.0	1112.8	1095.5	1125.6	1142.9	1182.0	1192.1	1213.9	1222.1
20°	1622.8	1427.0	1147.4	1083.7	1078.2	1112.8	1142.9	1161.1	1183.0	1202.1	1202.1
22.5°	1659.2	1423.4	1117.4	1045.4	1062.7	1084.6	1111.9	1142.9	1142.9	1161.1	1162.0
25°	1704.8	1408.8	1070.0	1027.2	1040.0	1060.9	1091.9	1081.0	1092.8	1092.8	1107.4
27.5°	1756.7	1377.8	1029.1	994.4	1019.9	1042.7	1047.3	1040.0	1026.3	1024.5	1019.0
30°	1798.6	1339.6	999.0	983.5	1004.5	1017.2	1002.6	987.2	963.5	961.7	948.9
32.5°	1855.9	1292.2	961.7	956.2	979.9	980.8	976.2	952.6	918.0	903.4	888.8
35°	1952.5	1264.9	933.4	941.6	948.9	946.2	938.0	912.5	877.9	871.5	866.0
37.5°	2023.5	1244.9	904.3	914.3	920.7	924.3	899.7	871.5	872.4	859.7	856.0
40°	2103.6	1232.1	880.6	885.2	886.1	897.9	867.9	854.2	860.6	852.4	857.8
42.5°	2206.5	1235.8	856.0	852.4	869.7	865.1	850.6	832.3	836.0	811.4	815.0
45°	2261.2	1260.4	841.5	825.1	844.2	843.3	824.2	806.9	785.0	737.6	739.5
47.5°	2297.6	1266.7	806.9	795.9	816.0	827.8	805.9	765.9	734.9	701.2	693.0
50°	2334.9	1278.6	790.5	767.7	775.9	804.1	776.8	738.6	708.5	678.4	683.0
52.5°	2367.7	1301.3	758.6	724.9	739.5	770.4	755.9	709.4	676.6	652.0	644.8
55°	2513.4	1352.3	704.9	661.1	695.7	734.9	726.7	670.3	634.7	622.0	620.2
56°	2536.2	1354.2	676.6	639.3	671.2	723.1	713.1	652.9	621.1	601.0	602.0
57.5°	2539.8	1332.3	636.6	619.3	646.6	705.8	693.0	639.3	595.6	577.4	571.9
60°	2234.8	1040.0	586.5	575.5	607.4	652.9	648.4	602.0	552.8	531.8	541.8
62.5°	1523.5	762.2	547.3	545.5	561.9	606.5	594.7	552.8	511.8	498.1	491.8
65°	887.0	578.3	509.1	501.8	515.4	539.1	547.3	503.6	460.8	451.7	449.0
67.5°	523.6	478.1	459.9	448.0	443.5	458.1	464.4	438.9	396.1	383.4	394.3
70°	438.0	425.3	426.2	406.2	395.2	385.2	379.7	357.0	321.5	305.1	300.5
72.5°	377.9	372.5	368.8	350.6	340.6	317.8	294.1	271.4	245.0	231.3	232.2
75°	288.7	286.9	288.7	279.6	262.3	244.1	222.2	193.1	173.0	155.7	159.4
77.5°	172.1	177.6	180.3	176.7	169.4	153.0	139.3	120.2	101.1	87.4	85.6
80°	118.4	122.9	127.5	122.9	115.7	103.8	89.2	74.7	61.0	53.7	51.9
82.5°	90.2	94.7	97.4	92.9	83.8	71.0	61.0	51.0	40.1	32.8	31.0
85°	32.8	37.3	36.4	43.7	47.4	45.5	39.2	30.1	22.8	16.4	15.5
87.5°	9.1	8.2	9.1	9.1	9.1	8.2	7.3	7.3	7.3	4.6	3.6
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)