

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: P650754

Luminaire Tested: **GALN-SA2C-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650754
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-SA2C-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA 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: 9973.4 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

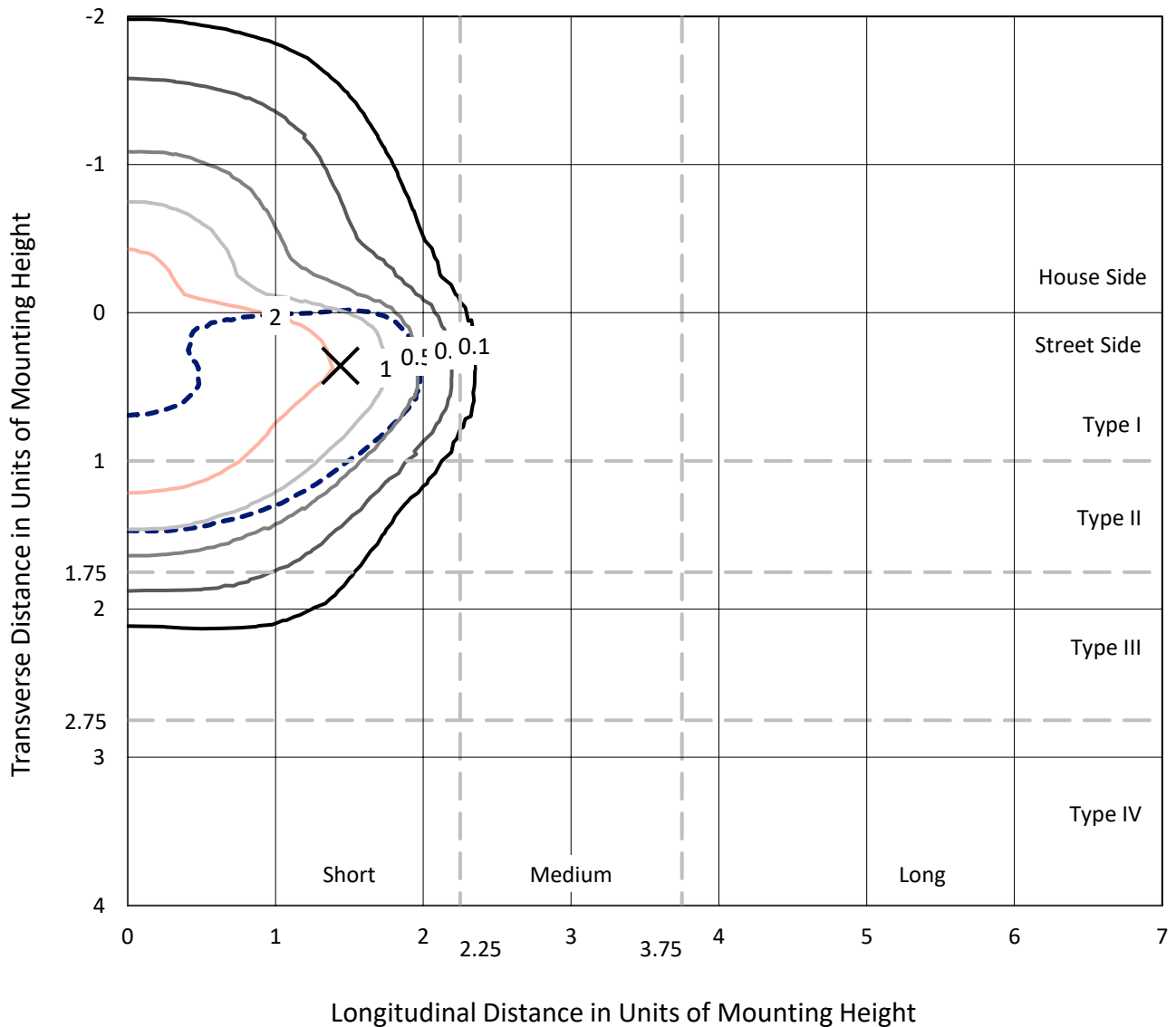
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

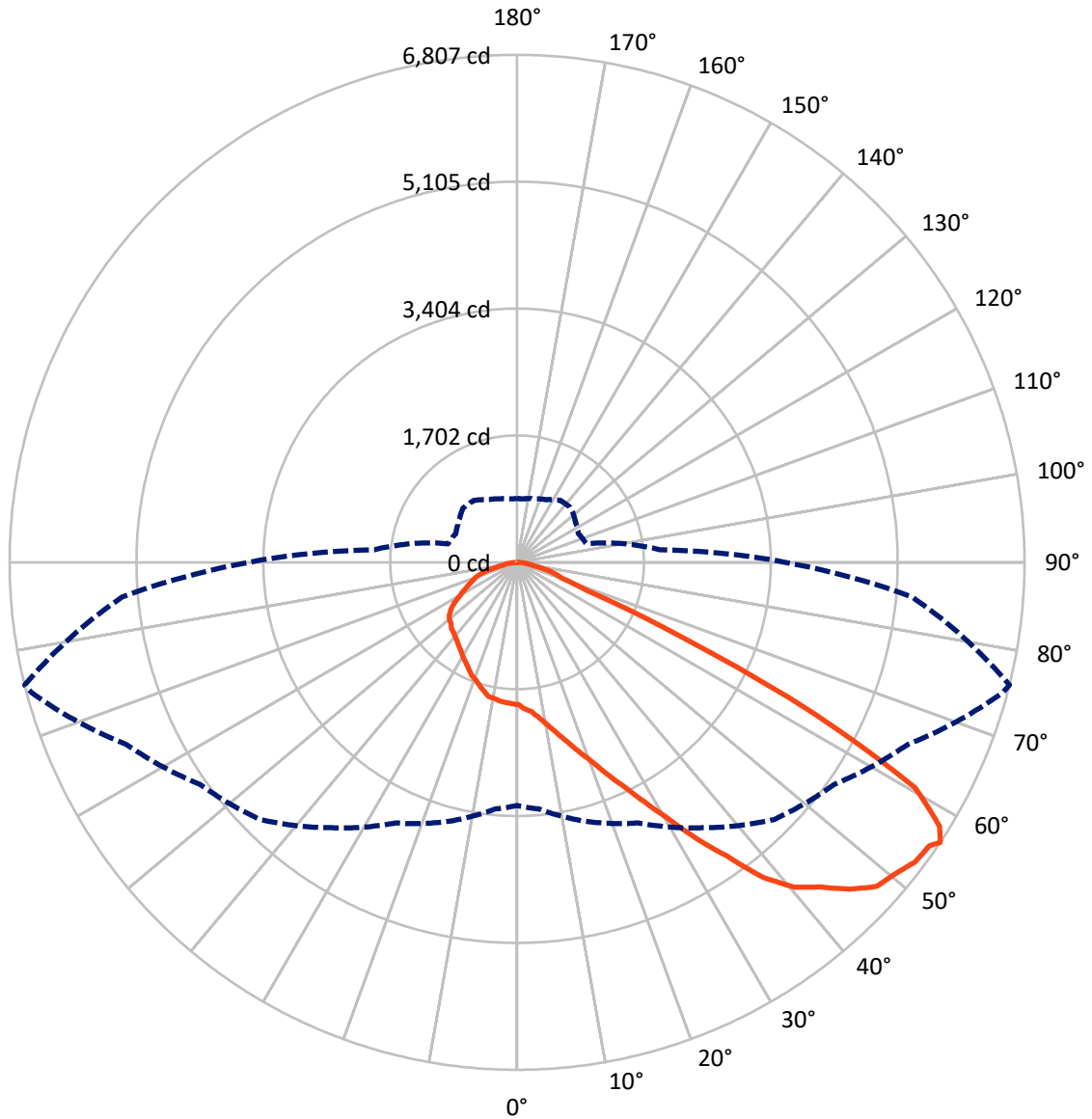
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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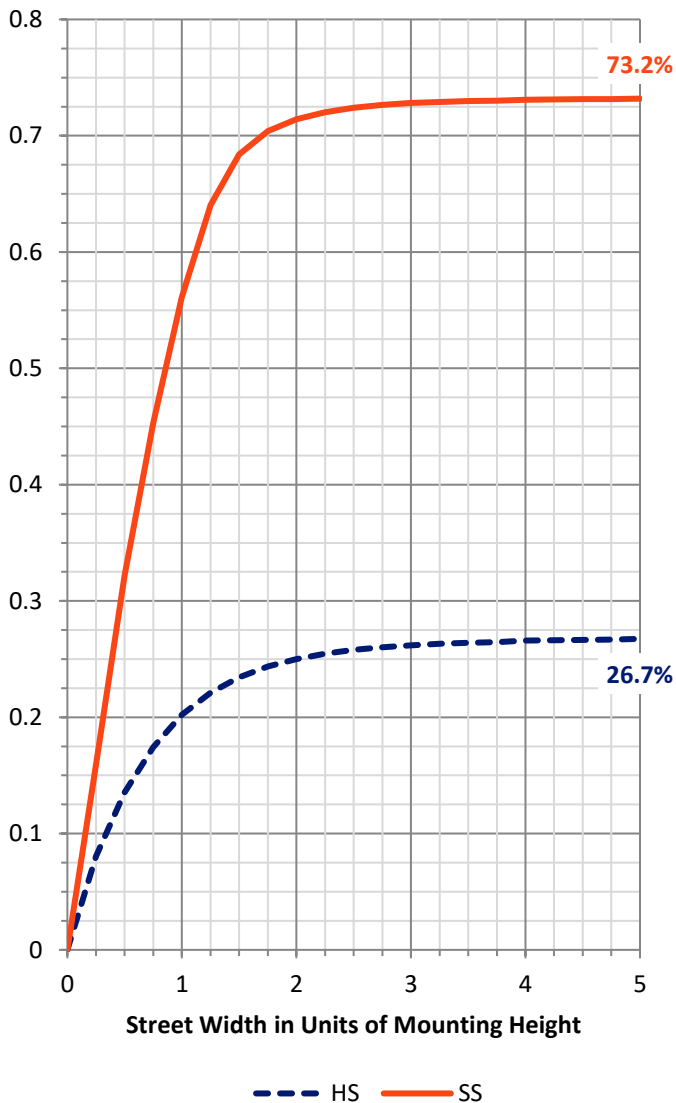
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2681.6	0.0	2681.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7291.9	0.0	7291.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	9973.4	0.0	9973.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	1.9
10°-20°	594.5	6.0
20°-30°	1039.7	10.4
30°-40°	1627.8	16.3
40°-50°	2368.0	23.7
50°-60°	2602.6	26.1
60°-70°	1161.7	11.6
70°-80°	335.5	3.4
80°-90°	54.4	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°	9973.4	100.0
0°-180°	9973.4	100.0

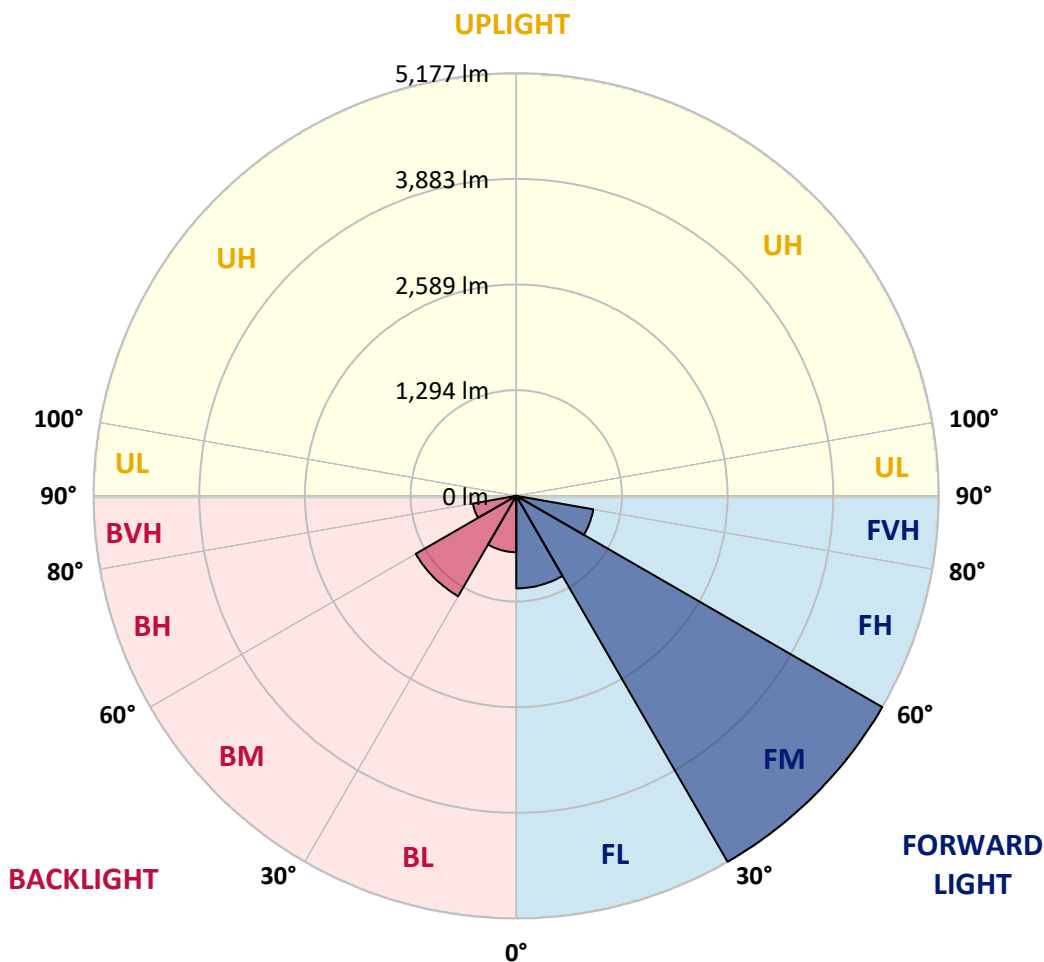


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1133.4	11.4			
FM (30°-60°)	5177.4	51.9			
FH (60°-80°)	957.7	9.6			G1/1800
FVH (80°-90°)	23.4	0.2			G1/100
BL (0°-30°)	690.0	6.9	B2/1000		
BM (30°-60°)	1421.0	14.2	B2/2500		
BH (60°-80°)	539.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	31.0	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°	1908.3	1908.3	1908.3	1908.3	1908.3	1908.3	1908.3	1908.3	1908.3	1908.3	1908.3
2.5°	2102.2	2068.6	2066.0	2057.0	2062.1	2038.8	2014.3	1982.0	1948.3	1969.0	1919.9
5°	2249.6	2204.3	2222.4	2191.4	2195.3	2164.3	2113.9	2076.3	2035.0	2010.4	1975.5
7.5°	2301.3	2305.2	2318.1	2312.9	2287.1	2287.1	2253.5	2187.5	2115.1	2100.9	2042.7
10°	2371.1	2372.5	2358.2	2362.1	2398.3	2381.5	2351.8	2323.3	2230.2	2213.4	2110.0
12.5°	2395.7	2372.5	2395.7	2416.4	2459.1	2482.3	2475.8	2455.1	2355.6	2344.0	2192.7
15°	2399.5	2385.3	2404.8	2451.3	2488.8	2587.1	2636.2	2622.0	2490.1	2491.4	2285.8
17.5°	2381.5	2400.9	2408.6	2448.7	2535.4	2627.1	2769.3	2788.8	2680.1	2663.4	2403.5
20°	2406.0	2391.8	2402.1	2438.4	2553.4	2696.9	2883.1	3011.1	2858.6	2847.0	2525.0
22.5°	2500.5	2481.0	2478.4	2501.7	2584.5	2733.2	3003.4	3233.5	3075.8	3082.2	2676.2
25°	2574.1	2584.5	2575.4	2574.1	2625.9	2787.4	3162.4	3498.6	3370.6	3333.1	2854.7
27.5°	2700.8	2725.3	2707.3	2731.8	2720.2	2868.9	3276.1	3792.0	3688.5	3638.2	3016.2
30°	2876.6	2889.6	2872.8	2872.8	2837.9	2982.7	3379.6	4098.4	4055.7	3987.3	3206.3
32.5°	3108.1	3127.4	3093.9	3074.4	3069.3	3152.1	3565.8	4401.0	4473.4	4415.2	3458.4
35°	3414.5	3402.9	3362.7	3344.7	3274.9	3411.9	3842.4	4748.7	4938.8	4835.3	3763.6
37.5°	3684.7	3666.6	3664.0	3563.1	3580.0	3692.5	4077.8	5012.4	5390.0	5360.3	4085.5
40°	3936.8	3953.6	3980.8	3923.9	3898.0	4022.2	4351.8	5214.2	5740.3	5728.7	4333.8
42.5°	4207.0	4191.5	4239.3	4191.5	4152.7	4328.5	4649.2	5353.8	6048.1	5952.4	4593.6
45°	4598.8	4549.6	4566.5	4570.3	4541.9	4606.5	4772.0	5454.6	6264.0	6253.7	4783.6
47.5°	4925.8	4927.2	4898.7	4876.7	4790.1	4854.8	4909.1	5518.0	6512.2	6495.4	4857.4
50°	5047.4	5030.6	5113.4	5161.1	5166.3	5034.5	5016.4	5552.9	6642.8	6569.1	4931.0
52.5°	4610.4	4625.9	4756.5	5041.0	5205.1	5219.3	5141.8	5625.3	6695.8	6680.3	4990.5
55°	3710.6	3785.5	4000.1	4328.5	4717.7	5145.7	5277.5	5700.3	6724.2	6711.3	5254.2
56°	3261.9	3320.1	3599.4	3856.7	4345.4	4878.1	5192.2	5780.4	6746.2	6807.0	5316.3
57.5°	2625.9	2693.1	2893.5	3185.6	3762.3	4368.7	4956.9	5682.2	6660.9	6684.2	5361.5
60°	1642.0	1648.4	1888.9	2081.6	2487.5	3079.7	3783.0	4944.0	6164.4	6130.8	4816.0
62.5°	1077.0	1078.2	1296.7	1454.5	1639.4	1775.1	2226.3	3278.7	4548.4	4488.8	3428.7
65°	756.3	773.1	942.5	1153.3	1228.2	1157.1	1142.9	1728.6	2540.5	2455.1	1842.4
67.5°	553.4	554.6	704.6	930.9	1039.5	880.4	714.9	844.3	1005.8	1003.3	853.3
70°	365.9	381.4	496.4	695.6	819.7	707.2	584.4	603.8	640.0	640.0	634.8
72.5°	213.4	227.6	303.9	440.9	460.3	442.2	462.9	517.1	540.4	539.2	532.7
75°	121.5	128.0	144.8	183.6	228.8	270.2	340.0	391.7	415.0	429.2	412.4
77.5°	71.1	75.0	85.4	104.7	118.9	146.1	184.9	221.1	252.1	248.3	250.8
80°	37.5	37.5	47.9	62.1	82.8	103.4	122.8	143.5	160.3	164.2	168.1
82.5°	22.0	23.3	31.0	45.2	59.5	73.7	94.4	108.6	124.1	125.4	128.0
85°	11.6	13.0	19.4	29.8	40.1	45.2	46.5	44.0	47.9	45.2	51.7
87.5°	3.9	3.9	6.5	5.1	5.1	6.5	7.7	7.7	10.3	10.3	10.3
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°	1908.3	1908.3	1908.3	1908.3	1908.3	1908.3	1908.3	1908.3	1908.3	1908.3	1908.3
2.5°	1918.7	1918.7	1896.6	1855.2	1848.9	1832.0	1816.5	1815.2	1803.5	1793.2	1788.1
5°	1954.8	1914.8	1882.4	1844.9	1801.0	1780.3	1757.0	1731.2	1720.9	1731.2	1729.9
7.5°	1996.2	1962.6	1865.6	1795.8	1745.4	1724.7	1698.8	1671.7	1674.3	1674.3	1656.2
10°	2036.3	1991.1	1835.9	1746.7	1673.0	1657.4	1643.2	1653.6	1666.5	1669.1	1657.4
12.5°	2103.5	2001.4	1821.7	1697.6	1651.0	1617.4	1626.4	1654.9	1682.0	1674.3	1683.3
15°	2154.0	2010.4	1757.0	1647.1	1589.0	1604.5	1636.8	1656.2	1701.4	1696.2	1705.3
17.5°	2203.1	2015.6	1693.7	1579.9	1555.3	1598.0	1622.5	1678.1	1692.3	1723.4	1735.1
20°	2303.9	2026.0	1629.0	1538.5	1530.8	1579.9	1622.5	1648.4	1679.5	1706.6	1706.6
22.5°	2355.6	2020.8	1586.4	1484.2	1508.8	1539.8	1578.6	1622.5	1622.5	1648.4	1649.7
25°	2420.2	2000.1	1519.1	1458.4	1476.5	1506.2	1550.1	1534.7	1551.5	1551.5	1572.2
27.5°	2494.0	1956.1	1461.0	1411.8	1448.0	1480.3	1486.8	1476.5	1457.0	1454.5	1446.7
30°	2553.4	1901.8	1418.3	1396.3	1426.1	1444.2	1423.5	1401.4	1367.9	1365.3	1347.2
32.5°	2634.9	1834.6	1365.3	1357.5	1391.1	1392.4	1386.0	1352.3	1303.2	1282.5	1261.8
35°	2771.9	1795.8	1325.2	1336.9	1347.2	1343.3	1331.6	1295.5	1246.4	1237.3	1229.5
37.5°	2872.8	1767.4	1283.8	1298.1	1307.1	1312.3	1277.4	1237.3	1238.5	1220.5	1215.3
40°	2986.6	1749.3	1250.2	1256.7	1258.0	1274.8	1232.1	1212.7	1221.8	1210.1	1217.9
42.5°	3132.6	1754.4	1215.3	1210.1	1234.7	1228.2	1207.5	1181.7	1186.8	1151.9	1157.1
45°	3210.2	1789.3	1194.6	1171.3	1198.5	1197.2	1170.1	1145.5	1114.5	1047.2	1049.8
47.5°	3261.9	1798.4	1145.5	1130.0	1158.4	1175.2	1144.2	1087.3	1043.3	995.5	983.9
50°	3315.0	1815.2	1122.2	1089.9	1101.5	1141.6	1102.8	1048.6	1005.8	963.2	969.7
52.5°	3361.5	1847.5	1077.0	1029.1	1049.8	1093.8	1073.1	1007.2	960.6	925.7	915.3
55°	3568.4	1919.9	1000.7	938.6	987.8	1043.3	1031.7	951.6	901.1	883.0	880.4
56°	3600.7	1922.5	960.6	907.6	952.9	1026.5	1012.3	927.0	881.7	853.3	854.6
57.5°	3605.9	1891.5	903.7	879.2	918.0	1002.0	983.9	907.6	845.5	819.7	811.9
60°	3172.8	1476.5	832.6	817.1	862.4	927.0	920.6	854.6	784.7	755.0	769.3
62.5°	2163.0	1082.1	777.0	774.4	797.7	861.0	844.3	784.7	726.6	707.2	698.1
65°	1259.2	821.0	722.8	712.4	731.8	765.4	777.0	714.9	654.2	641.3	637.4
67.5°	743.4	678.8	652.9	636.1	629.7	650.3	659.3	623.2	562.4	544.3	559.9
70°	621.8	603.8	605.1	576.6	561.1	546.9	539.2	506.8	456.4	433.1	426.6
72.5°	536.6	528.8	523.6	497.8	483.6	451.2	417.6	385.3	347.8	328.4	329.7
75°	409.8	407.3	409.8	397.0	372.3	346.5	315.5	274.1	245.7	221.1	226.2
77.5°	244.4	252.1	256.0	250.8	240.4	217.2	197.8	170.6	143.5	124.1	121.5
80°	168.1	174.5	181.0	174.5	164.2	147.4	126.7	106.1	86.6	76.3	73.7
82.5°	128.0	134.5	138.3	131.9	118.9	100.8	86.6	72.4	56.9	46.5	44.0
85°	46.5	53.0	51.7	62.1	67.2	64.7	55.6	42.6	32.3	23.3	22.0
87.5°	13.0	11.6	13.0	13.0	13.0	11.6	10.3	10.3	10.3	6.5	5.1
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)