

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: P651919

Luminaire Tested: **GALN-SA5A-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11713.5 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

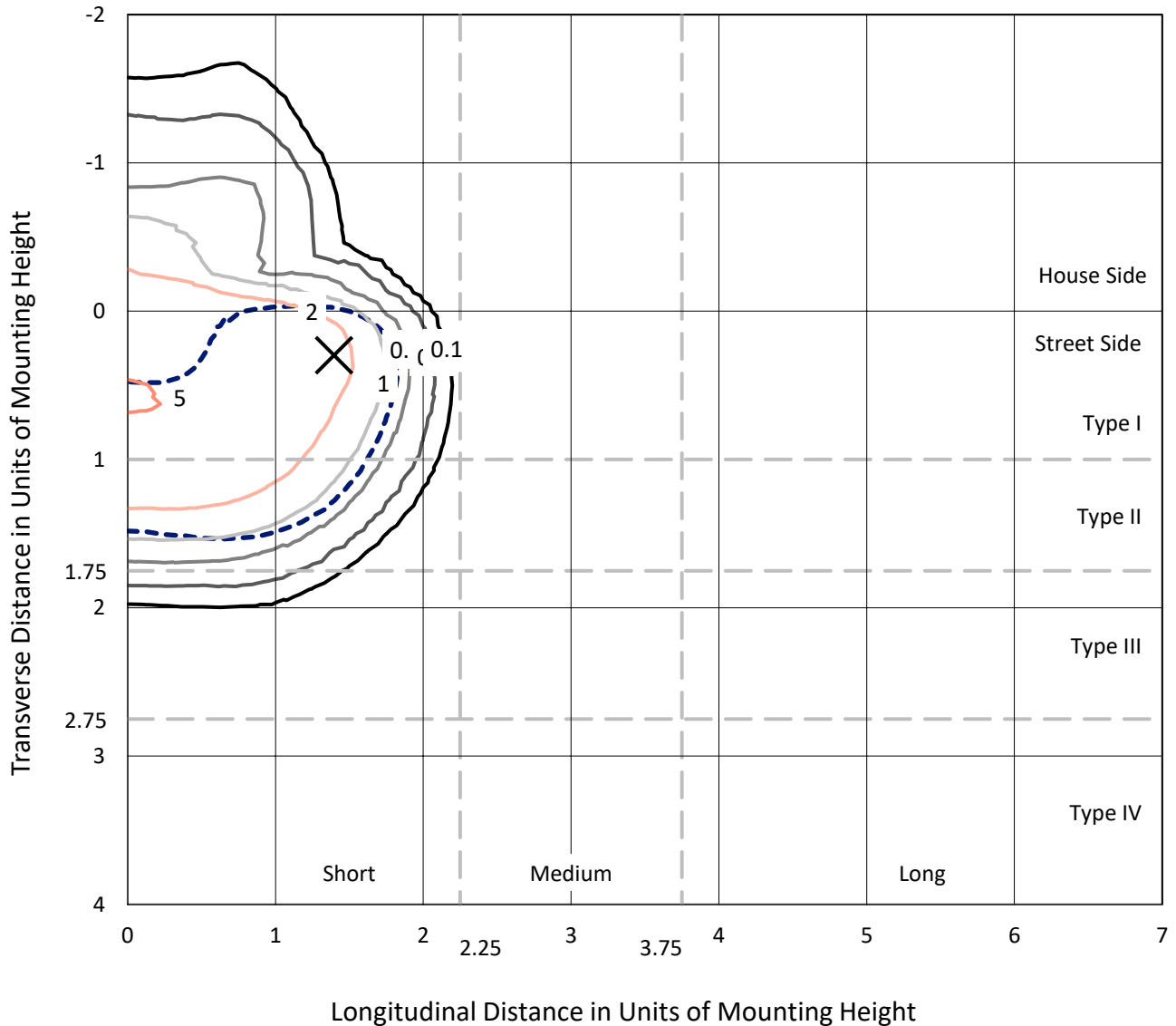
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

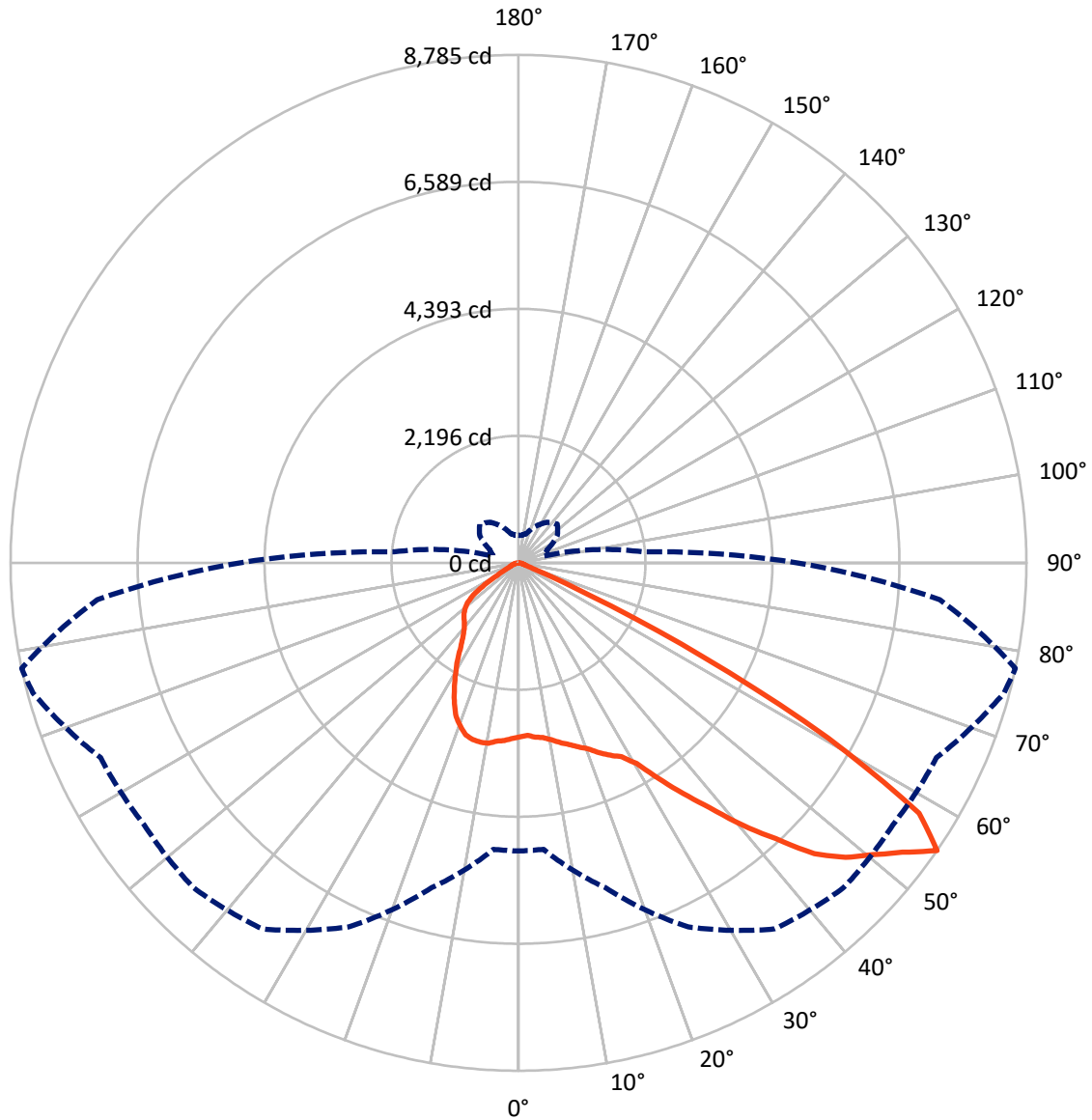
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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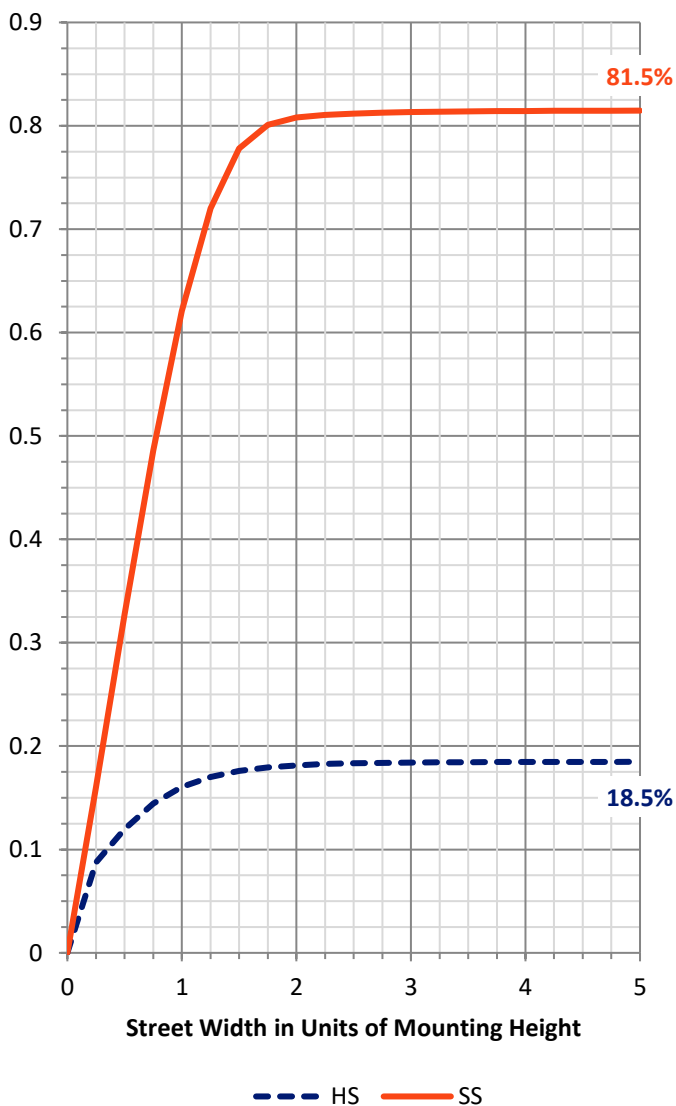
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2175.7	0.0	2175.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9537.8	0.0	9537.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	11713.5	0.0	11713.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.5	2.3
10°-20°	710.7	6.1
20°-30°	1245.7	10.6
30°-40°	2054.0	17.5
40°-50°	2988.8	25.5
50°-60°	3386.6	28.9
60°-70°	968.3	8.3
70°-80°	75.2	0.6
80°-90°	15.6	0.1
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°	11713.5	100.0
0°-180°	11713.5	100.0

Coefficient of Utilization



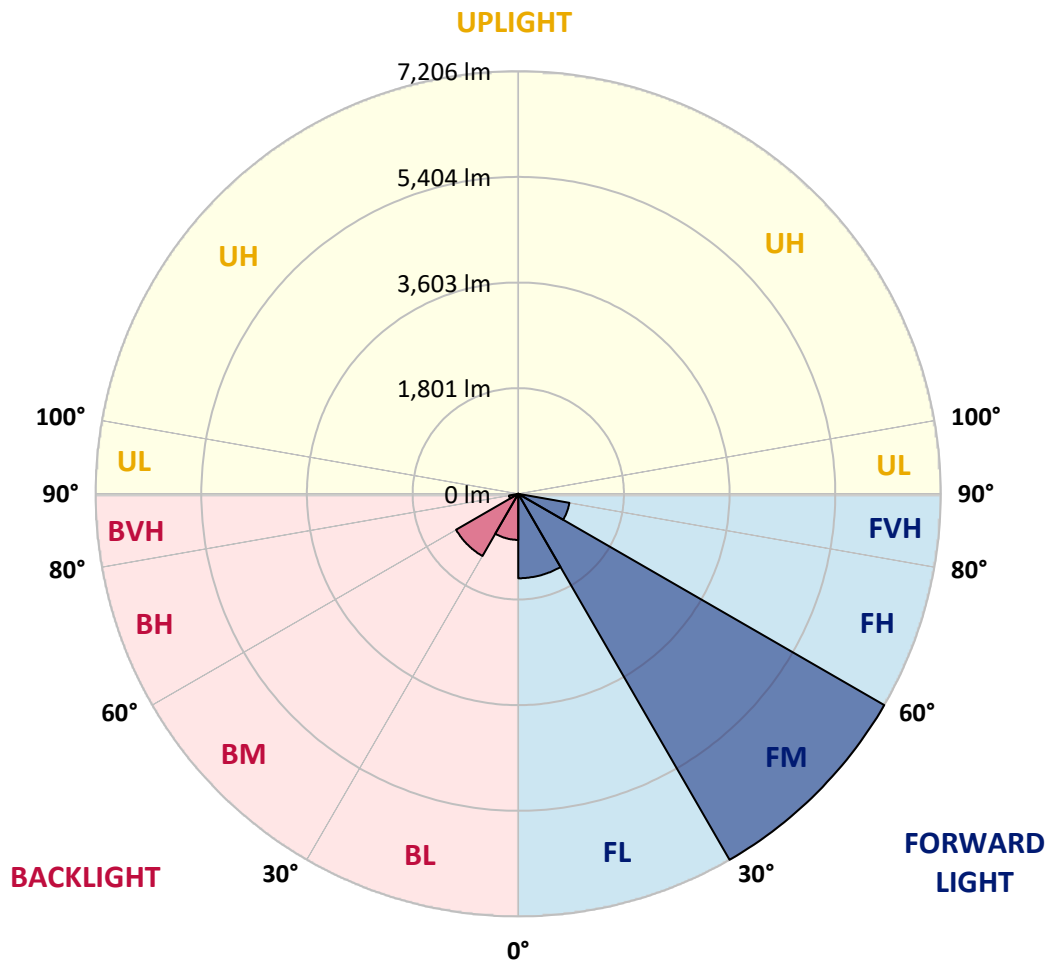
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1439.9	12.3			
FM (30°-60°)	7205.6	61.5			
FH (60°-80°)	884.7	7.6			G1/1800
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	785.0	6.7	B2/1000		
BM (30°-60°)	1223.8	10.4	B2/2500		
BH (60°-80°)	158.8	1.4	B1/500		G1/500
BVH (80°-90°)	8.0	0.1			G0/10
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°	78°	85°
0°	3011.5	3011.5	3011.5	3011.5	3011.5	3011.5	3011.5	3011.5	3011.5	3011.5	3011.5
2.5°	2831.4	2858.6	2862.8	2896.3	2894.2	2950.8	2967.6	2969.7	3007.3	2988.5	3036.7
5°	2751.8	2737.2	2730.9	2789.5	2806.3	2856.5	2898.4	2923.6	3001.0	3028.3	3078.6
7.5°	2680.6	2680.6	2684.8	2737.2	2730.9	2795.8	2839.8	2917.3	3030.4	3053.4	3114.1
10°	2611.6	2586.4	2617.8	2672.3	2718.4	2747.6	2839.8	2913.1	3045.0	3112.0	3195.8
12.5°	2575.9	2588.5	2592.7	2632.5	2682.7	2770.7	2821.0	2942.4	3149.7	3189.6	3279.6
15°	2800.0	2774.9	2714.2	2678.6	2720.5	2762.3	2888.0	3011.5	3204.2	3260.7	3361.3
17.5°	3059.7	3038.8	2988.5	2892.2	2797.9	2875.4	2973.9	3086.9	3262.8	3346.6	3495.3
20°	3399.0	3365.4	3315.2	3126.8	3045.0	2961.2	3065.9	3200.0	3359.2	3434.6	3587.5
22.5°	3803.2	3803.2	3690.1	3461.8	3292.2	3212.6	3256.5	3334.1	3466.0	3568.6	3719.4
25°	4224.1	4211.6	4109.0	3872.3	3585.4	3491.2	3541.4	3595.9	3631.4	3688.0	3788.5
27.5°	4705.8	4632.5	4502.6	4240.8	3987.4	3805.3	3859.7	3811.6	3767.6	3796.9	3941.3
30°	5032.5	5078.5	4913.1	4661.8	4423.1	4219.9	4230.4	4188.5	3987.4	4029.3	4115.2
32.5°	5371.7	5401.1	5308.9	5170.7	4932.0	4695.3	4609.4	4573.9	4423.1	4441.9	4358.1
35°	5654.5	5711.1	5629.3	5568.6	5499.5	5308.9	5072.2	5187.5	4944.5	4898.5	4680.7
37.5°	5914.2	5897.4	5993.7	5930.9	5916.3	5782.2	5522.5	5545.6	5382.2	5371.7	5120.4
40°	6146.6	6150.8	6282.8	6312.0	6253.4	6014.7	5637.7	5819.9	5951.8	5964.5	5641.9
42.5°	6339.3	6395.8	6508.9	6745.6	6657.6	6259.7	5757.1	5956.0	6446.1	6523.6	6136.2
45°	6506.8	6622.0	6762.3	6973.8	6923.6	6607.4	6054.4	6236.7	6973.8	7177.0	6601.1
47.5°	6517.3	6668.1	6821.0	7135.1	7198.0	6793.8	6362.3	6680.7	7392.7	7612.6	6940.4
50°	6475.4	6555.0	6860.8	7202.2	7344.5	7097.5	6793.8	7053.5	7799.0	7937.2	7112.1
52.5°	5979.1	6039.8	6653.4	7265.0	7608.4	7440.9	7365.5	7572.8	8213.6	8316.3	7273.3
55°	4984.4	4973.8	5817.9	6948.8	7729.9	7949.8	7903.7	7977.0	8693.2	8785.4	7313.2
57.5°	3409.4	3600.0	4328.8	5786.4	6986.4	7830.4	7878.6	7757.1	8134.1	8169.6	6374.9
60°	1838.8	1918.3	2504.8	3861.8	5319.4	6381.2	6506.8	6287.0	6257.6	6157.1	4550.8
62.5°	730.9	770.7	1103.6	1912.0	2898.4	3878.5	4148.7	4058.7	3866.0	3602.1	2356.1
65°	347.7	372.8	548.7	894.2	1285.9	1616.7	1887.0	1970.7	1453.4	1308.9	777.0
67.5°	236.7	255.5	400.0	511.0	458.7	479.6	624.1	580.1	341.4	291.1	215.7
70°	180.1	192.7	320.4	347.7	205.2	144.5	161.2	150.8	140.3	142.4	140.3
72.5°	127.7	138.3	234.6	205.2	90.1	67.0	85.9	102.6	102.6	102.6	100.5
75°	77.5	88.0	136.2	79.6	35.6	35.6	54.4	69.1	73.3	75.4	71.2
77.5°	39.8	50.3	46.1	23.0	23.0	27.2	39.8	48.2	52.4	52.4	50.3
80°	8.4	8.4	8.4	12.5	23.0	29.4	39.8	44.0	50.3	50.3	46.1
82.5°	0.0	2.1	6.3	12.5	20.9	27.2	37.7	44.0	50.3	52.4	48.2
85°	0.0	2.1	4.2	8.4	14.6	16.7	14.6	12.5	12.5	12.5	12.5
87.5°	0.0	0.0	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2
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°	3011.5	3011.5	3011.5	3011.5	3011.5	3011.5	3011.5	3011.5	3011.5	3011.5	3011.5
2.5°	3040.9	3047.1	3036.7	3034.6	3026.2	3051.3	2990.6	2976.0	3013.6	2978.1	2986.4
5°	3080.7	3095.3	3076.5	3045.0	2999.0	2927.8	2867.1	2787.4	2749.7	2722.6	2718.4
7.5°	3109.9	3120.4	3101.6	3001.0	2862.8	2682.7	2548.7	2450.3	2372.8	2349.8	2312.1
10°	3229.4	3231.5	3137.2	2915.2	2645.0	2408.4	2203.2	2052.4	1974.9	1926.7	1905.8
12.5°	3308.9	3304.7	3114.1	2745.5	2385.3	2071.2	1836.7	1654.5	1583.3	1560.2	1545.6
15°	3409.4	3386.4	3059.7	2571.8	2050.3	1711.0	1499.5	1373.9	1367.6	1352.9	1367.6
17.5°	3489.1	3424.1	2980.1	2255.5	1729.9	1409.4	1271.2	1279.6	1296.3	1311.0	1313.1
20°	3618.9	3484.9	2797.9	1979.0	1432.5	1208.3	1206.3	1244.0	1285.9	1302.6	1319.4
22.5°	3717.3	3510.0	2603.1	1683.8	1189.5	1126.7	1162.3	1218.9	1250.2	1267.1	1292.1
25°	3752.9	3440.9	2343.4	1388.5	1072.3	1089.0	1143.4	1181.2	1221.0	1239.8	1229.3
27.5°	3788.5	3405.3	2033.5	1143.4	1009.5	1063.9	1110.0	1147.6	1160.2	1185.3	1202.1
30°	3874.4	3281.7	1755.0	988.5	978.0	1047.1	1080.6	1093.2	1126.7	1141.4	1141.4
32.5°	3943.4	3233.6	1459.7	915.2	973.8	1055.5	1059.7	1059.7	1063.9	1053.4	1049.2
35°	4085.9	3068.1	1195.8	871.2	971.7	1057.6	1068.1	1032.5	936.1	898.4	887.9
37.5°	4261.8	2961.2	1001.0	860.8	986.4	1082.7	1099.5	965.5	839.8	779.1	768.6
40°	4475.4	2885.9	873.3	856.6	1019.9	1141.4	1091.1	913.1	749.8	661.8	657.6
42.5°	4724.7	2816.8	787.4	854.5	1061.8	1202.1	1082.7	869.1	657.6	599.0	607.4
45°	4923.6	2779.1	728.8	839.8	1076.5	1237.7	1089.0	791.6	619.9	582.2	586.4
47.5°	5078.5	2699.5	680.6	814.7	1074.4	1250.2	1032.5	760.2	601.1	611.5	622.0
50°	5082.8	2592.7	619.9	760.2	1042.9	1227.3	967.6	730.9	596.9	640.8	661.8
52.5°	5026.2	2441.9	555.0	682.7	969.7	1147.6	908.9	718.3	578.0	573.8	599.0
55°	4825.2	2159.2	446.1	552.9	818.9	946.6	856.6	695.3	521.5	473.3	477.5
57.5°	3899.5	1547.7	328.8	395.8	580.1	693.2	772.8	684.8	469.1	402.1	404.2
60°	2414.7	877.5	240.9	270.1	358.1	420.9	626.2	636.6	418.8	339.3	335.1
62.5°	1239.8	433.5	186.4	190.6	219.9	247.1	429.3	534.0	379.0	322.5	322.5
65°	414.7	213.6	163.3	146.6	146.6	152.9	259.7	370.7	320.4	270.1	270.1
67.5°	178.0	159.2	142.4	127.7	117.3	111.0	146.6	215.7	238.8	205.2	196.9
70°	138.3	134.1	123.5	106.8	92.2	83.8	85.9	111.0	136.2	132.0	127.7
72.5°	102.6	102.6	98.4	83.8	71.2	60.7	56.5	58.6	64.9	67.0	69.1
75°	71.2	73.3	73.3	64.9	52.4	44.0	37.7	31.5	25.1	20.9	18.8
77.5°	48.2	50.3	54.4	48.2	39.8	29.4	23.0	16.7	10.5	4.2	4.2
80°	41.9	48.2	52.4	48.2	41.9	31.5	23.0	12.5	6.3	0.0	0.0
82.5°	44.0	48.2	54.4	46.1	39.8	29.4	23.0	14.6	6.3	2.1	0.0
85°	10.5	10.5	12.5	14.6	18.8	20.9	16.7	10.5	6.3	2.1	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	0.0	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)