

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: P527954

Luminaire Tested: **GALN-SA3A-730-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527954
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-SA3A-730-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 10429 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

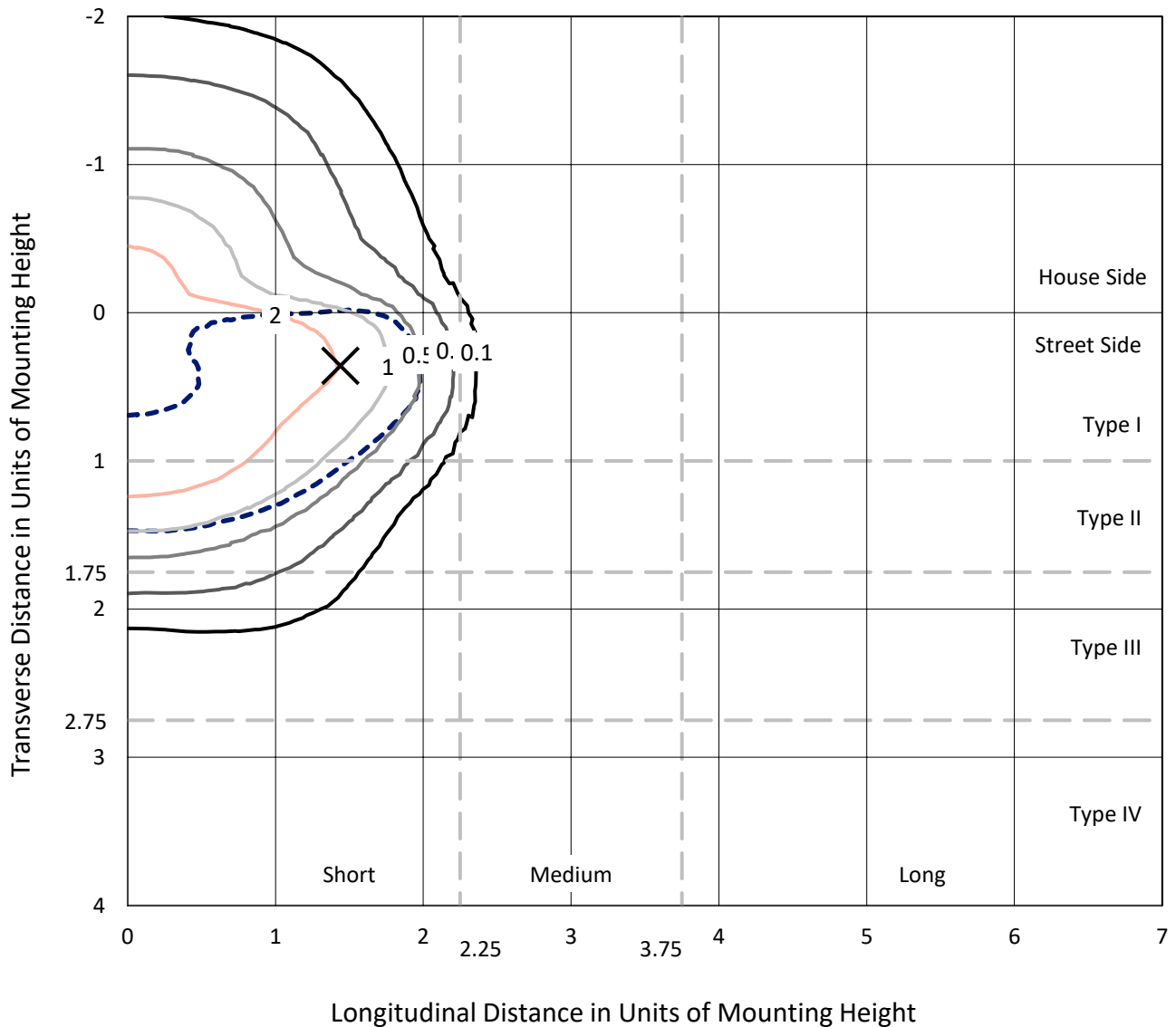
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

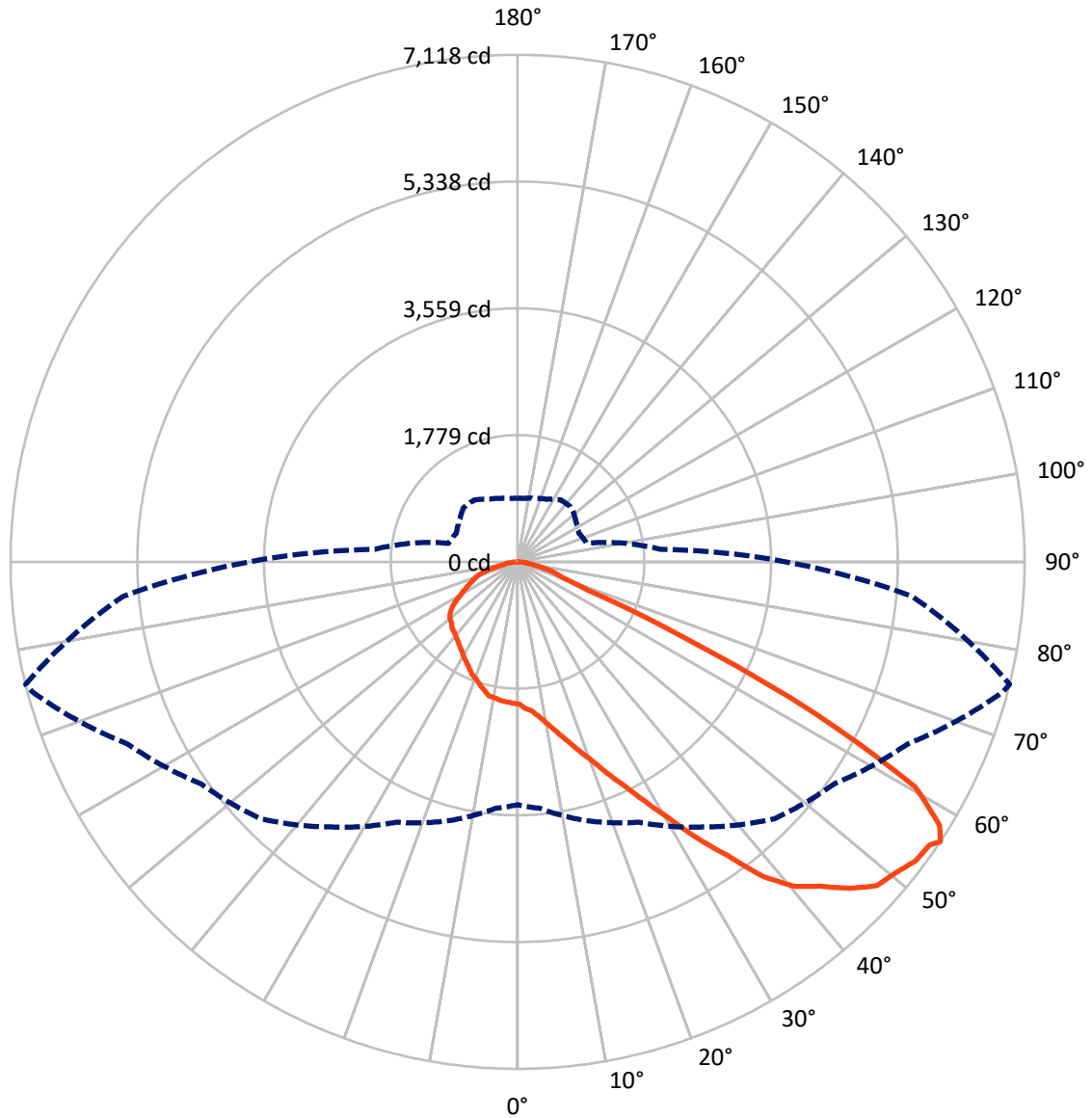
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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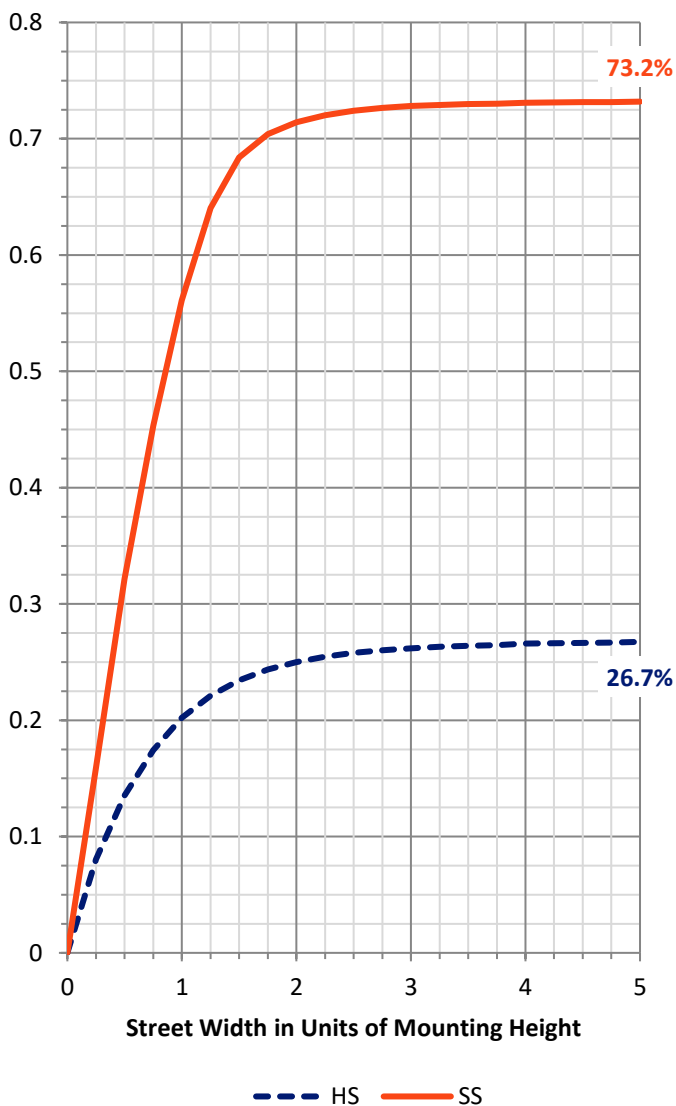
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2804.0	0.0	2804.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7625.0	0.0	7625.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	10429.0	0.0	10429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	1.9
10°-20°	621.6	6.0
20°-30°	1087.2	10.4
30°-40°	1702.2	16.3
40°-50°	2476.2	23.7
50°-60°	2721.5	26.1
60°-70°	1214.7	11.6
70°-80°	350.9	3.4
80°-90°	56.9	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°	10429.0	100.0
0°-180°	10429.0	100.0

Coefficient of Utilization

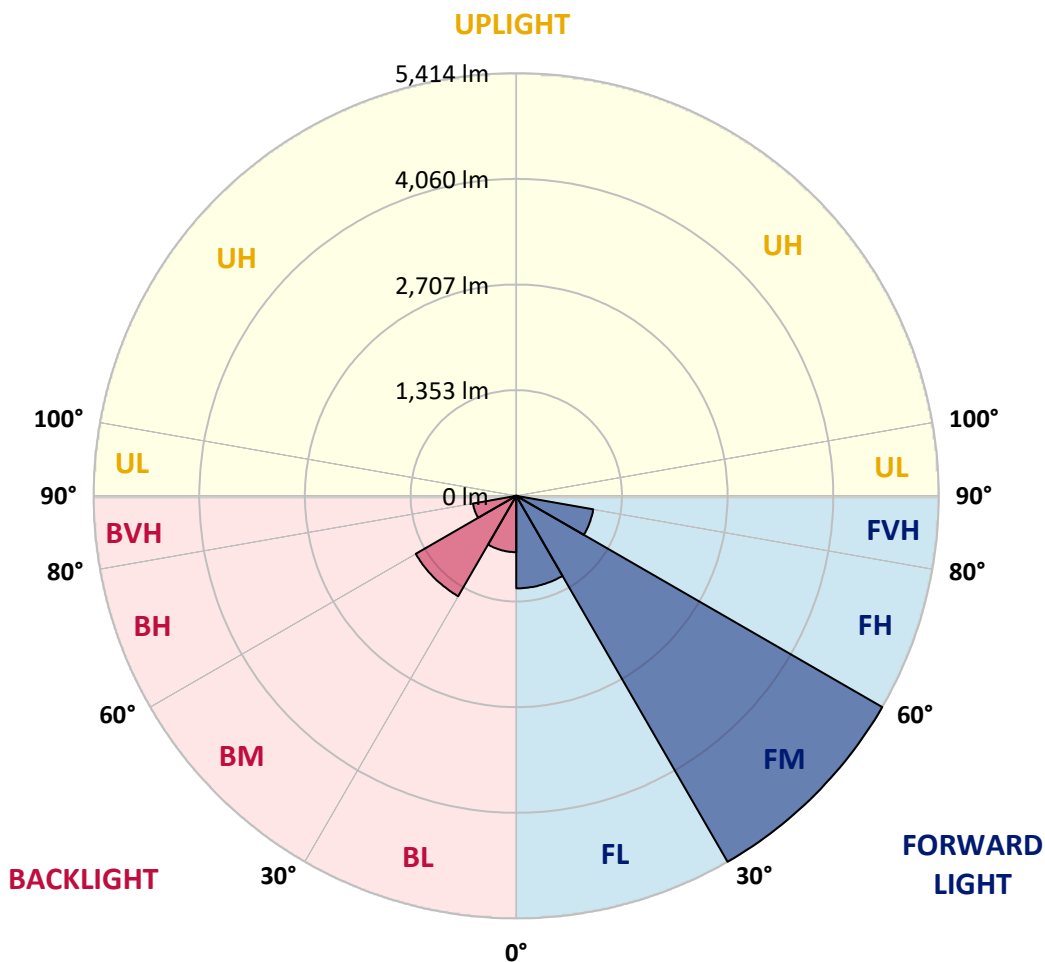


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1185.1	11.4			
FM (30°-60°)	5413.9	51.9			
FH (60°-80°)	1001.4	9.6			G1/1800
FVH (80°-90°)	24.5	0.2			G1/100
BL (0°-30°)	721.5	6.9	B2/1000		
BM (30°-60°)	1485.9	14.2	B2/2500		
BH (60°-80°)	564.2	5.4	B2/1000		G2/1000
BVH (80°-90°)	32.4	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5
2.5°	2198.2	2163.1	2160.4	2150.9	2156.3	2132.0	2106.3	2072.5	2037.4	2059.0	2007.6
5°	2352.4	2305.0	2324.0	2291.5	2295.6	2263.1	2210.4	2171.2	2127.9	2102.3	2065.8
7.5°	2406.4	2410.5	2424.0	2418.6	2391.6	2391.6	2356.4	2287.5	2211.8	2196.9	2136.1
10°	2479.4	2480.8	2465.9	2470.0	2507.8	2490.3	2459.2	2429.4	2332.1	2314.5	2206.4
12.5°	2505.1	2480.8	2505.1	2526.8	2571.4	2595.7	2589.0	2567.3	2463.2	2451.1	2292.9
15°	2509.2	2494.3	2514.6	2563.3	2602.5	2705.2	2756.6	2741.7	2603.8	2605.2	2390.2
17.5°	2490.3	2510.5	2518.7	2560.6	2651.1	2747.1	2895.8	2916.1	2802.6	2785.0	2513.2
20°	2516.0	2501.1	2511.9	2549.7	2670.1	2820.1	3014.8	3148.7	2989.1	2977.0	2640.3
22.5°	2614.6	2594.4	2591.7	2616.0	2702.5	2858.0	3140.5	3381.2	3216.3	3223.0	2798.5
25°	2691.7	2702.5	2693.1	2691.7	2745.8	2914.8	3306.8	3658.3	3524.5	3485.3	2985.1
27.5°	2824.2	2849.9	2831.0	2856.6	2844.5	2999.9	3425.8	3965.2	3857.1	3804.3	3154.1
30°	3008.1	3021.6	3004.0	3004.0	2967.5	3118.9	3534.0	4285.6	4241.0	4169.4	3352.8
32.5°	3250.1	3270.3	3235.2	3214.9	3209.5	3296.0	3728.6	4602.0	4677.7	4616.9	3616.4
35°	3570.5	3558.3	3516.4	3497.5	3424.4	3567.8	4017.9	4965.7	5164.4	5056.2	3935.5
37.5°	3853.0	3834.1	3831.4	3725.9	3743.5	3861.1	4264.0	5241.4	5636.2	5605.1	4272.1
40°	4116.6	4134.2	4162.6	4103.1	4076.1	4205.9	4550.6	5452.4	6002.6	5990.4	4531.7
42.5°	4399.2	4383.0	4433.0	4383.0	4342.4	4526.3	4861.6	5598.4	6324.3	6224.3	4803.4
45°	4808.8	4757.5	4775.0	4779.1	4749.3	4816.9	4990.0	5703.8	6550.1	6539.3	5002.2
47.5°	5150.9	5152.2	5122.5	5099.5	5008.9	5076.5	5133.3	5770.1	6809.7	6792.1	5079.2
50°	5278.0	5260.4	5346.9	5396.9	5402.3	5264.4	5245.5	5806.6	6946.2	6869.2	5156.3
52.5°	4821.0	4837.2	4973.8	5271.2	5442.9	5457.8	5376.6	5882.3	7001.7	6985.4	5218.5
55°	3880.1	3958.5	4182.9	4526.3	4933.2	5380.7	5518.6	5960.7	7031.4	7017.9	5494.3
56°	3410.9	3471.8	3763.8	4032.8	4543.9	5100.8	5429.4	6044.5	7054.4	7117.9	5559.2
57.5°	2745.8	2816.1	3025.6	3331.2	3934.1	4568.2	5183.3	5941.8	6965.2	6989.5	5606.5
60°	1717.0	1723.7	1975.2	2176.6	2601.1	3220.3	3955.8	5169.8	6446.0	6410.9	5036.0
62.5°	1126.2	1127.5	1356.0	1520.9	1714.3	1856.2	2328.0	3428.5	4756.1	4693.9	3585.3
65°	790.9	808.5	985.6	1205.9	1284.3	1210.0	1195.1	1807.5	2656.6	2567.3	1926.5
67.5°	578.6	580.0	736.8	973.4	1087.0	920.7	747.6	882.8	1051.8	1049.1	892.3
70°	382.6	398.8	519.1	727.3	857.1	739.5	611.1	631.4	669.2	669.2	663.8
72.5°	223.1	237.9	317.7	461.0	481.3	462.4	484.0	540.8	565.1	563.8	557.0
75°	127.1	133.8	151.4	192.0	239.3	282.6	355.6	409.6	434.0	448.8	431.3
77.5°	74.4	78.4	89.2	109.5	124.4	152.8	193.3	231.2	263.6	259.6	262.3
80°	39.2	39.2	50.0	64.9	86.5	108.2	128.4	150.1	167.6	171.7	175.8
82.5°	23.0	24.3	32.4	47.3	62.2	77.1	98.7	113.6	129.8	131.1	133.8
85°	12.2	13.5	20.3	31.1	41.9	47.3	48.7	46.0	50.0	47.3	54.1
87.5°	4.1	4.1	6.8	5.4	5.4	6.8	8.1	8.1	10.8	10.8	10.8
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°	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5
2.5°	2006.3	2006.3	1983.3	1940.0	1933.3	1915.7	1899.5	1898.1	1885.9	1875.1	1869.7
5°	2044.1	2002.2	1968.4	1929.2	1883.2	1861.6	1837.3	1810.2	1799.4	1810.2	1808.9
7.5°	2087.4	2052.2	1950.8	1877.8	1825.1	1803.5	1776.4	1748.1	1750.8	1750.8	1731.8
10°	2129.3	2082.0	1919.7	1826.5	1749.4	1733.2	1718.3	1729.1	1742.6	1745.3	1733.2
12.5°	2199.6	2092.8	1904.9	1775.1	1726.4	1691.3	1700.7	1730.5	1758.9	1750.8	1760.2
15°	2252.3	2102.3	1837.3	1722.4	1661.5	1677.8	1711.5	1731.8	1779.1	1773.7	1783.2
17.5°	2303.7	2107.7	1771.0	1652.1	1626.4	1671.0	1696.7	1754.8	1769.7	1802.1	1814.3
20°	2409.1	2118.5	1703.4	1608.8	1600.7	1652.1	1696.7	1723.7	1756.2	1784.6	1784.6
22.5°	2463.2	2113.1	1658.8	1552.0	1577.7	1610.2	1650.7	1696.7	1696.7	1723.7	1725.1
25°	2530.8	2091.4	1588.5	1525.0	1543.9	1575.0	1621.0	1604.7	1622.3	1622.3	1644.0
27.5°	2607.9	2045.5	1527.7	1476.3	1514.2	1548.0	1554.7	1543.9	1523.6	1520.9	1512.8
30°	2670.1	1988.7	1483.1	1460.1	1491.2	1510.1	1488.5	1465.5	1430.3	1427.6	1408.7
32.5°	2755.2	1918.4	1427.6	1419.5	1454.7	1456.0	1449.3	1414.1	1362.7	1341.1	1319.5
35°	2898.5	1877.8	1385.7	1397.9	1408.7	1404.7	1392.5	1354.6	1303.3	1293.8	1285.7
37.5°	3004.0	1848.1	1342.5	1357.3	1366.8	1372.2	1335.7	1293.8	1295.2	1276.2	1270.8
40°	3123.0	1829.2	1307.3	1314.1	1315.4	1333.0	1288.4	1268.1	1277.6	1265.4	1273.5
42.5°	3275.7	1834.6	1270.8	1265.4	1291.1	1284.3	1262.7	1235.7	1241.1	1204.6	1210.0
45°	3356.9	1871.1	1249.2	1224.9	1253.2	1251.9	1223.5	1197.8	1165.4	1095.1	1097.8
47.5°	3410.9	1880.5	1197.8	1181.6	1211.3	1228.9	1196.5	1137.0	1091.0	1041.0	1028.8
50°	3466.4	1898.1	1173.5	1139.7	1151.8	1193.8	1153.2	1096.4	1051.8	1007.2	1014.0
52.5°	3515.0	1931.9	1126.2	1076.1	1097.8	1143.7	1122.1	1053.2	1004.5	968.0	957.2
55°	3731.3	2007.6	1046.4	981.5	1032.9	1091.0	1078.8	995.0	942.3	923.4	920.7
56°	3765.1	2010.3	1004.5	949.1	996.4	1073.4	1058.6	969.3	922.0	892.3	893.6
57.5°	3770.5	1977.9	945.0	919.3	959.9	1047.7	1028.8	949.1	884.2	857.1	849.0
60°	3317.6	1543.9	870.6	854.4	901.7	969.3	962.6	893.6	820.6	789.5	804.4
62.5°	2261.8	1131.6	812.5	809.8	834.1	900.4	882.8	820.6	759.8	739.5	730.0
65°	1316.8	858.5	755.7	744.9	765.2	800.3	812.5	747.6	684.1	670.6	666.5
67.5°	777.4	709.8	682.7	665.2	658.4	680.0	689.5	651.6	588.1	569.2	585.4
70°	650.3	631.4	632.7	603.0	586.7	571.9	563.8	530.0	477.2	452.9	446.1
72.5°	561.1	552.9	547.5	520.5	505.6	471.8	436.7	402.9	363.7	343.4	344.7
75°	428.6	425.9	428.6	415.0	389.4	362.3	329.9	286.6	256.9	231.2	236.6
77.5°	255.5	263.6	267.7	262.3	251.5	227.1	206.8	178.5	150.1	129.8	127.1
80°	175.8	182.5	189.3	182.5	171.7	154.1	132.5	110.9	90.6	79.8	77.1
82.5°	133.8	140.6	144.7	137.9	124.4	105.5	90.6	75.7	59.5	48.7	46.0
85°	48.7	55.4	54.1	64.9	70.3	67.6	58.1	44.6	33.8	24.3	23.0
87.5°	13.5	12.2	13.5	13.5	13.5	12.2	10.8	10.8	10.8	6.8	5.4
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)