

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: P527024

Luminaire Tested: **GALN-SA2A-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
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-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7311 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

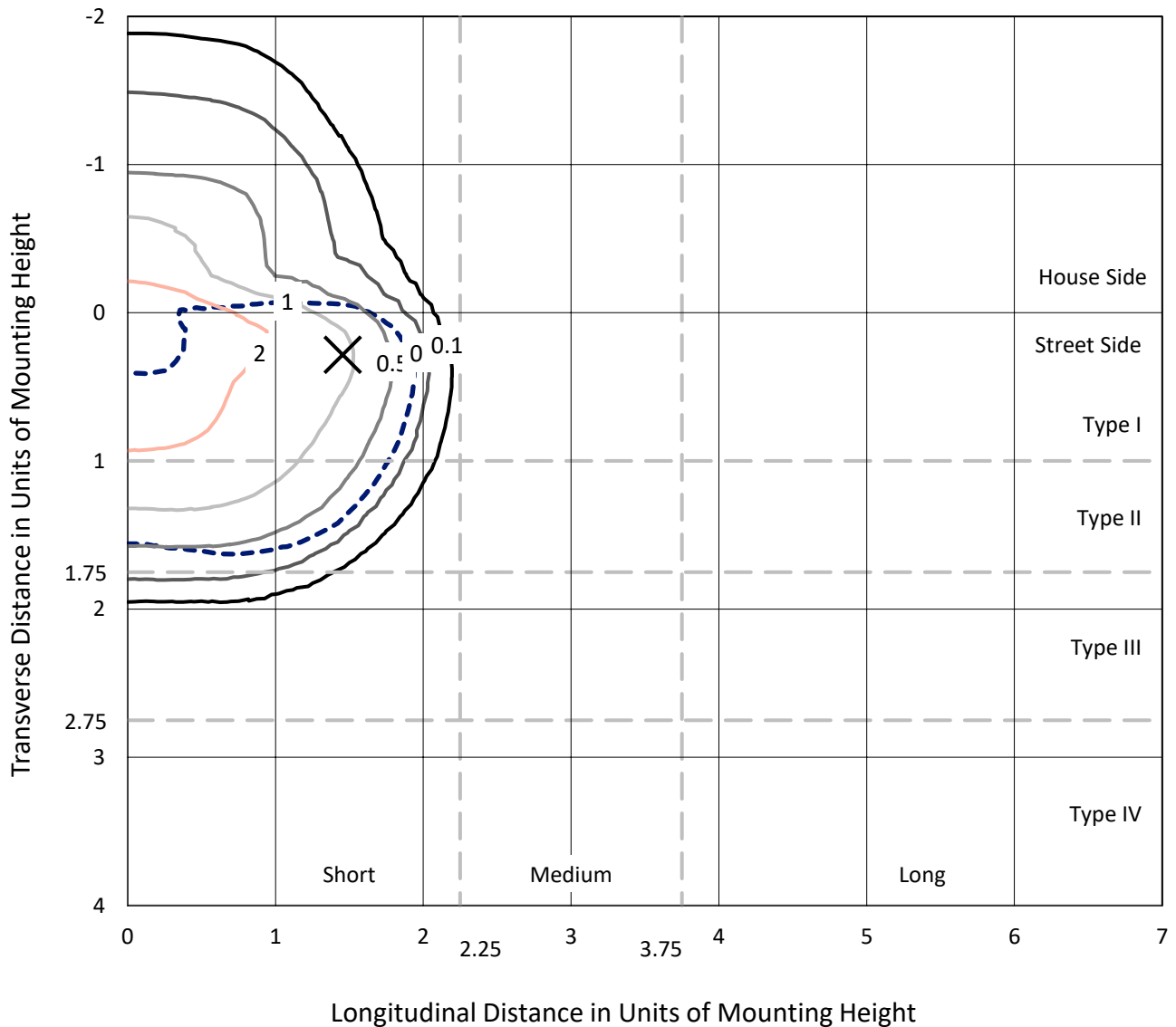
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

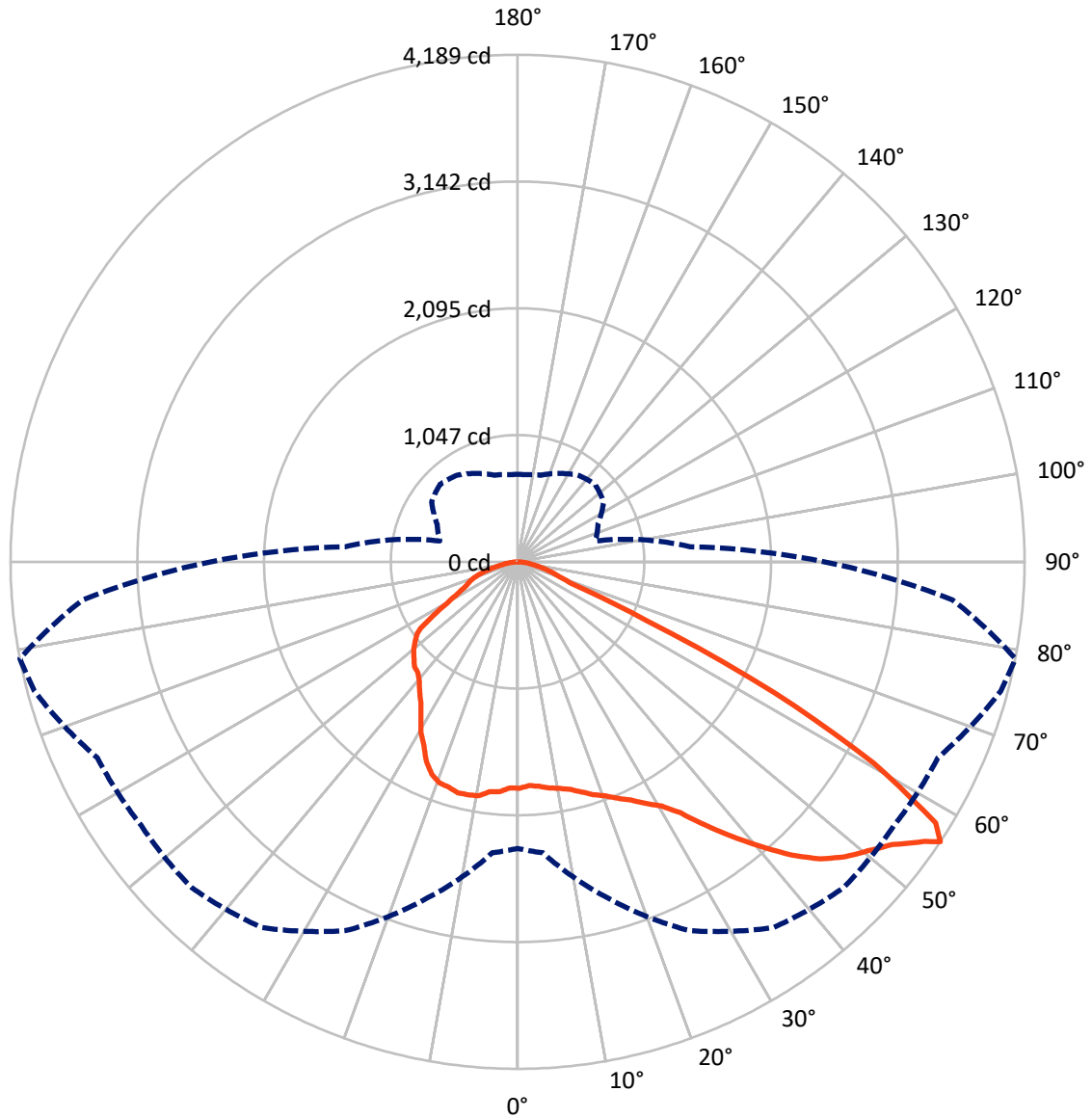
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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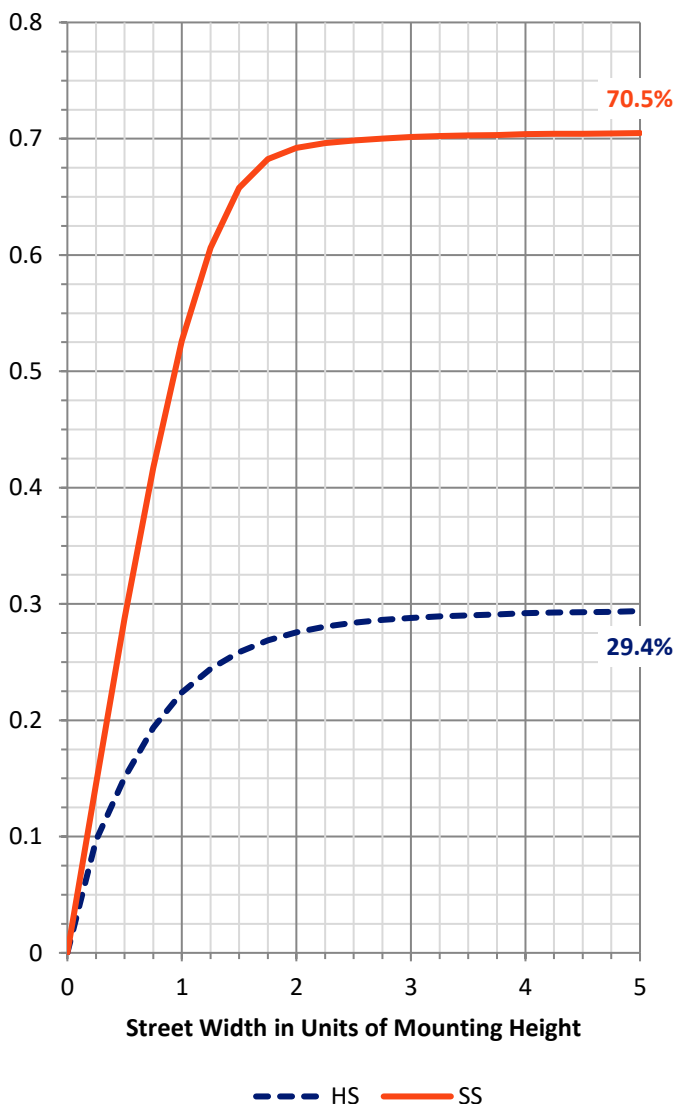
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2159.1	0.0	2159.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	5151.9	0.0	5151.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	7311.0	0.0	7311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	2.3
10°-20°	465.4	6.4
20°-30°	796.3	10.9
30°-40°	1220.4	16.7
40°-50°	1649.4	22.6
50°-60°	1894.3	25.9
60°-70°	863.5	11.8
70°-80°	212.9	2.9
80°-90°	38.7	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°	7311.0	100.0
0°-180°	7311.0	100.0

Coefficient of Utilization

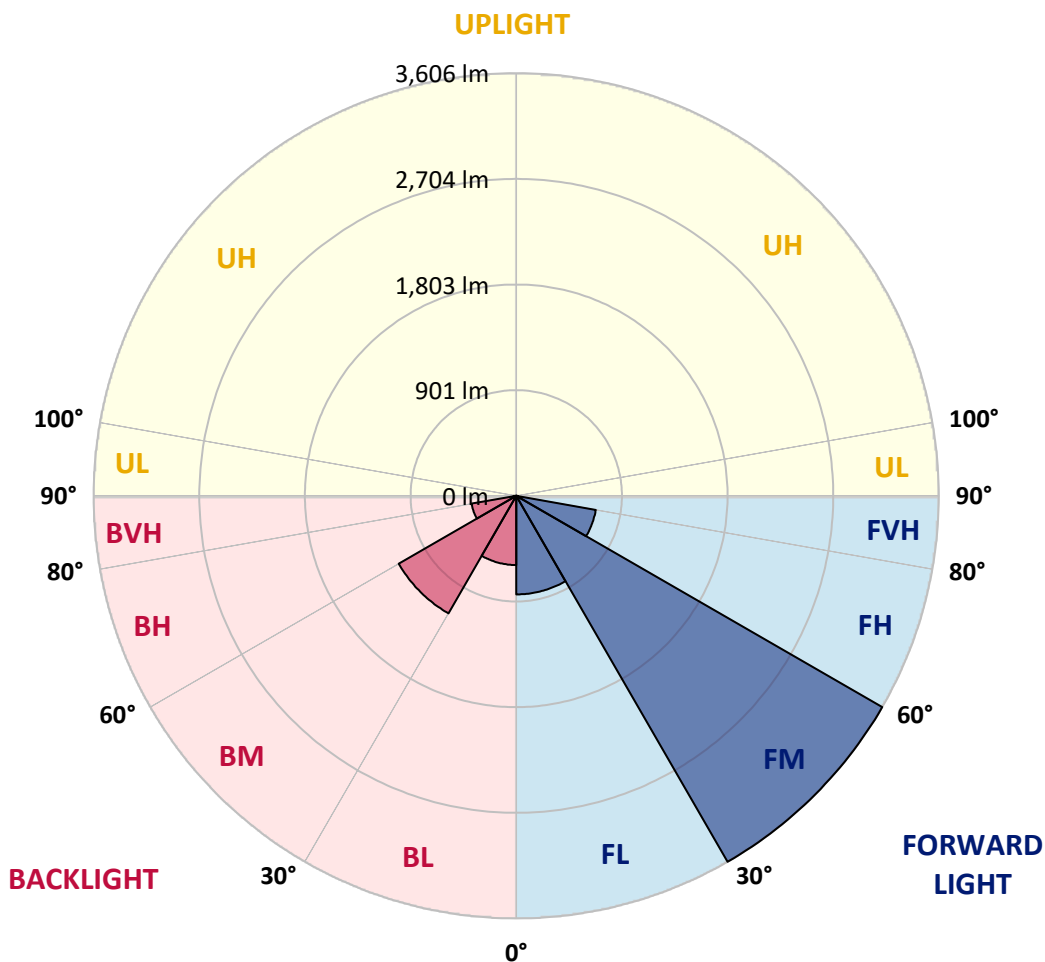


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	841.2	11.5			
FM (30°-60°)	3606.0	49.3			
FH (60°-80°)	689.3	9.4			G1/1800
FVH (80°-90°)	15.4	0.2			G1/100
BL (0°-30°)	590.6	8.1	B2/1000		
BM (30°-60°)	1158.1	15.8	B2/2500		
BH (60°-80°)	387.1	5.3	B1/500		G1/500
BVH (80°-90°)	23.2	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°	79°	85°
0°	1870.6	1870.6	1870.6	1870.6	1870.6	1870.6	1870.6	1870.6	1870.6	1870.6	1870.6
2.5°	1779.5	1775.0	1785.9	1794.1	1804.1	1816.9	1823.2	1826.9	1858.8	1850.6	1875.1
5°	1741.3	1729.4	1737.6	1744.0	1761.3	1776.8	1794.1	1821.4	1850.6	1863.3	1893.4
7.5°	1707.6	1701.2	1699.4	1703.9	1727.6	1747.6	1777.7	1817.8	1865.1	1886.1	1903.4
10°	1652.0	1642.9	1656.6	1686.6	1693.0	1734.9	1769.5	1826.9	1867.9	1904.3	1955.3
12.5°	1627.4	1618.3	1621.1	1638.4	1683.0	1723.1	1764.0	1828.7	1915.2	1929.8	1998.1
15°	1666.6	1657.5	1660.2	1655.7	1698.5	1719.4	1784.1	1865.1	1948.0	1972.6	2045.5
17.5°	1755.8	1756.8	1744.9	1734.9	1724.9	1769.5	1814.1	1887.0	1960.8	2022.7	2077.3
20°	1926.1	1896.1	1872.4	1816.0	1800.5	1819.6	1876.1	1946.2	2012.7	2063.7	2125.6
22.5°	2057.3	2060.0	2026.3	1933.4	1899.7	1907.9	1956.2	2013.6	2086.4	2122.9	2193.9
25°	2247.6	2228.5	2192.1	2118.3	2042.7	2049.1	2084.6	2136.5	2156.6	2182.1	2259.5
27.5°	2421.6	2427.0	2355.1	2285.9	2192.1	2173.9	2237.6	2246.7	2213.0	2261.3	2287.7
30°	2598.3	2593.7	2546.3	2465.3	2373.3	2376.9	2405.2	2360.6	2314.1	2340.5	2358.7
32.5°	2781.3	2729.4	2727.6	2654.7	2584.6	2550.9	2516.3	2538.1	2466.2	2471.7	2454.4
35°	2927.9	2935.2	2893.3	2841.4	2806.8	2747.6	2652.9	2692.1	2678.4	2672.0	2597.3
37.5°	3034.5	3006.2	3027.2	3009.9	2977.1	2903.3	2805.0	2842.3	2848.7	2879.7	2793.1
40°	3121.9	3110.1	3165.6	3174.7	3152.0	2992.6	2815.9	2927.0	3022.6	3090.0	2987.1
42.5°	3163.8	3189.3	3247.6	3317.7	3266.7	3096.4	2872.4	2991.7	3204.8	3311.3	3171.1
45°	3220.3	3187.5	3274.0	3402.4	3403.3	3183.8	2927.0	3079.1	3346.9	3501.7	3296.8
47.5°	3162.9	3179.3	3268.5	3431.5	3473.4	3275.8	3074.6	3203.0	3503.5	3641.0	3413.3
50°	3034.5	3067.3	3230.3	3399.7	3526.3	3373.3	3243.9	3336.8	3648.3	3753.0	3432.5
52.5°	2900.6	2918.8	3173.8	3424.3	3549.9	3498.9	3470.7	3521.7	3825.0	3879.6	3456.1
55°	2536.3	2622.8	2987.1	3413.3	3665.6	3725.7	3703.9	3778.5	4025.3	4080.0	3585.5
56°	2367.8	2413.4	2875.1	3362.3	3688.4	3808.6	3797.7	3831.4	4131.9	4189.3	3605.5
57.5°	2056.4	2060.0	2451.6	3136.5	3602.8	3833.2	3822.2	3848.7	4110.9	4071.8	3429.7
60°	1286.8	1343.3	1668.4	2412.5	3063.6	3556.3	3618.2	3406.1	3466.2	3383.3	2668.4
62.5°	666.6	658.4	874.3	1410.7	2033.6	2546.3	2603.7	2593.7	2500.8	2379.7	1743.1
65°	332.4	334.2	457.2	698.5	1041.9	1333.3	1493.6	1510.9	1264.1	1163.0	826.9
67.5°	241.3	250.4	328.8	427.1	490.9	549.2	673.0	660.3	500.0	475.4	440.8
70°	187.6	195.8	266.8	326.0	296.0	296.0	322.4	333.3	356.1	366.1	377.9
72.5°	136.6	143.0	204.0	224.9	194.0	208.6	241.3	266.8	290.5	294.2	307.8
75°	93.8	99.3	133.9	123.9	116.6	143.9	176.7	200.4	217.7	226.8	235.0
77.5°	61.0	62.8	76.5	64.7	74.7	92.9	114.7	134.8	152.1	159.4	161.2
80°	27.3	30.1	32.8	41.0	51.9	66.5	82.0	98.4	109.3	112.0	117.5
82.5°	15.5	15.5	20.0	29.1	38.2	48.3	59.2	71.0	83.8	86.5	85.6
85°	8.2	8.2	11.8	17.3	23.7	28.2	27.3	28.2	30.1	34.6	33.7
87.5°	2.7	2.7	3.6	3.6	4.6	5.5	4.6	6.4	8.2	8.2	8.2
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°	1870.6	1870.6	1870.6	1870.6	1870.6	1870.6	1870.6	1870.6	1870.6	1870.6	1870.6
2.5°	1867.9	1876.1	1865.1	1888.8	1888.8	1884.3	1861.5	1868.8	1874.2	1874.2	1878.8
5°	1903.4	1900.6	1907.9	1879.7	1862.4	1856.0	1818.7	1800.5	1785.0	1784.1	1770.4
7.5°	1923.4	1916.1	1913.4	1892.5	1816.0	1769.5	1689.4	1642.9	1632.9	1597.4	1611.0
10°	1955.3	1969.0	1955.3	1841.5	1734.9	1628.3	1550.0	1478.1	1449.8	1427.1	1413.4
12.5°	2020.9	2014.5	1935.3	1781.3	1632.0	1505.4	1388.8	1313.2	1285.0	1265.0	1263.2
15°	2076.4	2044.5	1923.4	1686.6	1471.7	1336.9	1241.3	1187.6	1174.8	1176.6	1184.8
17.5°	2095.5	2073.7	1861.5	1588.3	1352.4	1193.9	1149.3	1141.1	1153.0	1166.6	1170.3
20°	2125.6	2091.0	1836.0	1454.4	1204.9	1104.7	1102.0	1131.1	1153.0	1173.0	1175.7
22.5°	2188.4	2101.0	1753.1	1327.8	1103.8	1078.3	1104.7	1129.3	1163.0	1179.4	1164.8
25°	2206.6	2079.1	1636.5	1175.7	1040.0	1061.9	1090.1	1123.8	1147.5	1156.6	1163.0
27.5°	2222.1	2045.5	1479.0	1074.6	1020.0	1061.0	1090.1	1118.4	1131.1	1139.3	1146.6
30°	2265.8	2035.4	1342.4	1007.2	1007.2	1042.8	1080.1	1087.4	1104.7	1114.7	1127.5
32.5°	2287.7	1966.2	1202.1	964.4	994.5	1051.9	1054.6	1068.3	1069.2	1077.4	1063.7
35°	2345.1	1917.0	1071.9	933.5	1000.0	1042.8	1056.4	1048.2	1003.6	981.7	986.3
37.5°	2387.0	1892.5	978.1	929.8	1000.9	1052.8	1060.1	998.1	951.7	915.3	924.4
40°	2499.9	1831.4	907.1	923.5	1009.1	1063.7	1043.7	976.3	892.5	855.2	848.8
42.5°	2586.4	1787.7	862.4	916.2	1015.4	1079.2	1035.5	932.6	847.0	812.4	821.5
45°	2686.6	1777.7	838.8	918.0	1026.4	1087.4	1025.5	898.9	807.8	794.1	791.4
47.5°	2722.1	1705.8	813.3	902.5	1023.6	1084.7	991.8	873.4	793.2	795.0	802.3
50°	2662.9	1632.0	794.1	870.6	1005.4	1060.1	938.9	839.7	785.0	807.8	820.5
52.5°	2587.3	1556.4	755.0	827.8	968.1	1021.8	914.4	837.9	776.8	769.5	772.3
55°	2610.1	1494.5	700.3	769.5	908.0	950.8	887.0	820.5	756.8	729.5	738.6
56°	2536.3	1430.7	664.8	733.1	867.0	905.2	873.4	805.1	740.4	722.2	722.2
57.5°	2327.8	1216.7	618.4	674.8	780.5	826.0	847.0	796.0	722.2	690.3	691.2
60°	1716.7	865.2	554.6	594.7	646.6	683.0	780.5	770.5	676.7	654.8	646.6
62.5°	1058.2	632.0	509.1	524.6	551.0	581.0	681.2	697.6	628.4	604.7	599.2
65°	592.9	483.6	474.5	480.9	493.6	509.1	565.6	602.0	554.6	518.2	516.4
67.5°	433.5	432.6	439.9	445.3	450.8	450.8	464.5	479.0	472.7	443.5	440.8
70°	385.2	388.0	393.4	394.3	396.2	389.8	378.9	374.3	381.6	363.4	359.7
72.5°	317.8	326.9	333.3	334.2	324.2	316.0	301.4	286.0	280.5	276.9	275.9
75°	244.1	250.4	253.2	252.3	248.6	236.8	219.5	204.0	194.0	183.1	188.5
77.5°	164.8	173.9	178.5	178.5	173.0	154.8	146.6	134.8	124.8	112.9	114.7
80°	115.7	122.0	129.3	128.4	119.3	110.2	98.4	87.4	79.2	70.1	69.2
82.5°	86.5	90.2	93.8	92.0	85.6	76.5	68.3	58.3	49.2	42.8	42.8
85°	31.0	33.7	41.0	42.8	46.4	46.4	39.2	32.8	26.4	21.9	21.9
87.5°	9.1	9.1	10.0	10.0	9.1	10.0	8.2	9.1	10.0	6.4	6.4
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)