

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: P648553

Luminaire Tested: **GALN-SA7B-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18305.7 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

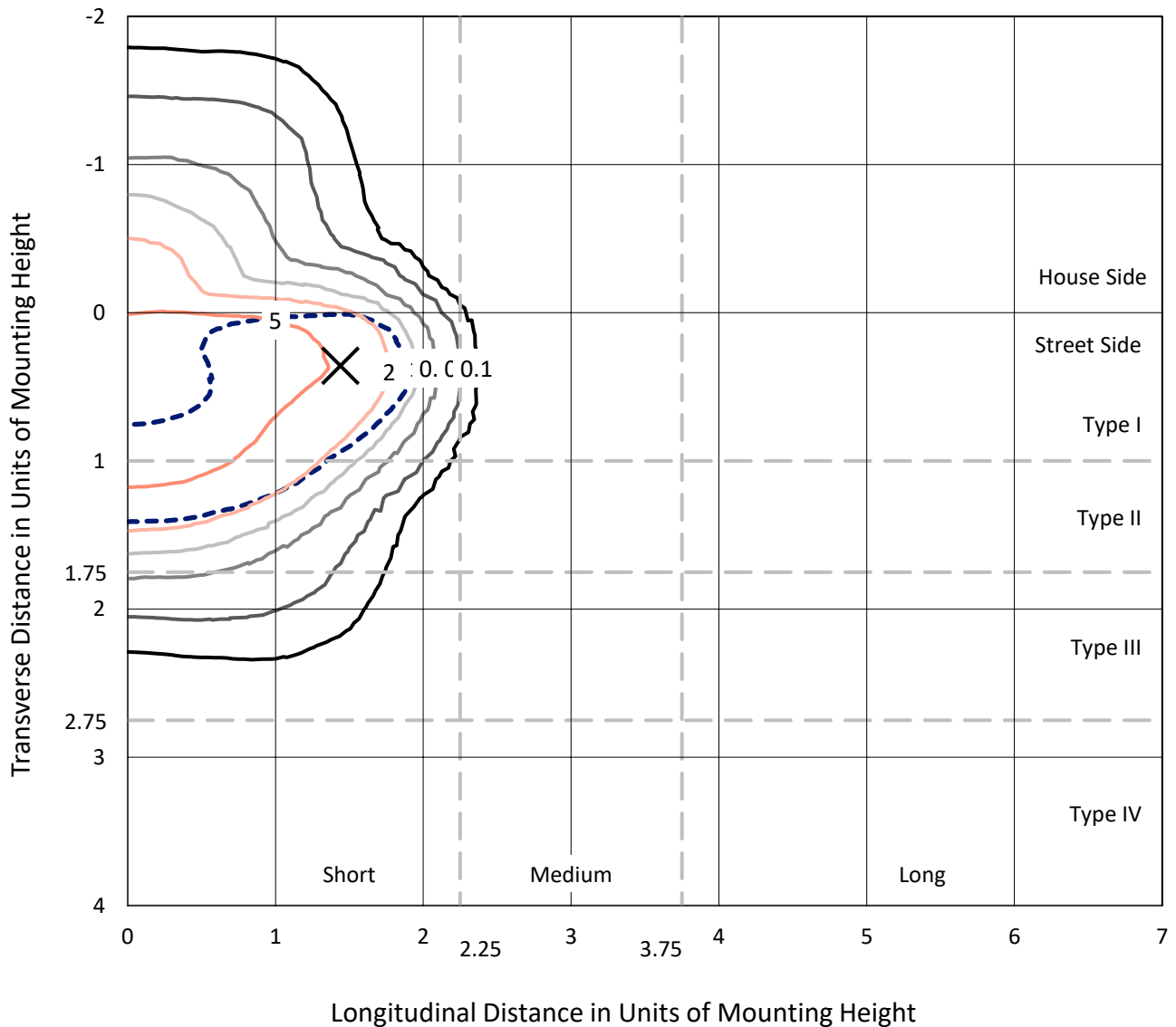
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

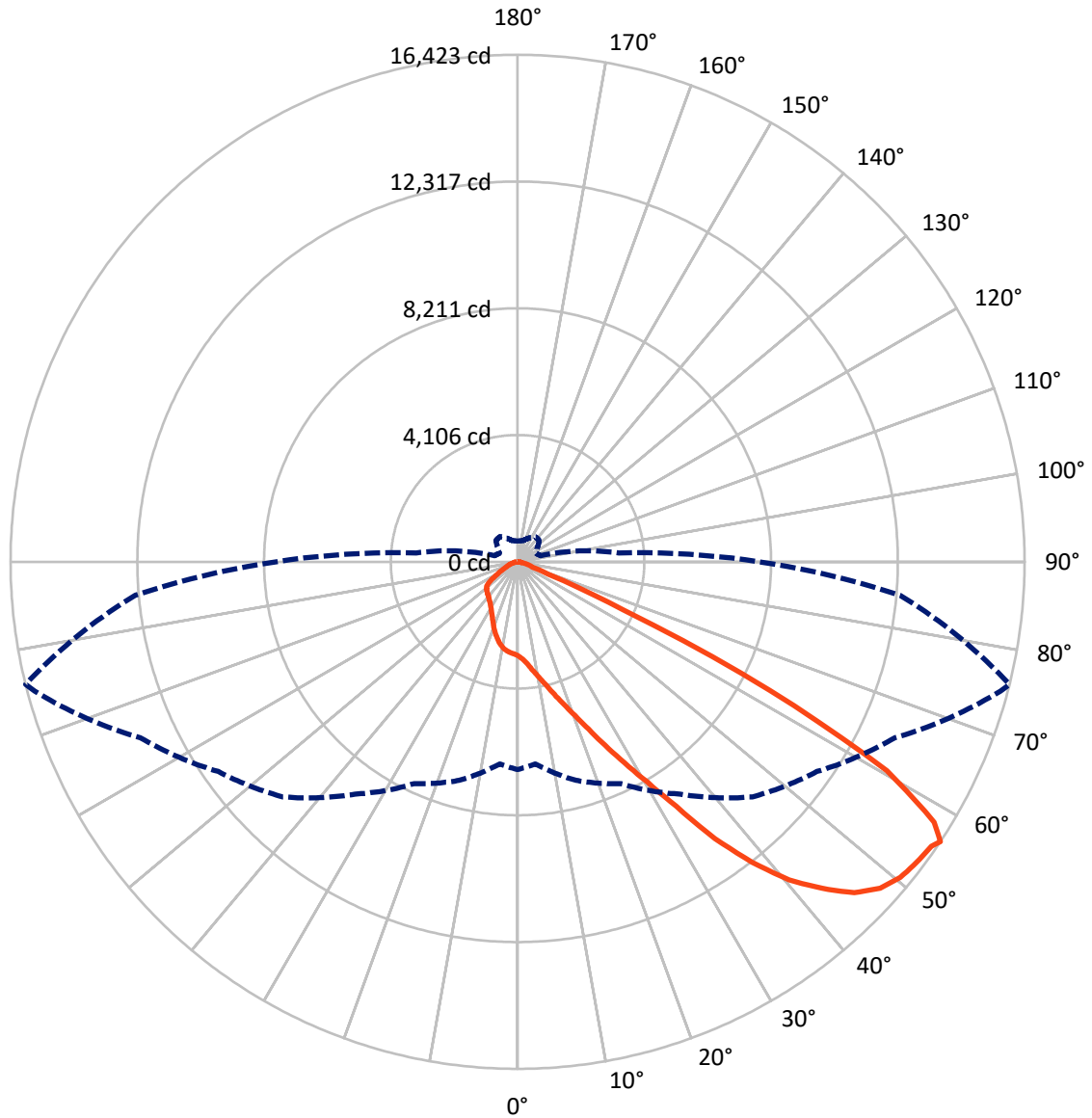
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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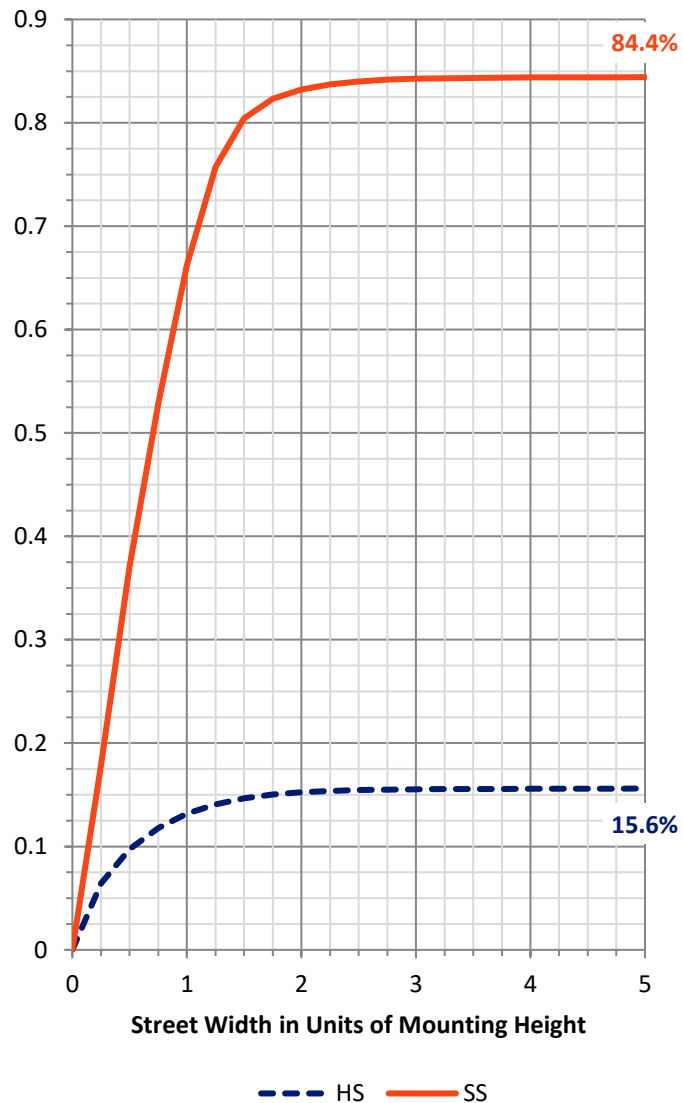
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2875.7	0.0	2875.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	15430.0	0.0	15430.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	18305.7	0.0	18305.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.9	1.7
10°-20°	986.1	5.4
20°-30°	1788.1	9.8
30°-40°	3083.6	16.8
40°-50°	5009.4	27.4
50°-60°	5280.1	28.8
60°-70°	1613.3	8.8
70°-80°	206.8	1.1
80°-90°	31.4	0.2
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°	18305.7	100.0
0°-180°	18305.7	100.0

Coefficient of Utilization



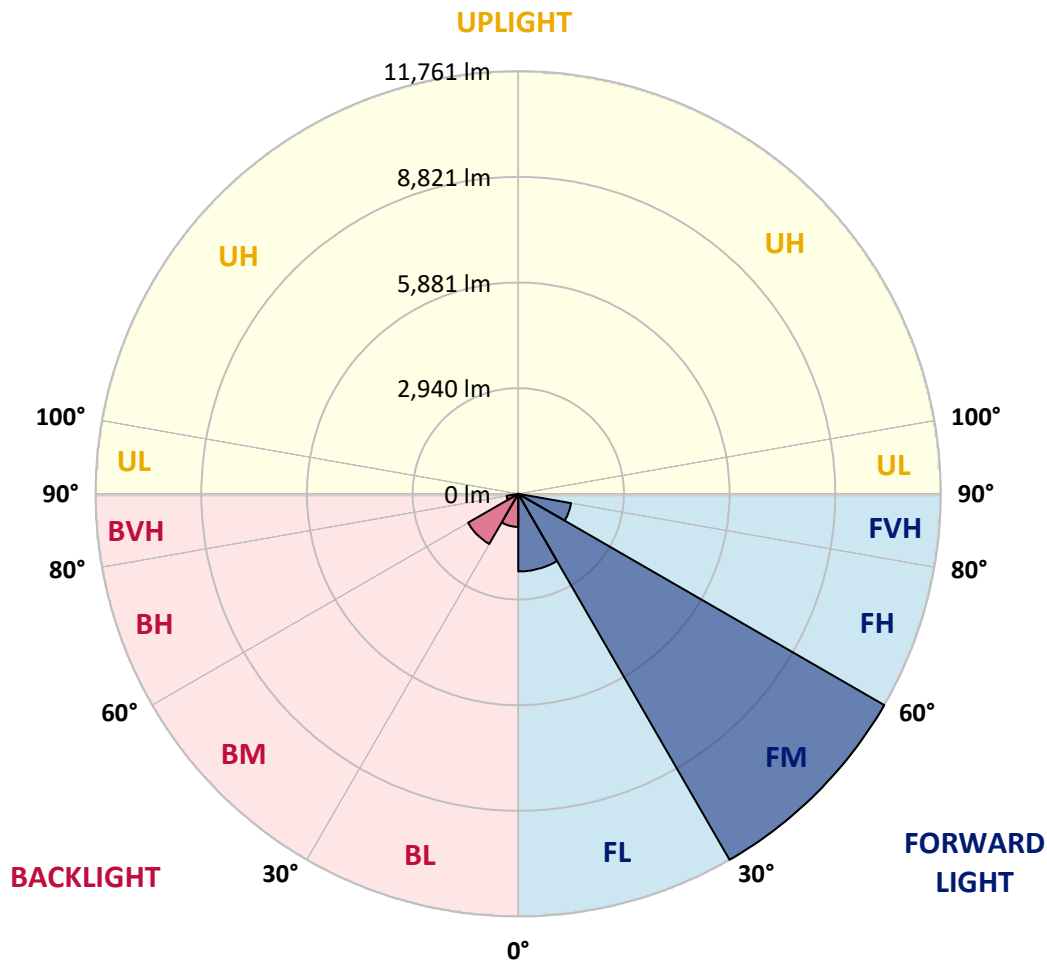
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2161.2	11.8			
FM (30°-60°)	11761.4	64.2			
FH (60°-80°)	1492.0	8.2			G1/1800
FVH (80°-90°)	15.4	0.1			G1/100
BL (0°-30°)	920.0	5.0	B2/1000		
BM (30°-60°)	1611.7	8.8	B2/2500		
BH (60°-80°)	328.1	1.8	B1/500		G1/500
BVH (80°-90°)	16.0	0.1			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°	76°	85°
0°	3047.0	3047.0	3047.0	3047.0	3047.0	3047.0	3047.0	3047.0	3047.0	3047.0	3047.0
2.5°	3509.3	3428.3	3431.7	3424.9	3414.8	3377.7	3266.4	3249.5	3175.2	3155.0	3087.5
5°	3931.1	3860.3	3900.7	3840.0	3782.6	3748.8	3566.6	3482.3	3364.2	3320.3	3225.9
7.5°	4194.3	4160.5	4147.1	4150.4	4096.4	4012.1	3931.1	3745.5	3586.9	3553.2	3354.1
10°	4322.6	4302.3	4322.6	4312.4	4336.0	4346.1	4204.4	4093.1	3860.3	3802.9	3492.4
12.5°	4352.9	4393.4	4410.2	4454.1	4511.5	4609.4	4599.2	4447.4	4136.9	4099.8	3705.0
15°	4427.2	4460.8	4444.0	4514.9	4622.8	4788.2	4875.9	4852.3	4518.2	4450.7	3951.3
17.5°	4494.6	4433.9	4491.2	4632.9	4740.9	4994.0	5206.6	5304.4	4933.3	4855.7	4177.4
20°	4585.7	4568.8	4558.7	4629.6	4821.9	5159.3	5581.1	5760.0	5398.9	5318.0	4501.4
22.5°	4862.4	4865.8	4859.1	4754.5	4892.8	5274.1	5908.4	6350.5	5955.7	5888.2	4869.2
25°	5226.8	5183.0	5149.2	5064.8	5048.0	5378.7	6239.1	7072.6	6623.8	6576.6	5267.3
27.5°	5611.5	5611.5	5510.3	5432.7	5324.7	5638.5	6542.8	7774.5	7430.3	7366.2	5614.9
30°	6030.0	6053.5	6040.1	5874.7	5807.2	5922.0	6853.3	8672.0	8354.8	8273.9	6188.5
32.5°	6647.4	6596.9	6654.2	6515.8	6316.8	6418.0	7342.6	9475.1	9556.1	9441.4	6941.0
35°	7464.0	7433.6	7396.5	7170.5	6934.2	7015.2	8034.3	10463.8	11064.4	11007.1	7700.3
37.5°	8196.3	8179.4	8149.0	7993.8	7720.5	7818.3	8820.5	11493.0	12535.7	12346.7	8773.3
40°	8965.6	9056.7	8958.9	8820.5	8570.8	8786.7	9745.1	12103.7	13774.0	13544.6	9593.2
42.5°	10008.2	9937.4	9981.3	9728.2	9593.2	9829.4	10673.0	12714.5	14735.7	14462.4	10463.8
45°	11118.4	11121.8	11003.7	10922.7	10571.8	10828.3	11243.3	13051.9	15501.7	15289.1	11121.8
47.5°	11830.4	11827.1	11955.2	12083.5	11722.4	11469.4	11631.3	13372.5	15896.5	15798.6	11361.4
50°	11719.1	11752.8	11918.1	12397.3	12586.3	12245.4	11995.7	13278.0	16075.3	16065.2	11567.2
52.5°	10193.9	10305.2	10581.9	11273.6	12225.2	12647.0	12377.0	13453.4	16163.1	16179.9	11874.3
55°	7760.9	7821.7	8348.1	9188.3	10241.1	11685.3	12225.2	13591.8	16230.5	16260.9	12245.4
56°	6731.8	6569.8	7329.0	7926.3	9184.9	10764.1	11840.5	13483.8	16190.0	16422.9	12431.1
57.5°	5081.7	4973.8	5587.9	6333.6	7545.0	9211.9	10646.0	12974.3	15916.7	15913.4	12164.5
60°	3090.9	2982.9	3455.3	3894.0	4572.3	5672.3	7194.0	10332.2	13456.8	13740.2	9849.7
62.5°	1839.0	1906.5	2372.2	2638.7	2858.0	2972.8	3721.9	6141.3	8979.1	9181.5	6110.9
65°	1224.8	1248.5	1599.4	2038.1	2135.9	1700.7	1515.1	2486.9	3894.0	3769.1	2520.6
67.5°	755.8	809.9	1073.0	1531.9	1697.3	1241.8	718.7	927.9	1073.0	1073.0	728.8
70°	458.9	485.9	715.3	1042.6	1164.2	799.7	523.0	523.0	516.3	506.1	435.3
72.5°	219.3	236.2	364.4	536.5	546.6	421.8	404.9	442.0	431.9	428.5	361.0
75°	94.5	101.2	128.3	168.7	192.3	178.8	246.3	317.2	327.3	317.2	259.8
77.5°	30.4	33.7	47.2	60.8	64.1	77.6	104.6	131.6	151.8	141.7	128.3
80°	3.4	6.7	13.5	30.4	47.2	60.8	77.6	87.7	97.9	97.9	91.1
82.5°	3.4	3.4	13.5	27.0	43.8	57.4	74.2	84.3	97.9	101.2	94.5
85°	0.0	3.4	10.1	23.6	37.1	37.1	33.7	33.7	23.6	23.6	23.6
87.5°	0.0	0.0	3.4	3.4	3.4	6.7	6.7	6.7	6.7	6.7	6.7
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°	3047.0	3047.0	3047.0	3047.0	3047.0	3047.0	3047.0	3047.0	3047.0	3047.0	3047.0
2.5°	3074.0	3067.2	2976.2	2918.8	2888.4	2827.7	2790.5	2763.6	2743.3	2719.7	2723.1
5°	3114.5	3090.9	2939.1	2834.5	2709.6	2642.1	2584.8	2537.5	2507.2	2500.4	2486.9
7.5°	3229.2	3104.4	2874.9	2686.0	2527.4	2459.9	2409.3	2378.9	2392.4	2362.0	2385.6
10°	3316.9	3131.4	2797.3	2524.0	2365.4	2314.8	2287.8	2311.4	2345.2	2331.7	2314.8
12.5°	3424.9	3158.4	2672.5	2368.8	2220.3	2183.2	2230.5	2274.3	2341.8	2368.8	2335.1
15°	3546.4	3188.8	2513.9	2190.0	2095.5	2125.8	2206.8	2284.4	2351.9	2385.6	2405.9
17.5°	3694.9	3178.6	2358.6	2048.2	1977.4	2065.1	2163.0	2233.8	2335.1	2385.6	2372.2
20°	3833.3	3144.8	2186.5	1906.5	1909.9	1990.9	2071.8	2186.5	2240.6	2308.0	2284.4
22.5°	3964.9	3084.2	2007.7	1808.7	1808.7	1933.5	1974.0	2048.2	2095.5	2129.2	2125.8
25°	4150.4	2969.4	1859.2	1714.1	1754.6	1835.7	1869.4	1893.0	1872.8	1899.7	1903.2
27.5°	4282.0	2851.3	1737.8	1629.8	1704.0	1764.8	1754.6	1741.2	1693.9	1656.8	1680.4
30°	4423.7	2712.9	1633.2	1572.4	1612.9	1666.9	1626.4	1586.0	1511.7	1451.0	1454.3
32.5°	4626.2	2648.8	1542.0	1504.9	1559.0	1565.7	1521.8	1461.1	1386.8	1329.5	1326.1
35°	5004.2	2608.3	1464.4	1461.1	1471.2	1474.5	1430.7	1356.5	1326.1	1278.9	1295.7
37.5°	5382.0	2588.1	1410.5	1397.0	1393.6	1397.0	1346.4	1275.5	1332.8	1329.5	1336.3
40°	5864.6	2679.2	1332.8	1316.0	1319.4	1319.4	1255.2	1235.0	1336.3	1346.4	1349.7
42.5°	6353.9	2794.0	1282.2	1228.3	1241.8	1241.8	1208.0	1184.4	1255.2	1187.7	1177.6
45°	6779.1	2962.6	1228.3	1140.5	1174.3	1191.2	1181.0	1140.5	1096.7	982.0	982.0
47.5°	6917.4	3111.2	1164.2	1056.2	1083.1	1157.4	1127.1	1042.6	965.0	870.5	863.8
50°	7160.3	3273.1	1113.5	958.3	1015.7	1106.8	1076.4	992.1	904.3	836.9	840.2
52.5°	7410.0	3458.7	1019.1	843.6	914.5	1066.3	1066.3	971.8	836.9	789.6	782.8
55°	7784.6	3451.9	850.3	691.7	816.6	1005.5	1022.4	870.5	749.1	712.0	712.0
56°	7838.5	3296.7	766.0	647.9	772.7	988.7	992.1	843.6	715.3	674.9	674.9
57.5°	7433.6	2976.2	671.5	593.9	718.7	958.3	961.7	820.0	688.3	631.0	624.3
60°	5719.5	2014.5	560.2	529.8	651.2	863.8	880.7	745.7	604.0	560.2	556.8
62.5°	3229.2	1116.9	492.7	479.1	560.2	735.6	786.2	651.2	512.9	489.3	496.0
65°	1474.5	614.1	415.1	388.1	452.2	566.9	634.4	536.5	421.8	394.8	394.8
67.5°	539.9	418.4	354.3	307.1	317.2	367.8	411.7	347.6	280.1	239.6	249.7
70°	384.7	350.9	310.5	266.5	246.3	239.6	236.2	195.8	138.4	108.0	114.7
72.5°	310.5	290.2	259.8	226.1	192.3	162.0	138.4	101.2	64.1	43.8	40.5
75°	222.7	212.6	188.9	162.0	135.0	114.7	94.5	64.1	33.7	16.8	16.8
77.5°	114.7	114.7	111.3	101.2	84.3	67.5	54.0	37.1	20.3	6.7	6.7
80°	87.7	94.5	97.9	87.7	77.6	60.8	43.8	27.0	13.5	3.4	3.4
82.5°	84.3	97.9	104.6	91.1	77.6	57.4	43.8	27.0	13.5	3.4	3.4
85°	20.3	20.3	30.4	33.7	43.8	47.2	37.1	23.6	10.1	3.4	3.4
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	3.4	3.4	3.4	3.4	0.0
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)