

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: P647957

Luminaire Tested: **GALN-SA5A-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15288.9 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

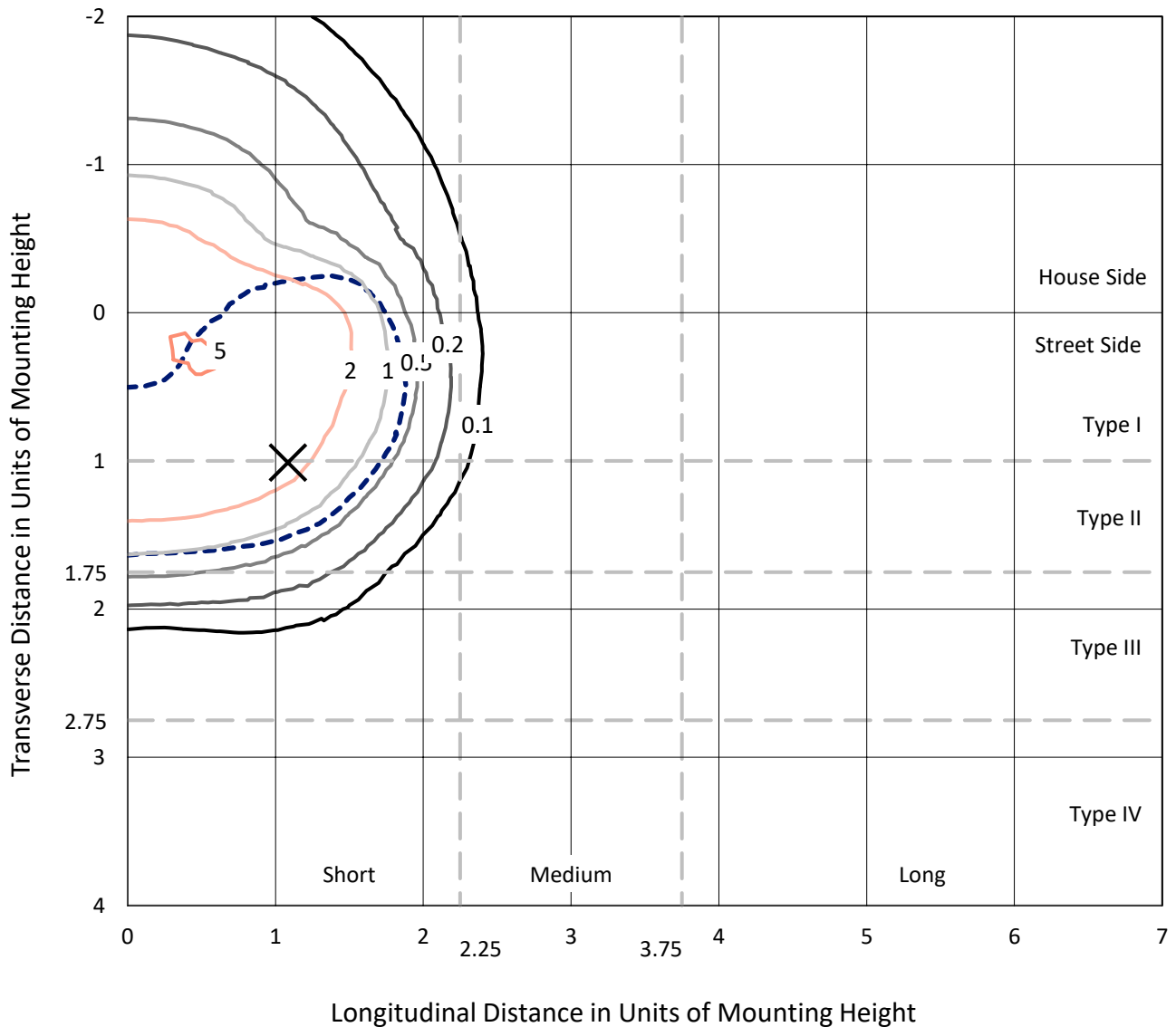
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

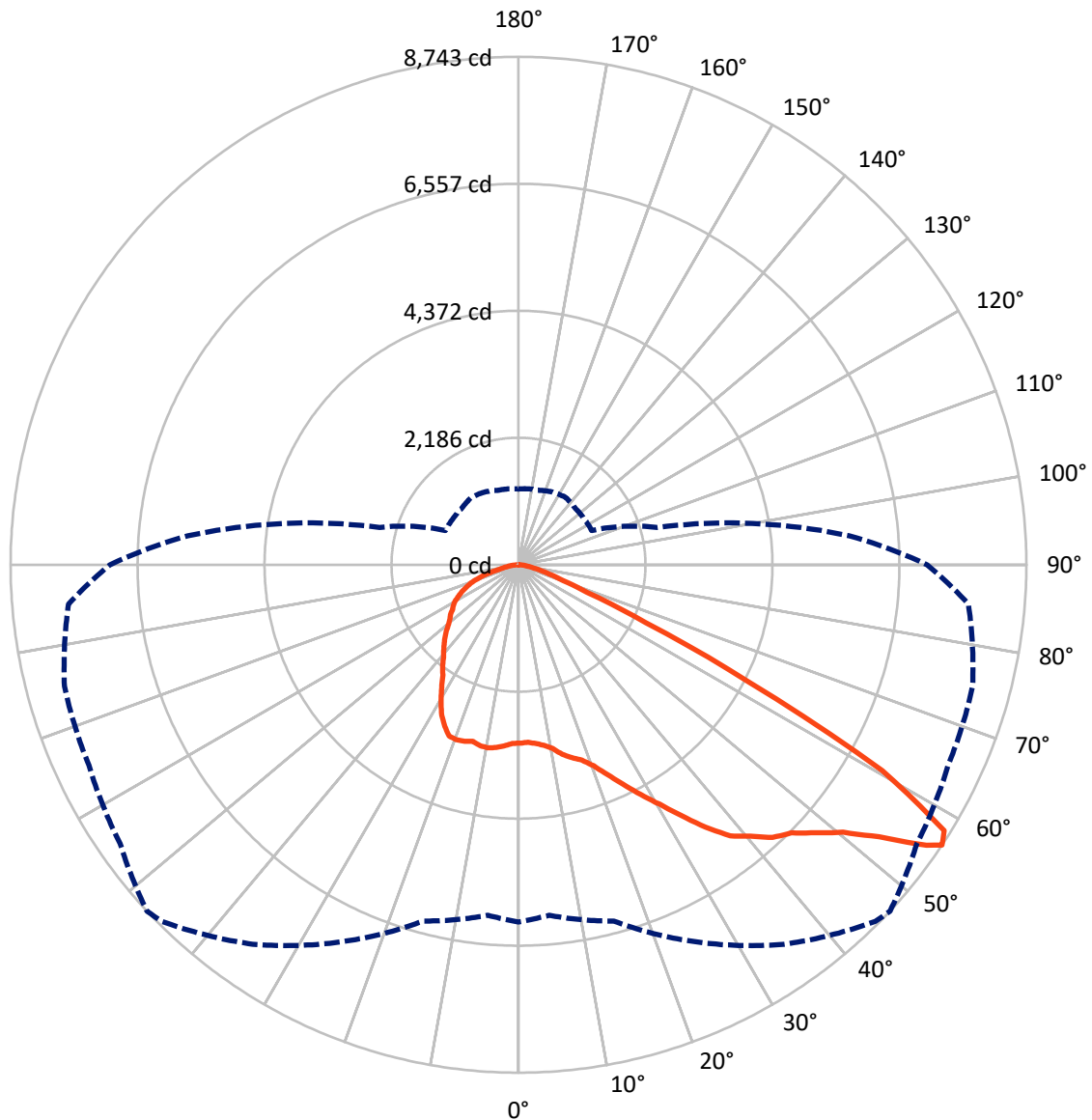
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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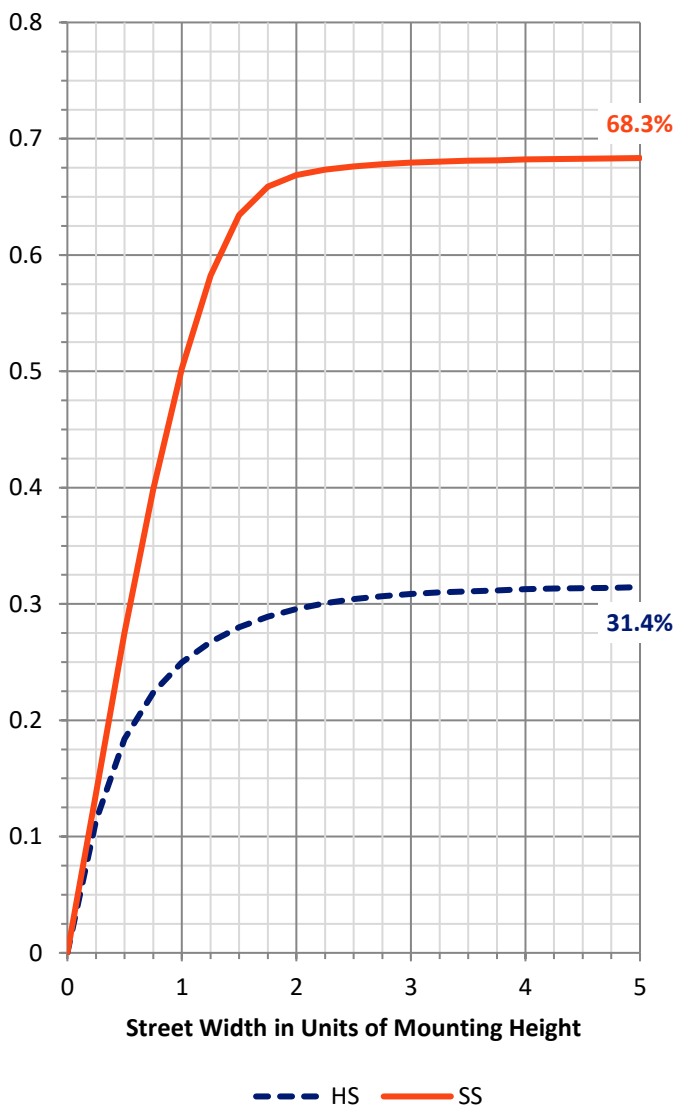
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4844.8	0.0	4844.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	10444.0	0.0	10444.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	15288.9	0.0	15288.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.2	2.0
10°-20°	943.9	6.2
20°-30°	1668.6	10.9
30°-40°	2506.2	16.4
40°-50°	3439.6	22.5
50°-60°	4097.8	26.8
60°-70°	1753.6	11.5
70°-80°	496.3	3.2
80°-90°	83.5	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°	15288.9	100.0
0°-180°	15288.9	100.0

Coefficient of Utilization

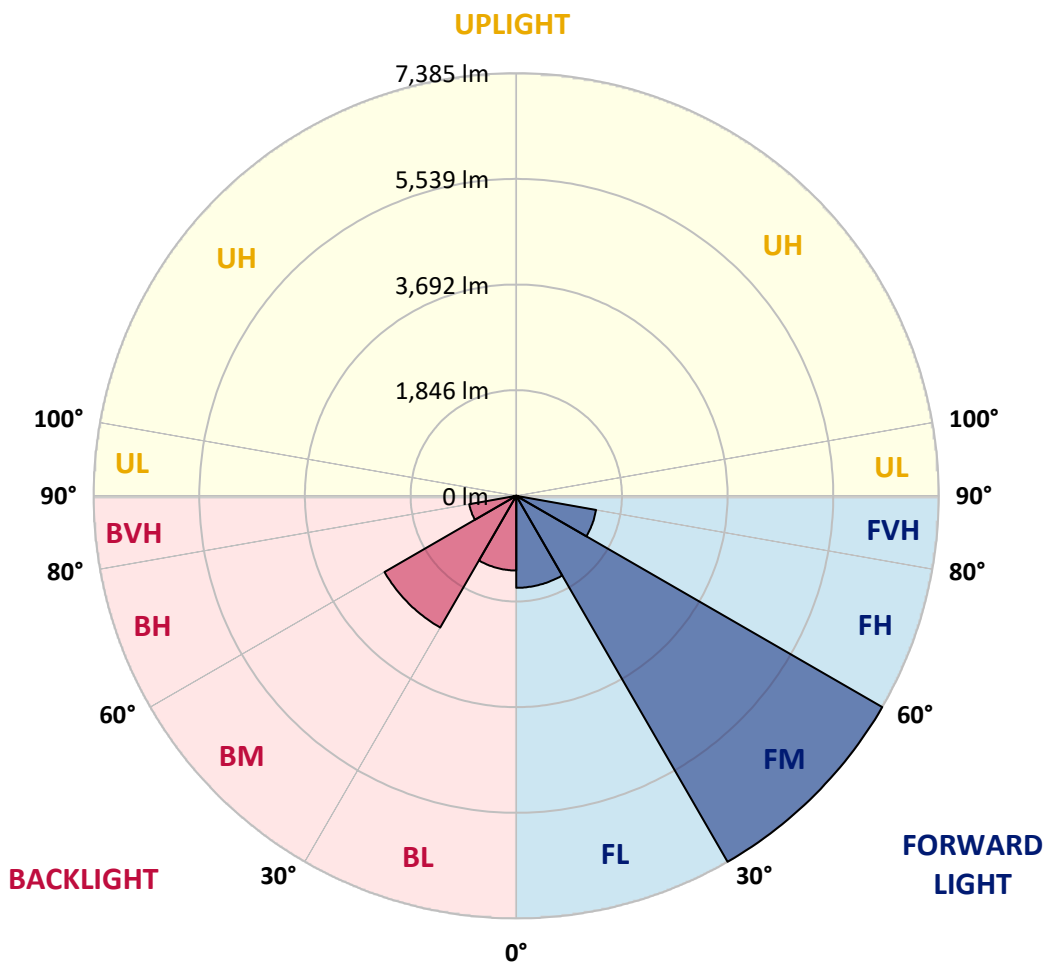


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1607.4	10.5			
FM (30°-60°)	7384.9	48.3			
FH (60°-80°)	1416.3	9.3			G1/1800
FVH (80°-90°)	35.5	0.2			G1/100
BL (0°-30°)	1304.4	8.5	B3/2500		
BM (30°-60°)	2658.8	17.4	B3/5000		
BH (60°-80°)	833.6	5.5	B2/1000		G2/1000
BVH (80°-90°)	48.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3071.1	3071.1	3071.1	3071.1	3071.1	3071.1	3071.1	3071.1	3071.1	3071.1	3071.1
2.5°	3059.3	3053.5	3049.6	3080.8	3069.1	3071.1	3059.3	3071.1	3078.8	3061.3	3086.7
5°	3053.5	3071.1	3055.5	3065.2	3090.6	3082.7	3090.6	3114.0	3108.1	3102.2	3094.5
7.5°	3108.1	3110.1	3121.7	3125.7	3133.5	3125.7	3137.3	3158.8	3153.0	3119.8	3123.7
10°	3186.1	3190.0	3192.0	3213.4	3227.1	3229.0	3215.4	3195.9	3193.9	3238.7	3207.6
12.5°	3275.8	3266.0	3289.5	3297.3	3312.9	3330.4	3348.0	3307.0	3332.4	3334.3	3297.3
15°	3406.4	3416.2	3388.9	3388.9	3394.8	3396.7	3445.4	3425.9	3422.0	3400.6	3416.2
17.5°	3601.4	3535.2	3533.2	3505.9	3502.0	3517.6	3535.2	3550.7	3603.4	3560.5	3476.7
20°	3743.8	3759.3	3702.8	3669.7	3675.6	3710.6	3693.1	3763.3	3800.3	3730.1	3648.2
22.5°	3995.3	3942.6	3956.3	3882.2	3888.1	3925.1	3923.1	3995.3	4016.8	3905.6	3786.7
25°	4164.9	4151.3	4163.0	4104.5	4112.3	4141.5	4188.3	4307.3	4272.2	4149.4	3874.4
27.5°	4412.6	4385.3	4375.6	4354.1	4346.3	4424.3	4478.9	4605.6	4580.3	4400.9	4030.4
30°	4666.1	4648.5	4658.3	4570.5	4601.7	4767.5	4783.0	4956.6	4944.9	4629.0	4203.9
32.5°	4841.5	4851.3	4868.9	4820.1	4958.6	5091.1	5143.8	5340.8	5350.5	5021.0	4539.4
35°	5124.3	5091.1	5100.9	5157.5	5221.8	5463.5	5549.4	5680.0	5761.9	5432.4	4861.1
37.5°	5301.8	5336.8	5295.9	5385.6	5553.3	5843.8	5921.8	6056.3	6142.2	5838.0	5299.8
40°	5578.6	5522.1	5551.3	5615.7	5787.2	6165.5	6144.1	6282.6	6309.8	6183.1	5709.2
42.5°	5877.0	5849.6	5808.7	5954.9	6099.3	6374.2	6417.1	6352.7	6491.1	6520.4	6294.2
45°	6233.8	6266.9	6272.8	6276.7	6403.5	6643.3	6584.8	6528.2	6688.1	6900.7	6656.9
47.5°	6565.2	6460.0	6536.0	6641.3	6820.7	6822.7	6890.9	6756.4	6926.0	7115.1	6984.5
50°	6676.4	6625.7	6727.1	6926.0	7202.9	7232.1	7239.9	7048.8	7136.6	7286.8	7097.6
52.5°	6633.5	6616.0	6875.3	7183.4	7588.9	7737.1	7776.1	7540.2	7588.9	7520.7	7347.1
55°	6428.7	6481.4	6742.7	7370.5	7992.6	8450.8	8524.9	8226.6	7916.5	7969.1	7778.1
56°	6148.0	6056.3	6348.8	7158.0	7975.0	8682.8	8743.3	8370.8	8160.3	8092.0	7774.2
57.5°	5216.0	5097.0	5481.2	6440.5	7532.4	8595.1	8639.9	8431.3	8119.3	7980.9	7206.7
60°	3053.5	3112.0	3599.5	4441.8	5810.6	7046.8	7197.0	7349.1	7140.5	6520.4	5364.1
62.5°	1474.1	1437.0	1786.1	2546.6	3541.0	4498.4	4453.5	4880.6	5114.6	4632.9	3386.9
65°	772.1	768.3	974.9	1390.3	1946.0	2363.3	2404.2	2634.3	2956.1	2386.7	1719.8
67.5°	567.4	583.0	686.4	976.9	1251.9	1277.2	1271.4	1386.4	1417.5	1199.2	1056.8
70°	444.6	452.3	528.4	742.9	932.1	834.5	817.0	830.7	922.3	961.3	914.5
72.5°	321.7	329.6	393.8	501.1	583.0	569.4	581.1	657.1	770.2	811.2	762.4
75°	214.5	220.3	255.4	306.2	345.1	372.4	393.8	481.6	586.9	610.3	586.9
77.5°	148.2	154.0	177.4	216.4	220.3	237.9	245.7	286.7	350.9	380.2	364.6
80°	83.9	83.9	95.5	111.1	136.5	159.9	163.8	196.9	226.2	245.7	249.6
82.5°	39.0	41.0	50.7	68.3	89.7	111.1	115.0	136.5	157.9	177.4	183.3
85°	19.5	21.5	29.3	41.0	54.6	66.3	64.4	66.3	70.2	66.3	68.3
87.5°	5.9	5.9	7.8	9.8	7.8	9.8	9.8	11.7	13.6	15.6	17.5
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°	3071.1	3071.1	3071.1	3071.1	3071.1	3071.1	3071.1	3071.1	3071.1	3071.1	3071.1
2.5°	3088.6	3094.5	3055.5	3092.5	3078.8	3077.0	3104.2	3100.3	3110.1	3106.2	3082.7
5°	3090.6	3077.0	3117.8	3080.8	3098.3	3135.4	3110.1	3168.6	3139.3	3158.8	3115.9
7.5°	3151.0	3154.9	3147.1	3162.7	3154.9	3172.5	3158.8	3172.5	3149.1	3151.0	3190.0
10°	3203.6	3192.0	3205.6	3186.1	3199.7	3193.9	3162.7	3153.0	3160.7	3151.0	3176.4
12.5°	3301.1	3279.7	3270.0	3246.6	3231.0	3172.5	3123.7	3096.5	3133.5	3139.3	3127.6
15°	3400.6	3402.5	3357.7	3305.0	3207.6	3119.8	3131.5	3141.2	3141.2	3156.9	3127.6
17.5°	3463.0	3463.0	3422.0	3316.8	3217.3	3166.6	3154.9	3123.7	3096.5	3092.5	3090.6
20°	3572.2	3539.0	3445.4	3314.8	3213.4	3190.0	3102.2	3028.2	2971.6	2952.1	2950.2
22.5°	3697.0	3613.2	3482.5	3318.7	3207.6	3174.4	3010.6	2899.4	2798.1	2755.2	2761.0
25°	3812.0	3677.5	3503.9	3301.1	3186.1	3026.2	2842.9	2688.9	2583.6	2548.5	2531.0
27.5°	3892.0	3745.7	3503.9	3316.8	3106.2	2860.5	2673.3	2476.3	2384.7	2361.3	2365.2
30°	3999.3	3831.5	3564.4	3283.6	2946.3	2646.0	2421.7	2293.1	2238.4	2218.9	2232.6
32.5°	4250.8	4055.8	3648.2	3203.6	2757.1	2431.5	2250.2	2178.0	2098.0	2059.1	2045.4
35°	4523.7	4268.3	3730.1	3069.1	2544.6	2236.5	2123.4	2057.1	1961.6	1918.7	1926.5
37.5°	4909.8	4541.2	3736.0	2846.8	2314.5	2127.3	2024.0	1920.6	1842.6	1776.3	1756.8
40°	5430.4	4913.7	3722.3	2612.9	2129.3	1998.6	1922.6	1793.9	1706.2	1659.3	1669.1
42.5°	5888.6	5350.5	3665.8	2347.7	1961.6	1910.9	1825.1	1698.3	1612.6	1563.8	1559.9
45°	6274.7	5672.2	3558.5	2121.5	1821.2	1813.4	1714.0	1616.4	1548.2	1503.4	1522.9
47.5°	6631.5	5931.5	3396.7	1895.3	1692.5	1708.1	1612.6	1552.1	1509.2	1468.3	1466.3
50°	6760.3	5927.6	3254.4	1708.1	1589.2	1581.3	1577.4	1513.1	1468.3	1433.2	1448.8
52.5°	6974.7	5993.9	3100.3	1579.4	1495.5	1497.5	1511.2	1464.4	1413.6	1392.3	1411.7
55°	7282.8	6003.7	2761.0	1429.3	1417.5	1431.2	1431.2	1400.0	1357.1	1339.6	1329.8
56°	7031.3	5713.2	2476.3	1390.3	1378.5	1378.5	1415.6	1380.5	1327.9	1314.2	1302.5
57.5°	6485.3	5005.3	2072.8	1343.5	1325.9	1353.2	1372.8	1335.6	1286.9	1267.4	1279.1
60°	4473.0	3386.9	1557.9	1242.1	1242.1	1286.9	1302.5	1247.9	1226.5	1224.5	1209.0
62.5°	2610.9	1973.3	1218.7	1150.5	1154.3	1191.4	1203.1	1171.9	1144.6	1177.7	1193.3
65°	1384.4	1177.7	1045.1	1052.9	1054.9	1084.1	1134.8	1132.8	1131.0	1140.7	1142.6
67.5°	1002.2	978.8	949.6	941.8	945.7	967.2	1017.8	1056.8	1054.9	1031.5	1013.9
70°	893.0	859.9	842.4	844.3	828.7	854.0	895.0	920.3	875.5	848.2	836.5
72.5°	742.9	733.1	721.5	723.4	692.2	686.4	639.6	639.6	627.9	620.1	633.7
75°	567.4	563.5	569.4	559.6	526.5	491.3	464.1	438.7	399.7	384.1	376.3
77.5°	358.8	370.5	384.1	362.7	349.1	323.7	296.4	271.0	239.8	222.3	222.3
80°	243.7	253.5	263.2	259.3	243.7	220.3	198.9	171.6	150.2	136.5	134.5
82.5°	185.3	193.0	206.7	191.1	175.5	156.0	138.4	118.9	99.4	83.9	83.9
85°	66.3	76.0	83.9	91.6	97.5	99.4	85.8	70.2	56.5	44.9	42.9
87.5°	17.5	19.5	21.5	19.5	19.5	19.5	21.5	19.5	17.5	13.6	13.6
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)