

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: P652359

Luminaire Tested: **GALN-SA4B-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652359
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-SA4B-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA 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: 11513.3 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

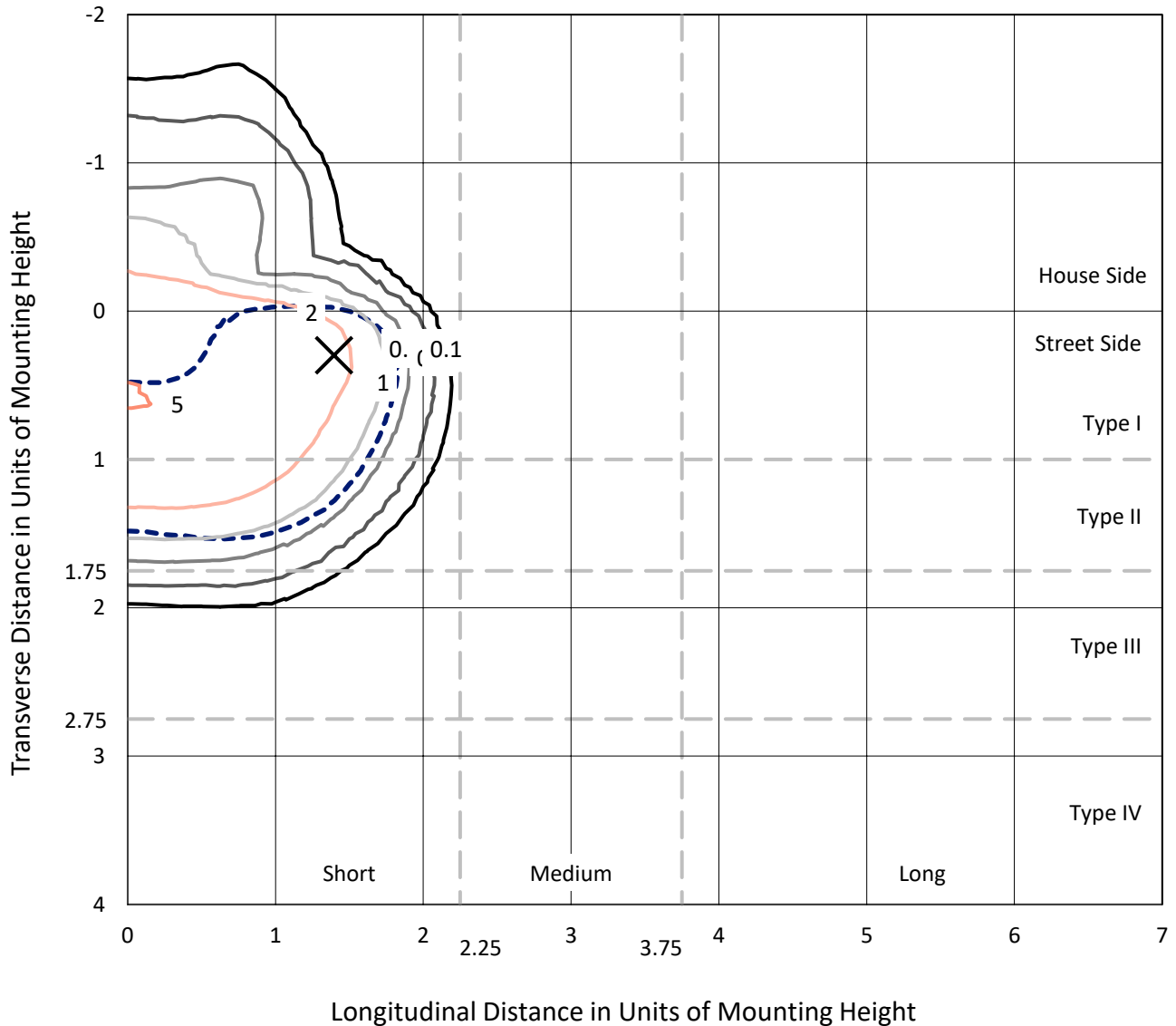
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

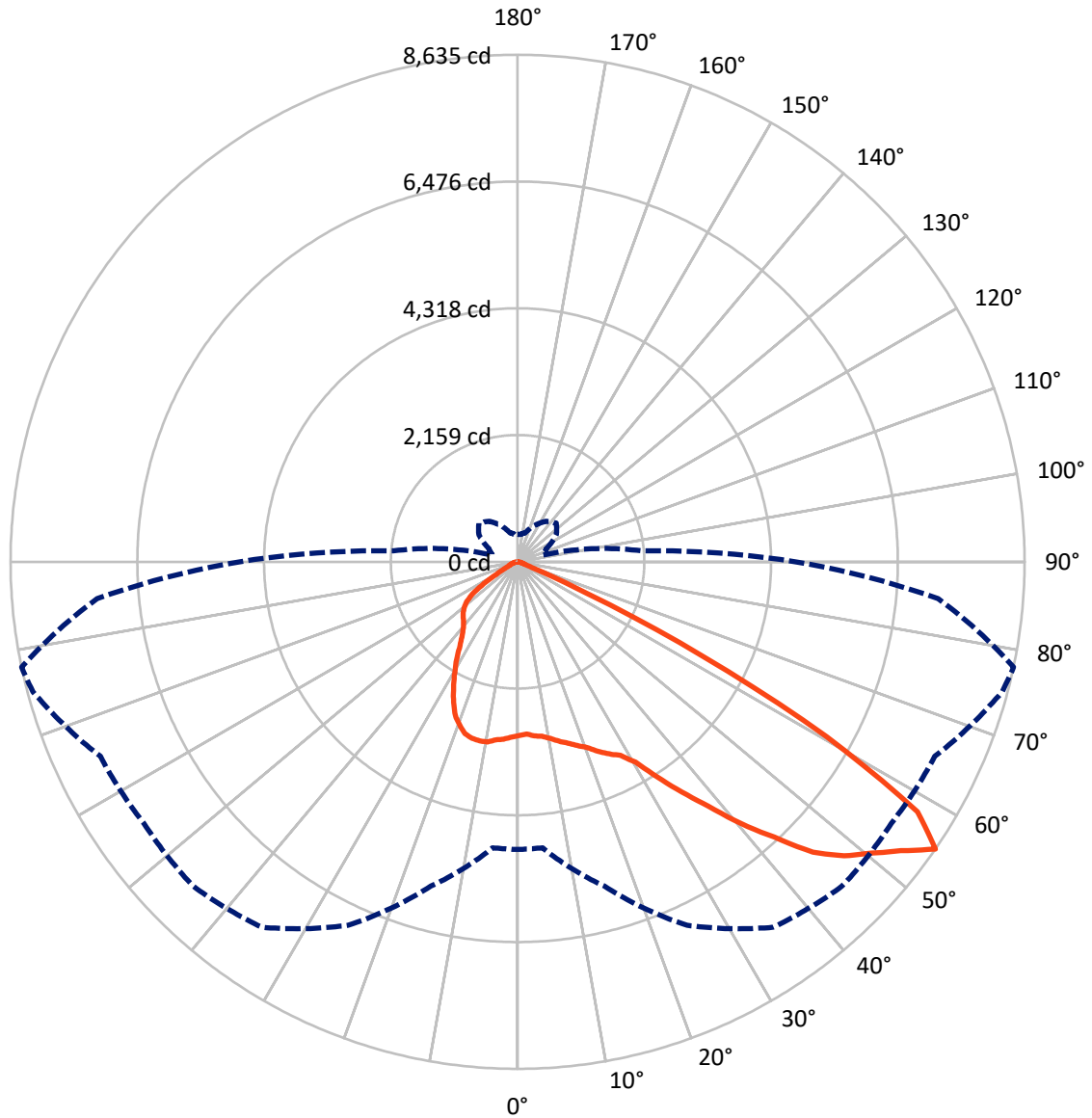
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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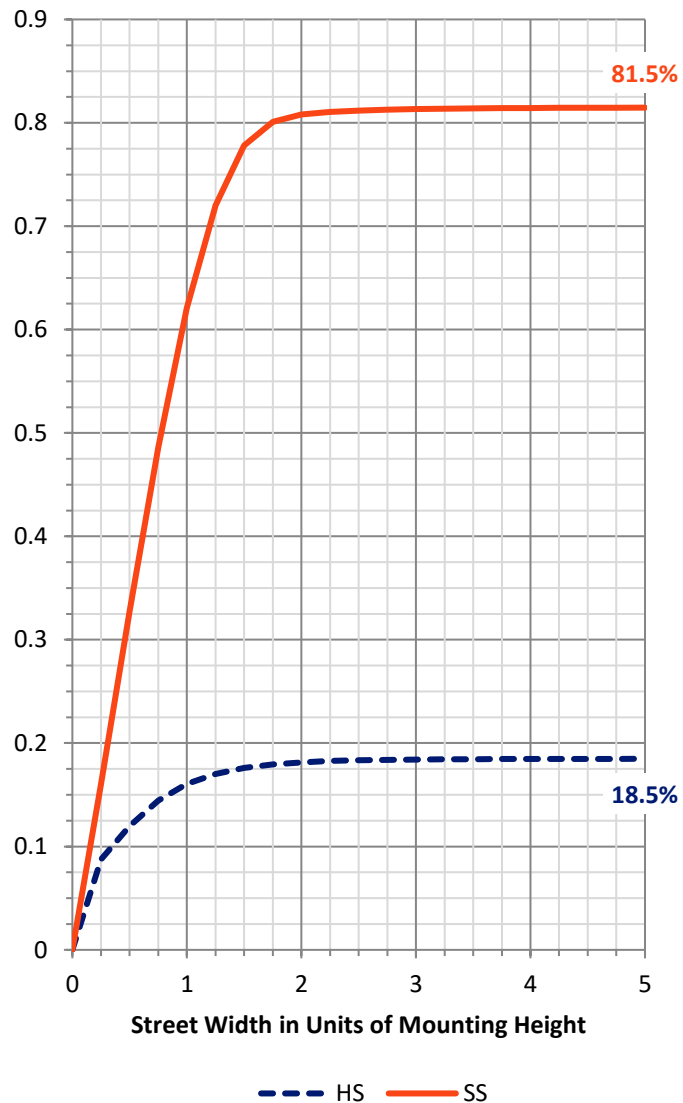
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2138.4	0.0	2138.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9374.8	0.0	9374.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	11513.3	0.0	11513.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.9	2.3
10°-20°	698.5	6.1
20°-30°	1224.4	10.6
30°-40°	2018.9	17.5
40°-50°	2937.7	25.5
50°-60°	3328.8	28.9
60°-70°	951.7	8.3
70°-80°	73.9	0.6
80°-90°	15.4	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°	11513.3	100.0
0°-180°	11513.3	100.0

Coefficient of Utilization



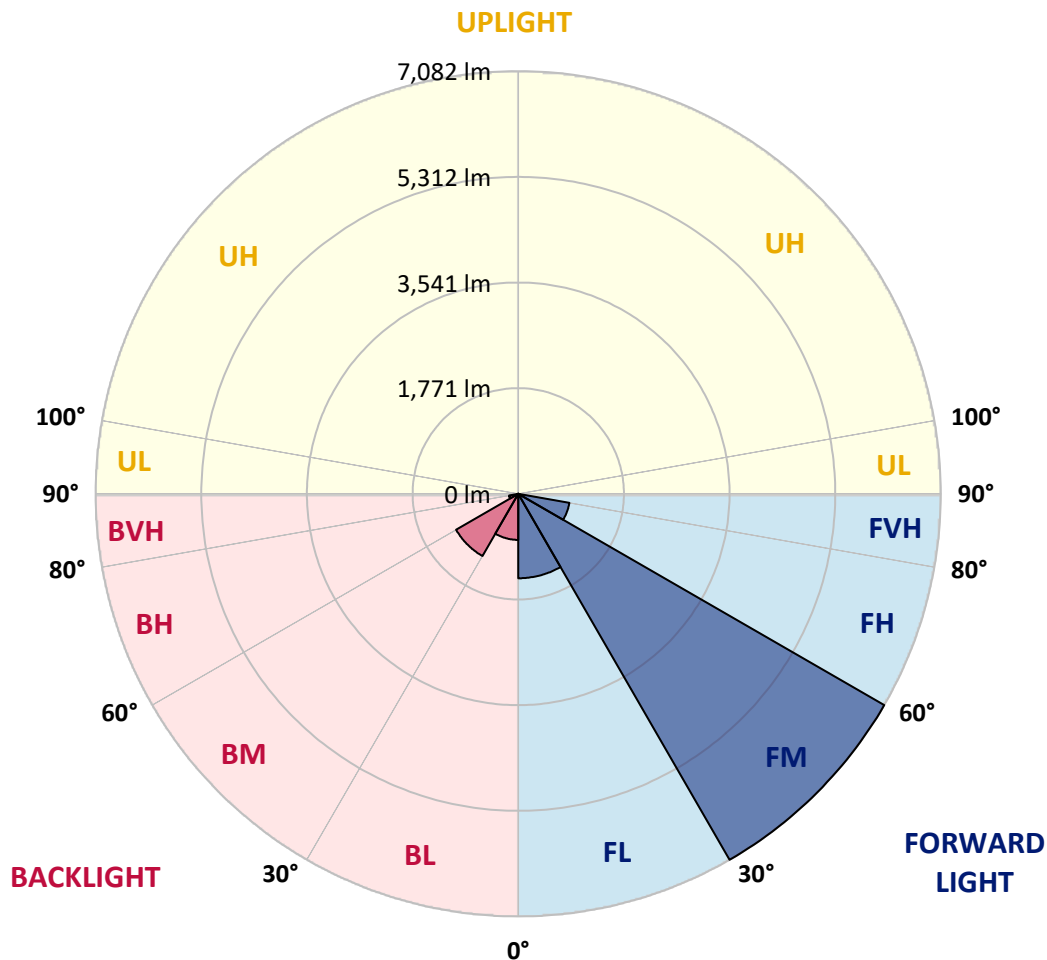
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1415.3	12.3			
FM (30°-60°)	7082.5	61.5			
FH (60°-80°)	869.5	7.6			G1/1800
FVH (80°-90°)	7.5	0.1			G0/10
BL (0°-30°)	771.6	6.7	B2/1000		
BM (30°-60°)	1202.9	10.4	B2/2500		
BH (60°-80°)	156.1	1.4	B1/500		G1/500
BVH (80°-90°)	7.9	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°	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1
2.5°	2783.0	2809.8	2813.9	2846.9	2844.8	2900.4	2916.8	2918.9	2955.9	2937.4	2984.8
5°	2704.8	2690.4	2684.2	2741.9	2758.3	2807.8	2848.9	2873.6	2949.8	2976.6	3025.9
7.5°	2634.9	2634.9	2639.0	2690.4	2684.2	2748.1	2791.3	2867.5	2978.6	3001.3	3060.9
10°	2566.9	2542.2	2573.1	2626.6	2671.9	2700.7	2791.3	2863.4	2993.0	3058.9	3141.2
12.5°	2531.9	2544.3	2548.4	2587.5	2636.9	2723.3	2772.8	2892.1	3096.0	3135.1	3223.6
15°	2752.2	2727.4	2667.7	2632.8	2674.0	2715.1	2838.6	2960.1	3149.5	3205.1	3303.9
17.5°	3007.4	2986.8	2937.4	2842.7	2750.1	2826.3	2923.0	3034.2	3207.1	3289.4	3435.6
20°	3340.9	3308.0	3258.5	3073.3	2993.0	2910.7	3013.6	3145.3	3301.8	3375.9	3526.1
22.5°	3738.2	3738.2	3627.0	3402.6	3235.9	3157.7	3200.9	3277.0	3406.7	3507.6	3655.8
25°	4151.9	4139.6	4038.7	3806.1	3524.1	3431.4	3480.9	3534.4	3569.4	3625.0	3723.8
27.5°	4625.3	4553.3	4425.7	4168.4	3919.3	3740.3	3793.8	3746.4	3703.2	3732.0	3874.1
30°	4946.5	4991.8	4829.2	4582.1	4347.5	4147.8	4158.1	4116.9	3919.3	3960.5	4044.9
32.5°	5280.0	5308.8	5218.2	5082.3	4847.7	4615.1	4530.7	4495.6	4347.5	4366.0	4283.6
35°	5557.8	5613.4	5533.2	5473.5	5405.5	5218.2	4985.6	5098.8	4860.1	4814.7	4600.7
37.5°	5813.1	5796.7	5891.3	5829.6	5815.2	5683.4	5428.2	5450.9	5290.2	5280.0	5033.0
40°	6041.6	6045.7	6175.4	6204.2	6146.6	5911.9	5541.3	5720.5	5850.2	5862.5	5545.5
42.5°	6231.0	6286.6	6397.7	6630.4	6543.8	6152.8	5658.8	5854.3	6335.9	6412.1	6031.3
45°	6395.6	6508.8	6646.8	6854.7	6805.3	6494.5	5951.0	6130.1	6854.7	7054.4	6488.3
47.5°	6406.0	6554.2	6704.5	7013.2	7074.9	6677.6	6253.6	6566.5	7266.4	7482.5	6821.8
50°	6364.8	6443.0	6743.6	7079.0	7219.1	6976.2	6677.6	6933.0	7665.7	7801.6	6990.6
52.5°	5876.9	5936.6	6539.8	7140.8	7478.4	7313.8	7239.7	7443.4	8073.3	8174.2	7149.1
55°	4899.2	4888.8	5718.4	6830.0	7597.8	7813.9	7768.7	7840.7	8544.7	8635.3	7188.2
57.5°	3351.2	3538.5	4254.9	5687.5	6867.0	7696.6	7743.9	7624.6	7995.1	8030.0	6266.0
60°	1807.3	1885.5	2461.9	3795.8	5228.5	6272.2	6395.6	6179.5	6150.7	6051.9	4473.0
62.5°	718.4	757.5	1084.8	1879.4	2848.9	3812.3	4077.8	3989.3	3799.9	3540.5	2315.8
65°	341.7	366.4	539.3	878.9	1263.9	1589.2	1854.7	1937.0	1428.6	1286.6	763.7
67.5°	232.6	251.1	393.2	502.2	450.8	471.4	613.4	570.2	335.6	286.1	212.0
70°	177.0	189.4	315.0	341.7	201.8	142.0	158.5	148.2	137.9	139.9	137.9
72.5°	125.6	135.8	230.5	201.8	88.5	65.9	84.4	100.8	100.8	100.8	98.8
75°	76.2	86.5	133.8	78.2	35.0	35.0	53.5	68.0	72.1	74.1	70.0
77.5°	39.1	49.4	45.2	22.6	22.6	26.7	39.1	47.3	51.5	51.5	49.4
80°	8.2	8.2	8.2	12.4	22.6	28.8	39.1	43.2	49.4	49.4	45.2
82.5°	0.0	2.0	6.1	12.4	20.6	26.7	37.1	43.2	49.4	51.5	47.3
85°	0.0	2.0	4.1	8.2	14.4	16.5	14.4	12.4	12.4	12.4	12.4
87.5°	0.0	0.0	2.0	2.0	2.0	4.1	4.1	4.1	4.1	4.1	4.1
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°	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1
2.5°	2988.9	2995.1	2984.8	2982.7	2974.4	2999.2	2939.5	2925.1	2962.2	2927.1	2935.3
5°	3028.0	3042.4	3023.9	2993.0	2947.7	2877.7	2818.0	2739.8	2702.8	2676.0	2671.9
7.5°	3056.8	3067.1	3048.6	2949.8	2813.9	2636.9	2505.2	2408.4	2332.3	2309.6	2272.6
10°	3174.2	3176.2	3083.6	2865.4	2599.9	2367.2	2165.5	2017.3	1941.1	1893.8	1873.2
12.5°	3252.4	3248.3	3060.9	2698.7	2344.6	2035.8	1805.3	1626.2	1556.2	1533.6	1519.2
15°	3351.2	3328.5	3007.4	2527.8	2015.2	1681.7	1473.9	1350.4	1344.2	1329.8	1344.2
17.5°	3429.4	3365.6	2929.2	2217.0	1700.3	1385.4	1249.5	1257.7	1274.2	1288.6	1290.7
20°	3557.0	3425.3	2750.1	1945.2	1408.0	1187.7	1185.6	1222.7	1263.9	1280.3	1296.8
22.5°	3653.8	3450.0	2558.7	1655.0	1169.2	1107.4	1142.4	1198.0	1228.9	1245.4	1270.1
25°	3688.8	3382.1	2303.4	1364.8	1053.9	1070.4	1123.9	1161.0	1200.1	1218.6	1208.3
27.5°	3723.8	3347.1	1998.8	1123.9	992.2	1045.7	1090.9	1128.0	1140.4	1165.1	1181.5
30°	3808.1	3225.7	1725.0	971.6	961.3	1029.2	1062.2	1074.5	1107.4	1121.9	1121.9
32.5°	3876.1	3178.3	1434.7	899.5	957.2	1037.5	1041.6	1041.6	1045.7	1035.4	1031.3
35°	4016.0	3015.7	1175.4	856.3	955.1	1039.6	1049.8	1014.8	920.1	883.0	872.8
37.5°	4188.9	2910.7	984.0	846.0	969.5	1064.2	1080.7	949.0	825.4	765.7	755.5
40°	4398.9	2836.5	858.4	841.9	1002.5	1121.9	1072.4	897.5	737.0	650.5	646.4
42.5°	4643.9	2768.7	774.0	839.8	1043.7	1181.5	1064.2	854.3	646.4	588.7	596.9
45°	4839.5	2731.6	716.4	825.4	1058.1	1216.6	1070.4	778.1	609.3	572.2	576.3
47.5°	4991.8	2653.4	669.0	800.7	1056.0	1228.9	1014.8	747.2	590.8	601.1	611.3
50°	4995.9	2548.4	609.3	747.2	1025.1	1206.2	951.0	718.4	586.7	629.9	650.5
52.5°	4940.3	2400.1	545.5	671.0	953.1	1128.0	893.4	706.0	568.1	564.1	588.7
55°	4742.7	2122.3	438.4	543.5	804.8	930.4	841.9	683.4	512.6	465.2	469.4
57.5°	3832.9	1521.2	323.2	389.0	570.2	681.4	759.6	673.1	461.1	395.2	397.3
60°	2373.4	862.5	236.7	265.5	352.0	413.8	615.4	625.8	411.7	333.5	329.3
62.5°	1218.6	426.1	183.2	187.3	216.1	242.9	422.0	524.9	372.6	317.0	317.0
65°	407.5	210.0	160.5	144.1	144.1	150.3	255.2	364.3	315.0	265.5	265.5
67.5°	174.9	156.4	139.9	125.6	115.3	109.1	144.1	212.0	234.6	201.8	193.5
70°	135.8	131.7	121.4	105.0	90.6	82.3	84.4	109.1	133.8	129.7	125.6
72.5°	100.8	100.8	96.7	82.3	70.0	59.7	55.6	57.6	63.8	65.9	68.0
75°	70.0	72.1	72.1	63.8	51.5	43.2	37.1	30.9	24.7	20.6	18.5
77.5°	47.3	49.4	53.5	47.3	39.1	28.8	22.6	16.5	10.3	4.1	4.1
80°	41.2	47.3	51.5	47.3	41.2	30.9	22.6	12.4	6.1	0.0	0.0
82.5°	43.2	47.3	53.5	45.2	39.1	28.8	22.6	14.4	6.1	2.0	0.0
85°	10.3	10.3	12.4	14.4	18.5	20.6	16.5	10.3	6.1	2.0	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0	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)