

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: P529074

Luminaire Tested: **GALN-SA4B-722-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-722-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14541 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

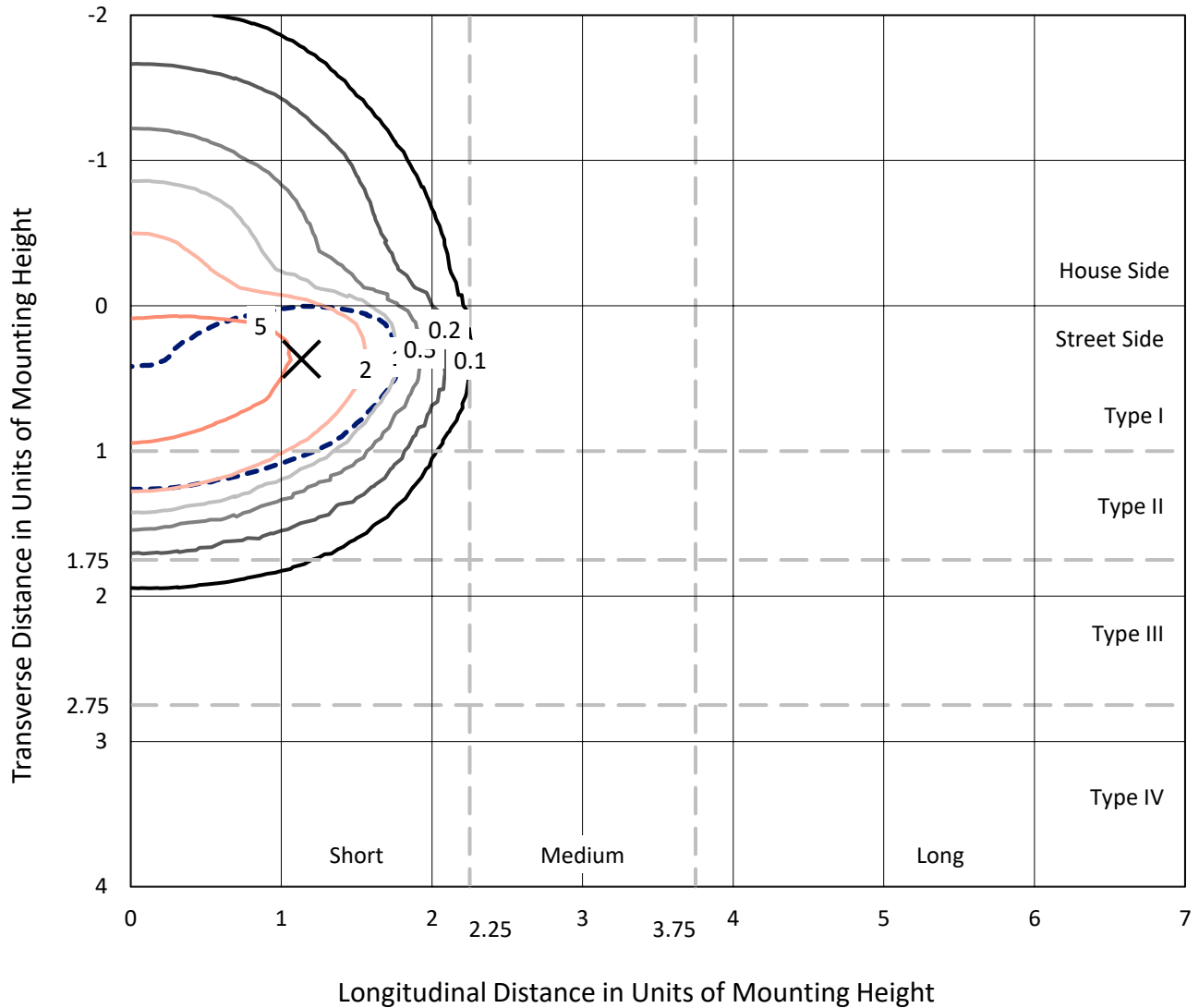
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

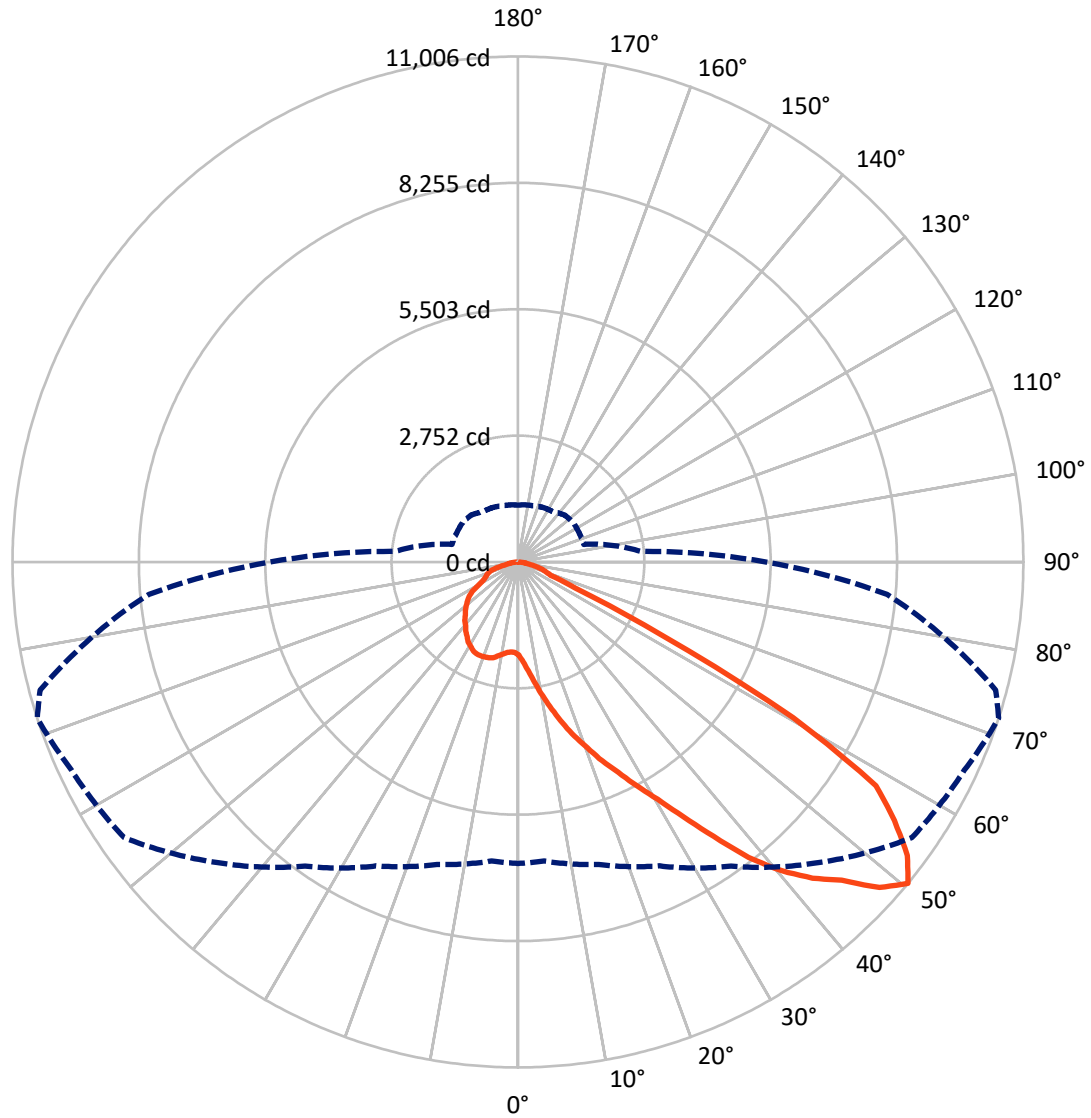
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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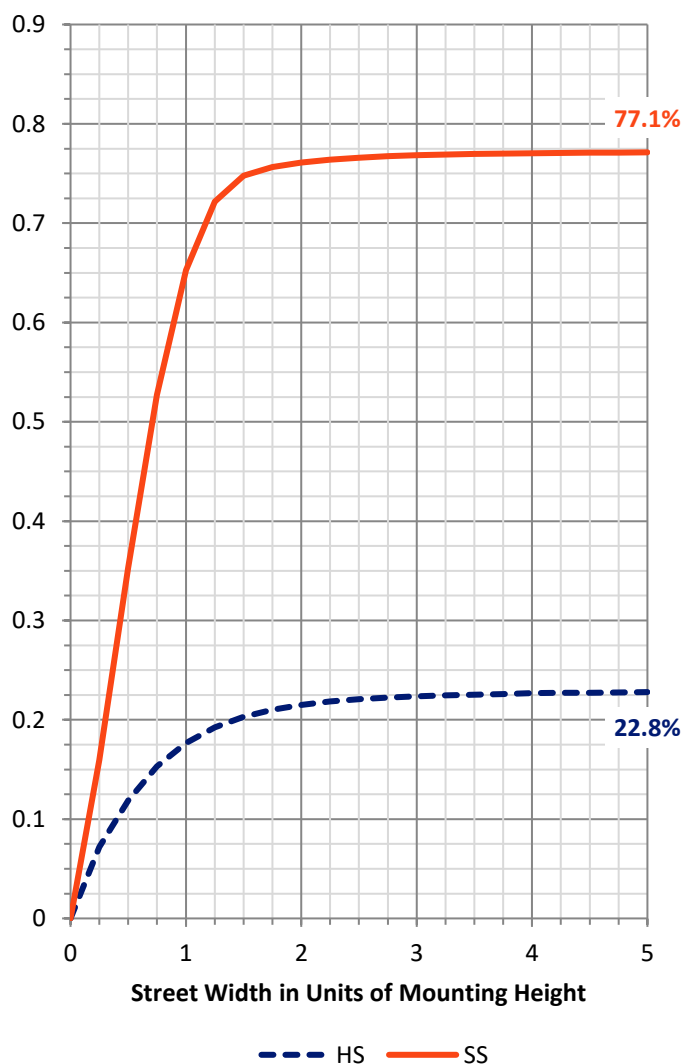
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3331.4	0.0	3331.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	11209.6	0.0	11209.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	14541.0	0.0	14541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.1	1.6
10°-20°	890.1	6.1
20°-30°	1725.8	11.9
30°-40°	2859.1	19.7
40°-50°	4000.5	27.5
50°-60°	3375.0	23.2
60°-70°	1028.7	7.1
70°-80°	360.9	2.5
80°-90°	62.8	0.4
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°	14541.0	100.0
0°-180°	14541.0	100.0

Coefficient of Utilization



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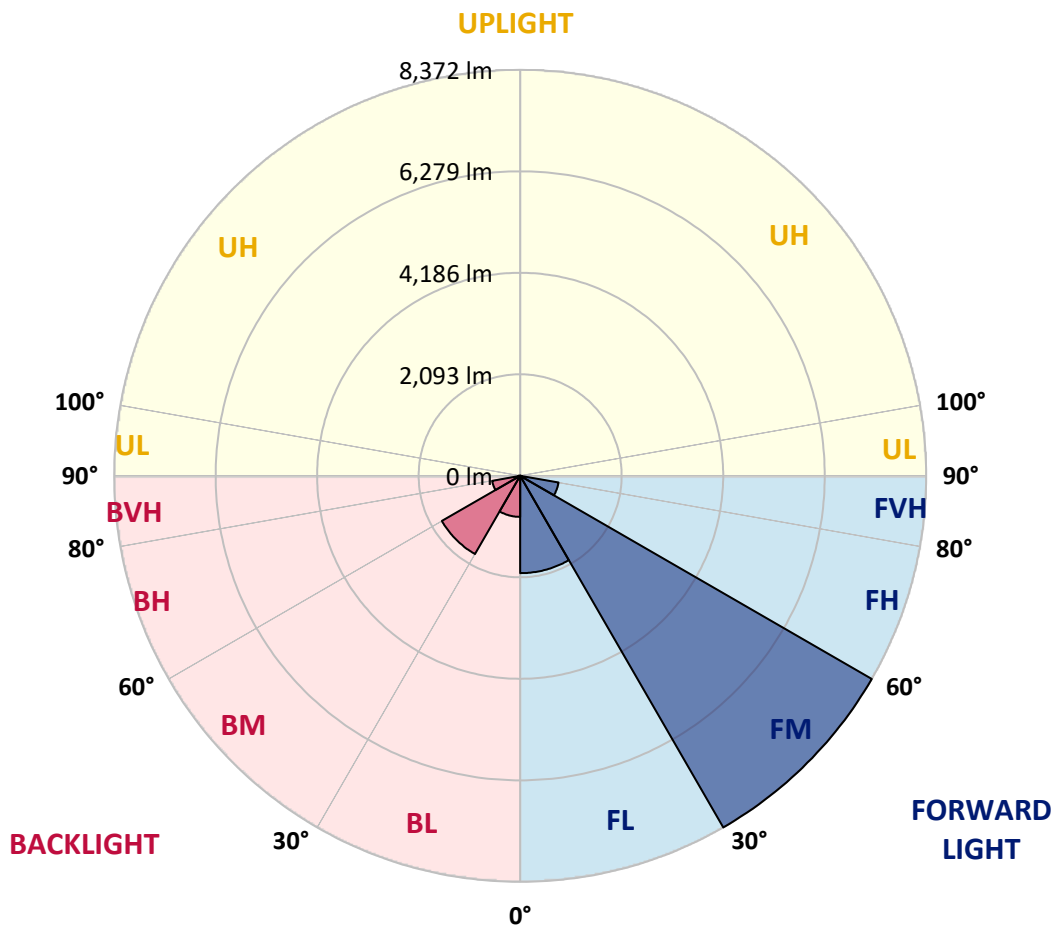
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2007.2	13.8			
FM (30°-60°)	8371.6	57.6			
FH (60°-80°)	802.6	5.5			G1/1800
FVH (80°-90°)	28.1	0.2			G1/100
BL (0°-30°)	846.9	5.8	B2/1000		
BM (30°-60°)	1863.0	12.8	B2/2500		
BH (60°-80°)	586.9	4.0	B2/1000		G2/1000
BVH (80°-90°)	34.6	0.2			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°	72°	75°	85°
0°	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2
2.5°	2603.6	2587.4	2538.8	2522.6	2465.1	2360.7	2324.7	2218.6	2173.6	2132.2	2083.6
5°	3292.7	3217.2	3211.8	3120.0	2986.9	2909.5	2679.2	2524.4	2382.3	2310.3	2177.2
7.5°	3731.8	3733.6	3733.6	3658.0	3551.9	3355.7	3148.8	2869.9	2655.8	2549.6	2322.9
10°	4149.2	4113.2	4093.4	4086.2	4014.3	3823.5	3602.2	3256.8	2963.5	2839.3	2432.7
12.5°	4444.3	4413.7	4458.7	4435.3	4383.1	4259.0	4050.3	3656.2	3289.2	3121.8	2609.0
15°	4584.7	4606.3	4642.2	4707.0	4683.6	4636.8	4406.5	4066.5	3640.0	3451.1	2765.5
17.5°	4800.6	4741.2	4784.4	4865.4	4930.1	4908.5	4777.2	4363.3	3987.3	3755.2	2976.1
20°	4951.7	4917.5	4939.1	5032.7	5081.3	5203.6	5135.2	4752.0	4320.2	4075.5	3224.4
22.5°	5383.6	5333.2	5263.0	5277.4	5295.4	5381.8	5397.9	5178.4	4707.0	4447.9	3460.1
25°	5916.2	5869.4	5786.6	5702.0	5649.9	5633.7	5689.4	5513.1	5077.7	4809.6	3713.8
27.5°	6502.7	6423.6	6371.4	6196.8	6056.5	6034.9	6007.9	5912.6	5516.7	5227.0	3999.9
30°	7073.1	7010.1	6940.0	6661.1	6515.3	6491.9	6358.8	6385.8	5993.5	5671.4	4323.8
32.5°	7504.9	7510.3	7350.2	7139.7	7002.9	6878.8	6830.2	6907.6	6605.3	6346.2	4685.4
35°	7854.0	7870.2	7717.3	7526.5	7379.0	7465.4	7443.8	7479.8	7335.8	7019.1	5106.5
37.5°	8194.1	8113.1	7949.4	7857.6	7780.2	7922.4	8105.9	8136.5	8163.5	7791.0	5595.9
40°	8249.9	8257.1	8161.7	8226.5	8129.3	8343.4	8769.9	8730.3	8840.0	8514.4	6126.7
42.5°	8170.7	8186.9	8224.7	8316.4	8550.4	8807.7	9441.0	9279.1	9412.2	9122.5	6643.1
45°	8041.1	7974.6	8021.4	8370.4	8775.3	9347.4	10054.6	9928.6	9885.4	9642.5	7258.4
47.5°	7422.2	7490.6	7636.3	8066.3	8674.5	9441.0	10490.0	10461.2	10590.8	10419.8	7818.0
50°	6563.9	6536.9	6817.6	7301.6	8086.1	9257.5	10466.6	10727.5	11006.4	10768.9	8068.1
52.5°	4915.7	5059.7	5300.8	5901.8	7020.9	8257.1	9955.6	10391.1	10617.8	10567.4	7866.6
55°	3107.4	3150.6	3296.3	4010.7	5018.3	6626.9	8534.2	9543.6	9948.4	10137.3	7681.3
57.5°	1509.6	1428.7	1606.8	2180.8	2898.7	4456.9	6581.9	8312.8	9192.7	9534.6	7278.2
60°	788.1	818.7	888.9	1094.0	1498.8	2313.9	4102.4	5540.1	6884.2	7409.6	5516.7
62.5°	653.2	663.9	710.7	813.3	996.8	1331.5	2094.4	2700.8	3510.5	3983.7	3138.0
65°	554.2	559.6	610.0	678.3	795.3	937.4	1077.8	1128.2	1365.7	1401.7	1115.6
67.5°	462.4	467.8	521.8	586.6	662.1	699.9	735.9	732.3	759.3	748.5	746.7
70°	356.3	361.7	417.4	485.8	523.6	502.0	613.6	638.8	649.6	658.5	672.9
72.5°	257.3	268.1	311.3	359.9	340.1	390.5	505.6	543.4	557.8	563.2	581.2
75°	187.1	190.7	201.5	187.1	215.9	271.7	356.3	403.0	421.0	426.4	453.4
77.5°	82.8	84.6	86.4	108.0	138.5	169.1	212.3	250.1	275.3	282.5	289.7
80°	43.2	45.0	55.8	73.8	99.0	124.2	154.7	176.3	192.5	194.3	201.5
82.5°	27.0	28.8	39.6	52.2	70.2	91.8	113.4	131.4	143.9	145.7	147.5
85°	12.6	16.2	23.4	32.4	46.8	59.4	61.2	52.2	55.8	57.6	54.0
87.5°	3.6	5.4	7.2	5.4	7.2	7.2	9.0	10.8	10.8	10.8	12.6
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°	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2
2.5°	2056.6	2040.4	1977.4	1954.1	1892.9	1903.7	1871.3	1869.5	1862.3	1860.5	1858.7
5°	2107.0	2056.6	1981.0	1923.5	1889.3	1885.7	1862.3	1862.3	1869.5	1874.9	1862.3
7.5°	2189.8	2132.2	2004.4	1950.5	1919.9	1914.5	1898.3	1885.7	1901.9	1896.5	1882.1
10°	2285.1	2184.4	2049.4	2002.6	1952.3	1939.7	1939.7	1945.1	1918.1	1927.1	1912.7
12.5°	2391.3	2256.3	2107.0	2053.0	1993.6	1986.4	1982.8	1943.3	1957.7	1950.5	1914.5
15°	2526.2	2339.1	2180.8	2089.0	2038.6	2006.2	1959.5	1952.3	1943.3	1925.3	1909.1
17.5°	2672.0	2429.1	2215.0	2099.8	2024.2	2000.8	1964.9	1927.1	1900.1	1903.7	1891.1
20°	2796.1	2511.8	2227.6	2110.6	2013.4	1968.5	1912.7	1889.3	1860.5	1858.7	1856.9
22.5°	2943.7	2623.4	2245.5	2081.8	1981.0	1934.3	1896.5	1855.1	1835.3	1810.1	1822.7
25°	3120.0	2666.6	2249.1	2065.6	1957.7	1874.9	1855.1	1810.1	1802.9	1766.9	1774.1
27.5°	3247.8	2690.0	2220.4	2015.2	1903.7	1840.7	1804.7	1772.3	1759.7	1732.7	1725.5
30°	3418.7	2726.0	2159.2	1952.3	1849.7	1779.5	1757.9	1750.7	1714.7	1686.0	1682.4
32.5°	3613.0	2749.4	2119.6	1887.5	1793.9	1739.9	1750.7	1716.5	1671.6	1646.4	1639.2
35°	3767.8	2758.4	2020.6	1813.7	1756.1	1721.9	1709.4	1702.2	1637.4	1614.0	1596.0
37.5°	4003.5	2738.6	1937.9	1761.5	1714.7	1702.2	1691.4	1642.8	1569.0	1534.8	1509.6
40°	4278.8	2733.2	1831.7	1687.8	1675.2	1689.6	1657.2	1581.6	1479.0	1441.3	1423.3
42.5°	4543.3	2770.9	1765.1	1648.2	1632.0	1637.4	1592.4	1479.0	1428.7	1407.1	1378.3
45°	4985.9	2850.1	1655.4	1587.0	1579.8	1576.2	1522.2	1403.5	1374.7	1347.7	1342.3
47.5°	5385.4	2797.9	1585.2	1524.0	1531.2	1511.4	1396.3	1358.5	1326.1	1299.1	1290.1
50°	5408.7	2673.8	1486.2	1475.4	1477.2	1443.1	1333.3	1308.1	1266.7	1248.7	1236.1
52.5°	5286.4	2470.5	1394.5	1398.1	1403.5	1347.7	1255.9	1237.9	1203.7	1178.6	1171.4
55°	4942.7	2153.8	1304.5	1318.9	1333.3	1227.1	1198.3	1153.4	1126.4	1090.4	1092.2
57.5°	4354.3	1734.5	1178.6	1201.9	1232.5	1115.6	1094.0	1038.2	998.6	969.8	966.2
60°	2918.5	1234.3	989.6	998.6	1067.0	1020.2	1018.4	962.6	908.7	883.5	869.1
62.5°	1721.9	942.8	854.7	845.7	843.9	870.9	915.9	896.1	825.9	777.3	791.7
65°	901.5	815.1	795.3	764.7	746.7	739.5	773.7	782.7	735.9	683.7	680.1
67.5°	757.5	757.5	741.3	730.5	705.3	674.7	653.2	624.4	617.2	602.8	584.8
70°	689.1	707.1	701.7	676.5	655.0	620.8	565.0	518.2	473.2	457.0	467.8
72.5°	601.0	619.0	619.0	606.4	577.6	525.4	471.4	417.4	379.7	350.9	347.3
75°	462.4	471.4	493.0	478.6	440.8	408.4	352.7	296.9	260.9	233.9	228.5
77.5°	295.1	309.5	309.5	307.7	280.7	250.1	214.1	174.5	147.5	127.8	122.4
80°	196.1	205.1	212.3	205.1	187.1	163.7	136.7	109.8	90.0	73.8	70.2
82.5°	143.9	154.7	160.1	152.9	134.9	117.0	97.2	77.4	57.6	45.0	41.4
85°	55.8	57.6	64.8	77.4	75.6	73.8	59.4	43.2	32.4	23.4	21.6
87.5°	14.4	12.6	14.4	14.4	12.6	10.8	10.8	10.8	10.8	5.4	7.2
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)