

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: P652134

Luminaire Tested: **GALN-SA9A-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35533.1 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

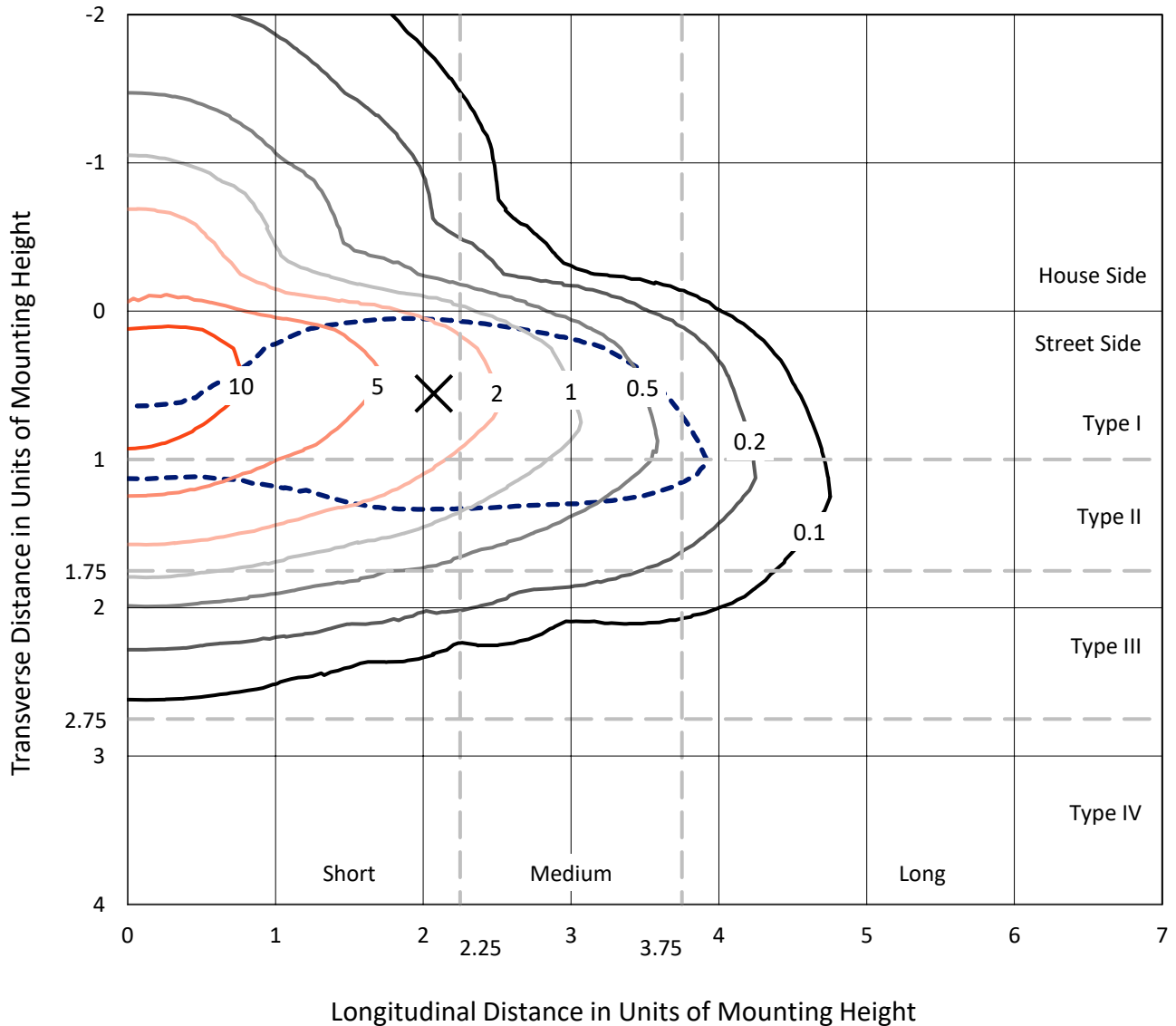
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

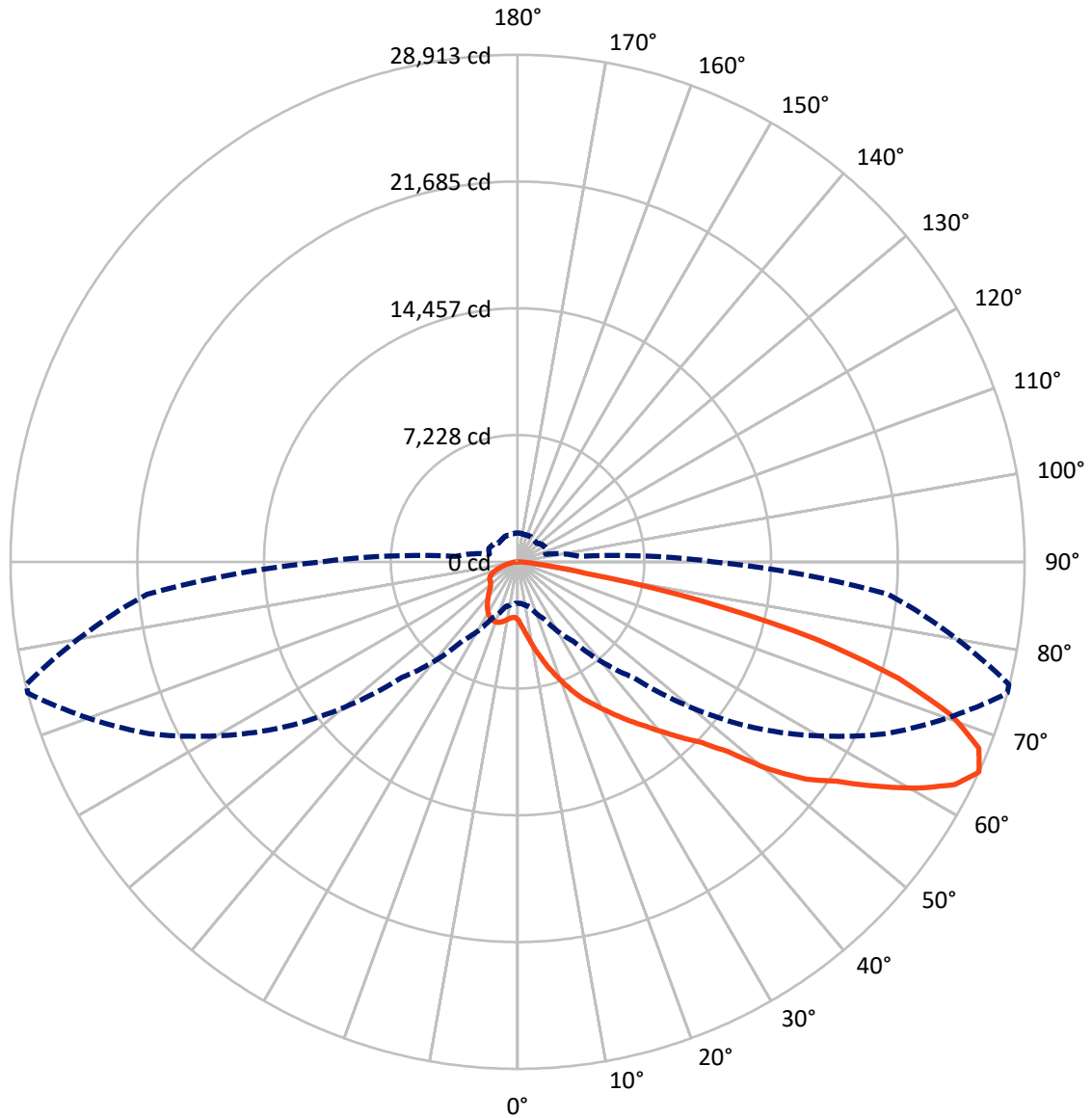
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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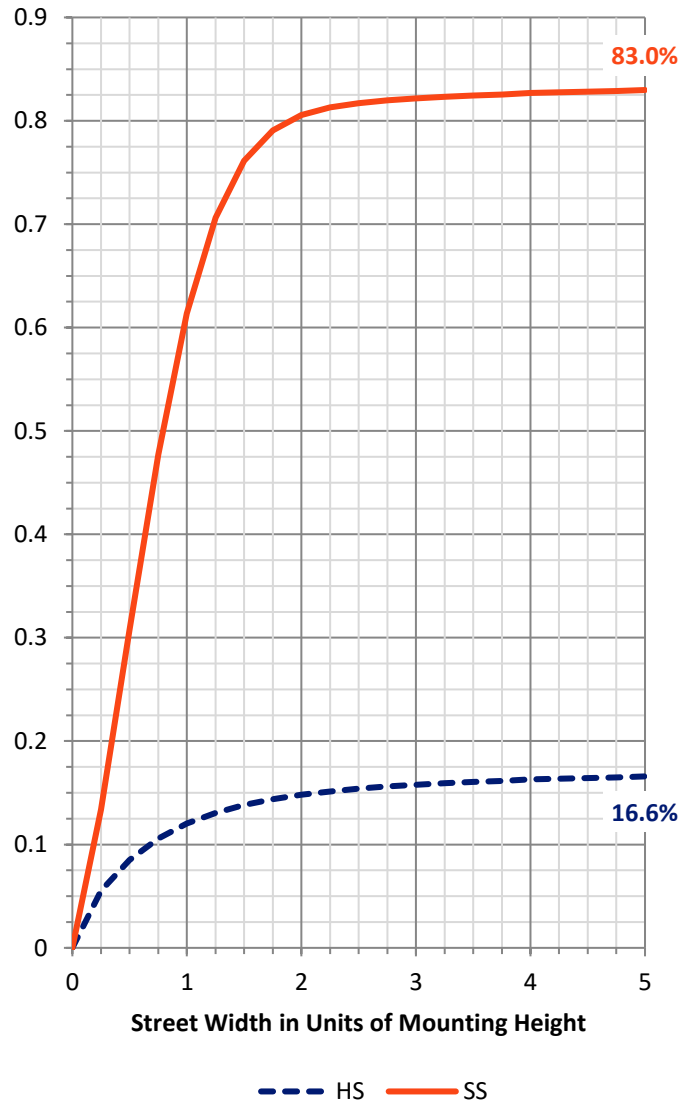
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5973.6	0.0	5973.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	29559.5	0.0	29559.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	35533.1	0.0	35533.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.1	1.1
10°-20°	1571.1	4.4
20°-30°	3034.9	8.5
30°-40°	4929.6	13.9
40°-50°	6781.1	19.1
50°-60°	8006.1	22.5
60°-70°	7014.7	19.7
70°-80°	3348.9	9.4
80°-90°	445.6	1.3
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°	35533.1	100.0
0°-180°	35533.1	100.0

Coefficient of Utilization

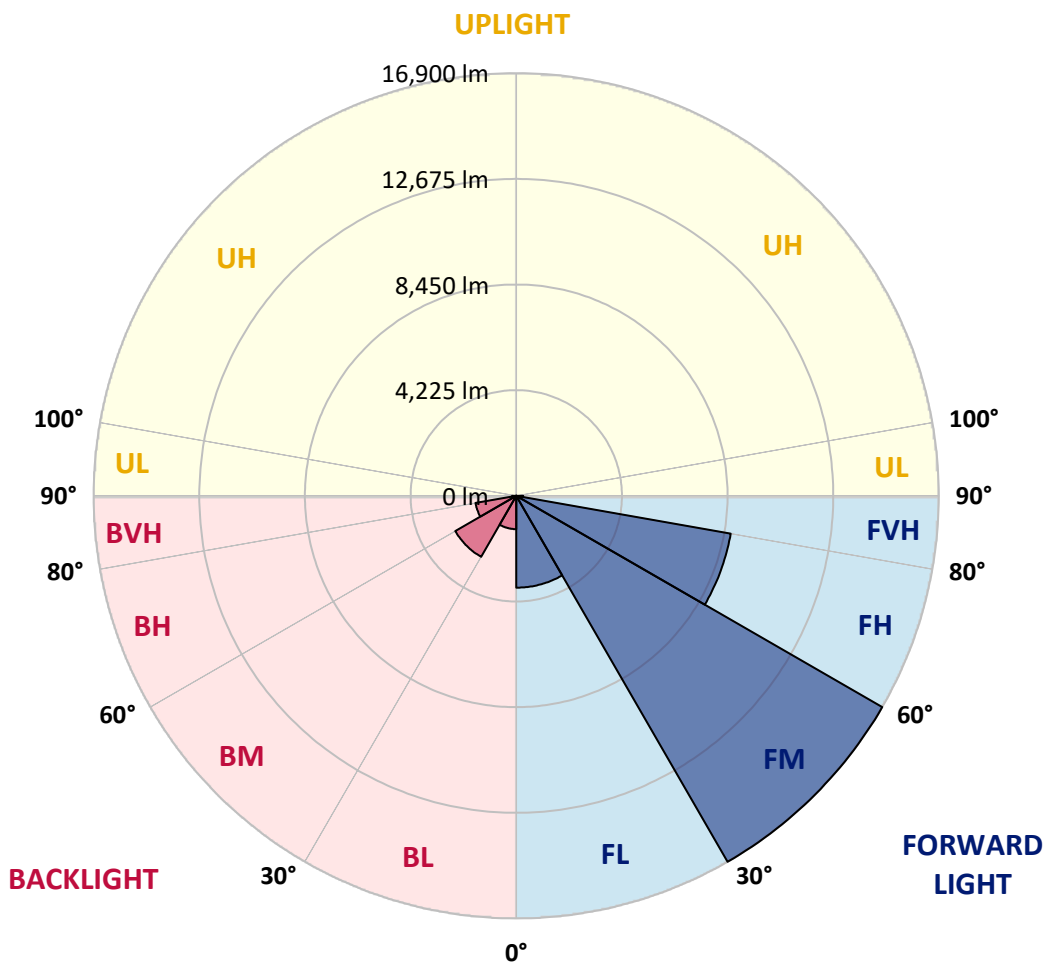


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3673.6	10.3			
FM (30°-60°)	16900.3	47.6			
FH (60°-80°)	8707.2	24.5			G4/12000
FVH (80°-90°)	278.5	0.8			G3/500
BL (0°-30°)	1333.6	3.8	B3/2500		
BM (30°-60°)	2816.5	7.9	B3/5000		
BH (60°-80°)	1656.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	167.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5
2.5°	4386.6	4357.6	4326.8	4242.0	4151.4	4049.2	3902.8	3762.1	3575.2	3569.4	3430.6
5°	5602.7	5583.4	5446.6	5367.5	5157.4	4878.0	4641.0	4272.9	3931.7	3891.2	3621.4
7.5°	6720.5	6645.3	6593.3	6450.7	6242.6	5884.1	5425.4	4928.1	4357.6	4303.6	3856.6
10°	7562.8	7555.0	7528.0	7404.7	7248.6	6892.1	6383.3	5670.1	4897.3	4791.3	4141.8
12.5°	8192.9	8198.7	8194.9	8192.9	8081.2	7778.6	7227.4	6475.8	5442.7	5367.5	4471.3
15°	8607.4	8665.2	8688.3	8784.7	8794.3	8591.9	8117.8	7254.4	6057.6	5945.7	4826.0
17.5°	8881.0	8909.9	9017.9	9181.7	9314.7	9278.1	8856.0	7975.2	6685.8	6498.9	5194.1
20°	9143.1	9193.2	9276.1	9499.7	9734.8	9842.7	9545.9	8713.3	7308.4	7188.9	5600.7
22.5°	9688.6	9759.9	9788.8	9902.5	10102.9	10293.8	10158.9	9420.6	7990.6	7828.7	6032.5
25°	10611.7	10686.9	10605.9	10578.9	10644.5	10739.0	10710.1	10087.5	8634.3	8403.0	6441.1
27.5°	11814.4	11824.0	11666.0	11515.6	11353.8	11305.6	11216.9	10679.2	9193.2	9000.6	6851.5
30°	13105.6	13059.4	12797.3	12525.5	12251.9	11982.1	11727.7	11249.6	9815.7	9594.1	7254.4
32.5°	14304.5	14279.4	13988.4	13566.3	13103.7	12849.3	12334.8	11826.0	10482.6	10268.7	7668.7
35°	15202.6	15239.2	14919.3	14458.6	13953.7	13728.2	13078.7	12431.1	11172.6	10939.4	8119.8
37.5°	15840.5	15821.2	15537.9	15139.0	14695.7	14499.1	13947.9	13092.2	11914.6	11691.0	8613.1
40°	16068.0	16056.4	15846.3	15555.3	15273.9	15204.5	14857.6	13805.3	12764.5	12502.4	9206.8
42.5°	15923.4	15948.5	15809.7	15730.7	15678.6	15728.7	15761.5	14740.0	13691.6	13450.6	9850.5
45°	15480.1	15466.6	15447.3	15576.5	15869.4	16199.0	16655.8	15622.8	14699.6	14506.8	10713.9
47.5°	14688.0	14784.4	14832.5	15189.0	15829.0	16609.5	17685.0	16806.1	16162.3	15994.7	12030.3
50°	13579.8	13656.9	13942.1	14576.2	15530.2	16763.7	18691.0	18741.1	18602.3	18288.2	13460.3
52.5°	11849.1	11968.5	12556.4	13718.6	14917.3	16700.1	19300.0	20400.6	20583.6	20348.5	14869.1
55°	9912.1	10079.8	10700.4	12224.9	14073.2	16353.2	19720.2	21362.2	22092.7	21874.9	16226.0
57.5°	8015.7	8192.9	8830.9	10307.2	12600.7	15586.1	19995.8	22433.8	24147.2	23863.9	17914.3
60°	6007.4	6192.5	6739.8	8260.4	10503.8	14086.7	19808.8	23362.8	26199.8	26078.4	19604.6
62.5°	3875.8	4080.1	4556.1	5814.7	8073.5	12037.9	18808.5	23875.5	27976.8	27830.3	20838.0
65°	2360.9	2384.1	2646.2	3609.8	5525.6	9320.5	16520.9	23195.1	28913.4	28869.1	21213.8
67.5°	1526.4	1563.1	1682.5	2162.5	3313.0	6473.8	13209.8	20949.8	28366.1	28350.6	20437.1
70°	1289.3	1300.9	1354.9	1459.0	1925.4	3926.0	9276.1	17370.8	26286.5	26286.5	18569.6
72.5°	1152.5	1168.0	1187.2	1220.0	1374.2	2224.1	5535.2	13521.9	22695.9	22846.3	15805.8
75°	1046.5	1042.7	1054.3	1060.0	1171.8	1453.2	2862.0	10000.8	17557.7	17257.1	11446.3
77.5°	896.2	902.0	896.2	921.2	1034.9	1106.3	1453.2	6710.8	10640.7	10251.4	5745.3
80°	736.2	745.9	755.5	770.9	884.6	840.3	873.0	3058.6	3935.5	3852.7	1775.0
82.5°	553.1	566.7	582.1	618.6	695.8	555.1	551.2	1306.7	1420.4	1300.9	653.4
85°	223.5	264.1	399.0	435.6	437.5	304.5	339.2	545.4	580.1	566.7	256.3
87.5°	52.1	61.6	129.1	194.7	179.2	113.7	125.3	177.3	202.3	187.0	86.7
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°	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5
2.5°	3367.0	3299.6	3183.9	3095.2	3031.6	2975.8	2941.1	2919.9	2912.1	2910.2	2912.1
5°	3480.7	3361.2	3178.1	3062.5	2998.9	2962.3	2941.1	2939.1	2941.1	2943.0	2937.2
7.5°	3636.8	3465.3	3226.3	3118.3	3070.2	3043.2	3033.6	3029.7	3031.6	3029.7	3029.7
10°	3845.0	3609.8	3320.8	3209.0	3168.5	3137.7	3122.2	3112.6	3104.9	3097.2	3093.3
12.5°	4074.3	3769.8	3422.9	3315.0	3257.1	3209.0	3174.3	3149.2	3131.9	3114.6	3110.7
15°	4330.6	3939.4	3536.6	3386.3	3303.4	3232.1	3172.3	3131.9	3101.0	3076.0	3074.0
17.5°	4575.5	4099.4	3613.7	3419.0	3297.6	3197.4	3118.3	3062.5	3023.9	2991.2	2987.3
20°	4837.5	4251.7	3648.4	3397.8	3239.8	3118.3	3014.3	2946.9	2902.5	2865.9	2860.2
22.5°	5101.6	4380.8	3644.6	3330.4	3139.6	2997.0	2887.1	2815.8	2763.8	2727.1	2713.7
25°	5354.1	4484.8	3596.4	3222.5	3000.8	2852.4	2740.7	2675.1	2628.9	2584.5	2584.5
27.5°	5581.5	4546.5	3505.8	3091.4	2858.2	2702.0	2613.4	2553.7	2511.3	2482.4	2465.1
30°	5805.0	4575.5	3382.4	2925.7	2707.9	2574.9	2503.6	2468.8	2430.3	2397.6	2393.7
32.5°	6005.5	4569.7	3228.3	2763.8	2565.2	2470.8	2441.9	2414.9	2374.5	2328.2	2316.6
35°	6200.1	4531.1	3045.2	2586.4	2445.7	2409.1	2416.9	2378.3	2305.1	2247.2	2237.6
37.5°	6412.1	4461.7	2844.7	2441.9	2345.5	2380.2	2399.5	2314.7	2195.2	2104.6	2083.4
40°	6656.9	4382.7	2636.5	2297.4	2266.5	2353.2	2353.2	2197.1	2033.3	1977.4	1962.0
42.5°	6944.1	4317.2	2463.1	2175.9	2201.0	2287.7	2278.1	2041.0	1973.6	1944.6	1936.9
45°	7398.9	4294.1	2283.8	2070.0	2147.0	2210.7	2131.6	1987.0	1948.5	1925.4	1917.6
47.5°	8117.8	4321.1	2125.8	1990.9	2085.3	2133.5	1967.8	1950.4	1923.5	1890.7	1886.9
50°	8784.7	4296.0	2014.0	1946.6	2031.4	2041.0	1900.3	1906.1	1890.7	1854.1	1846.3
52.5°	9330.1	4216.9	1942.7	1923.5	1985.1	1879.1	1836.7	1857.9	1852.1	1805.9	1798.1
55°	9929.4	4168.8	1908.1	1923.5	1954.3	1738.4	1776.9	1807.8	1800.1	1767.4	1765.4
57.5°	10656.1	4178.4	1883.0	1929.3	1923.5	1667.1	1717.2	1753.8	1751.9	1742.3	1742.3
60°	11400.0	4182.3	1844.4	1927.3	1886.9	1611.2	1655.6	1707.6	1711.4	1717.2	1717.2
62.5°	11646.7	4014.6	1769.3	1892.6	1805.9	1557.3	1597.7	1669.0	1665.2	1680.6	1682.5
65°	11186.1	3550.1	1657.4	1813.6	1701.8	1518.7	1553.4	1618.9	1597.7	1638.2	1645.9
67.5°	10182.0	2937.2	1484.0	1671.0	1586.2	1478.2	1524.5	1549.5	1511.0	1590.0	1591.9
70°	8800.1	2293.5	1264.3	1468.6	1455.1	1435.8	1501.4	1462.8	1408.8	1505.2	1486.0
72.5°	7358.4	1751.9	1009.9	1200.7	1279.7	1372.3	1460.9	1351.1	1275.9	1304.8	1270.1
75°	5527.5	1295.1	811.4	940.5	1065.8	1281.7	1424.3	1216.2	1100.5	1073.5	1065.8
77.5°	2817.7	846.0	607.1	703.5	799.8	1158.3	1374.2	1058.1	911.6	869.2	849.9
80°	1006.1	526.1	427.9	485.7	539.7	996.4	1200.7	875.0	707.3	699.6	707.3
82.5°	466.4	339.2	287.2	318.0	319.9	664.9	915.4	653.4	537.7	817.2	690.0
85°	200.4	169.6	161.9	158.0	146.5	296.8	514.6	350.8	547.3	244.7	225.5
87.5°	59.7	67.4	59.7	44.3	32.8	32.8	52.1	19.3	13.5	9.7	9.7
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)