

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: P648014

Luminaire Tested: **GALN-SA6A-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648014
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-SA6A-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 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: 12914 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

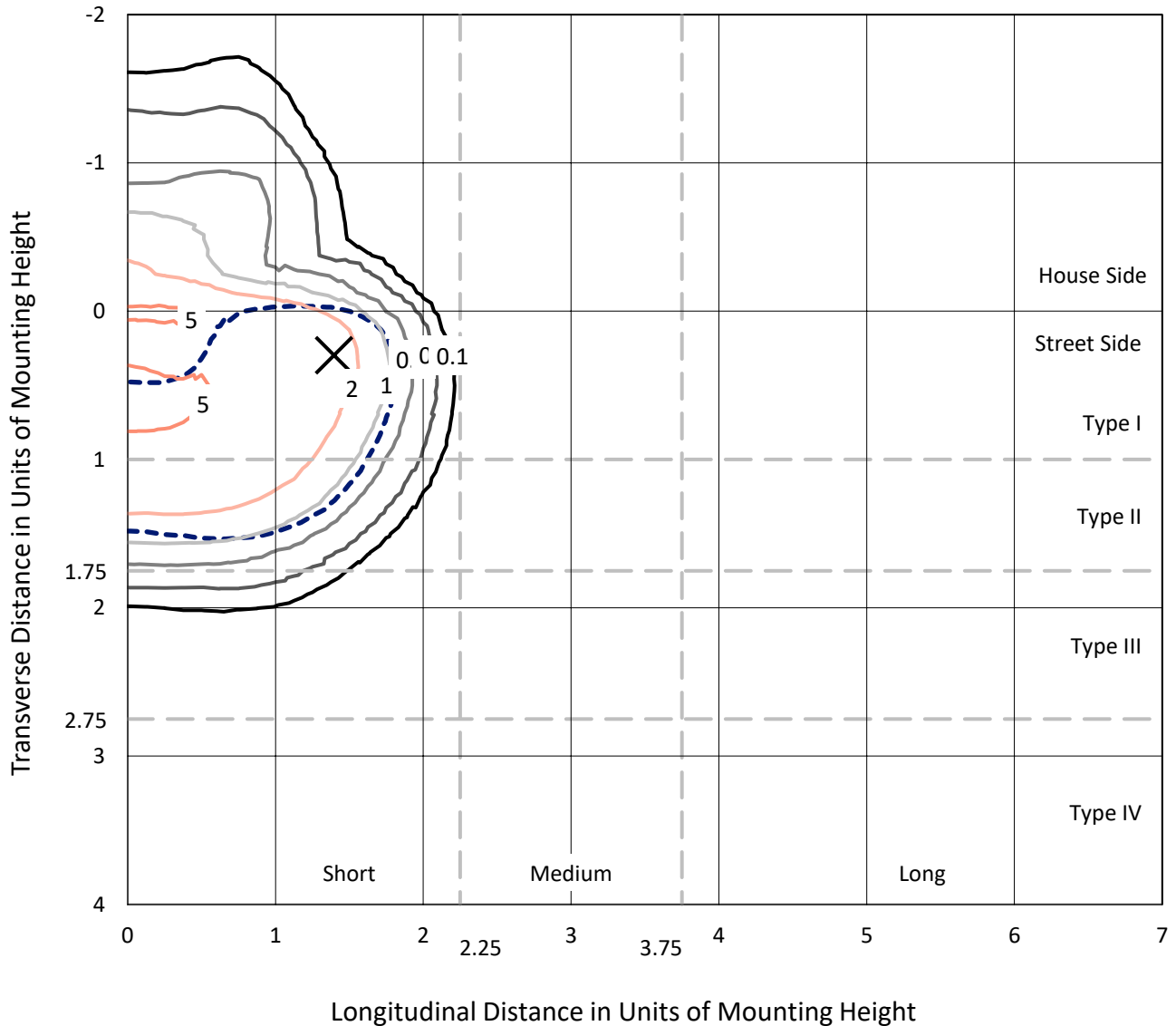
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

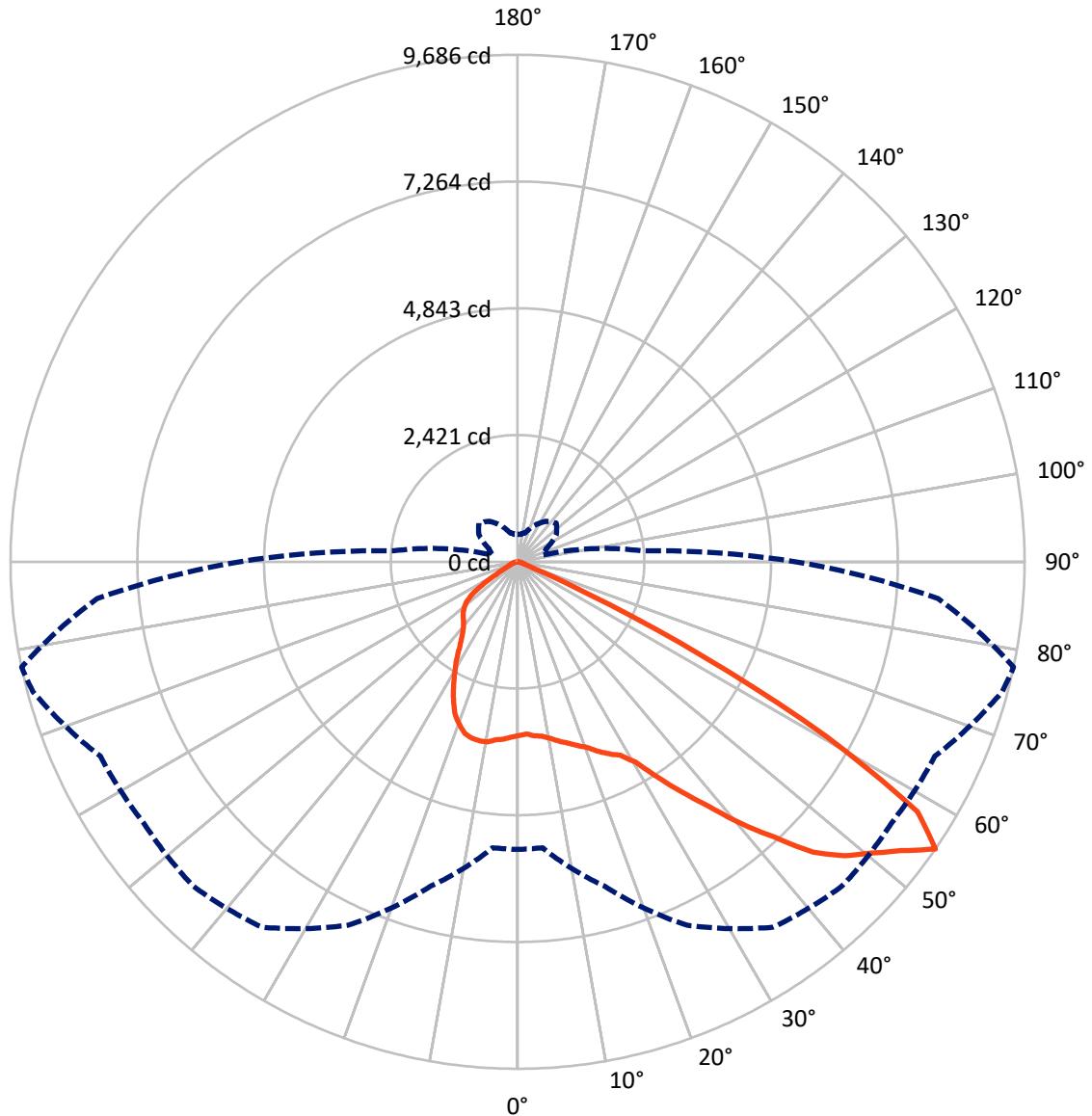
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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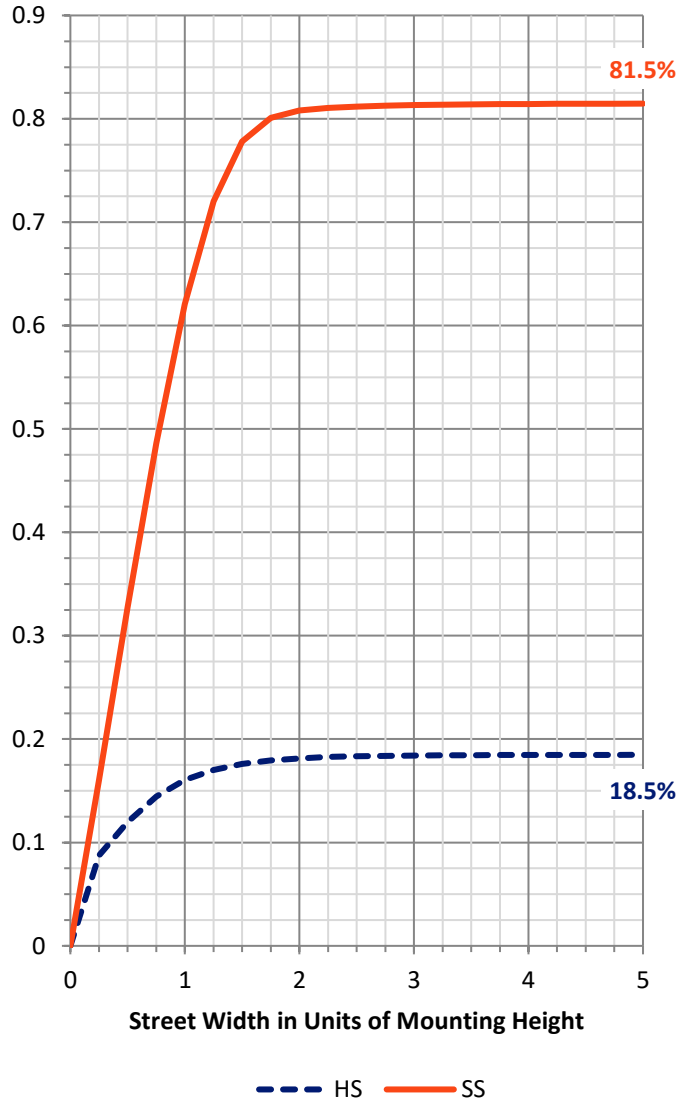
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2398.6	0.0	2398.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10515.4	0.0	10515.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	12914.0	0.0	12914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.1	2.3
10°-20°	783.5	6.1
20°-30°	1373.4	10.6
30°-40°	2264.5	17.5
40°-50°	3295.1	25.5
50°-60°	3733.7	28.9
60°-70°	1067.6	8.3
70°-80°	82.9	0.6
80°-90°	17.2	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°	12914.0	100.0
0°-180°	12914.0	100.0

Coefficient of Utilization



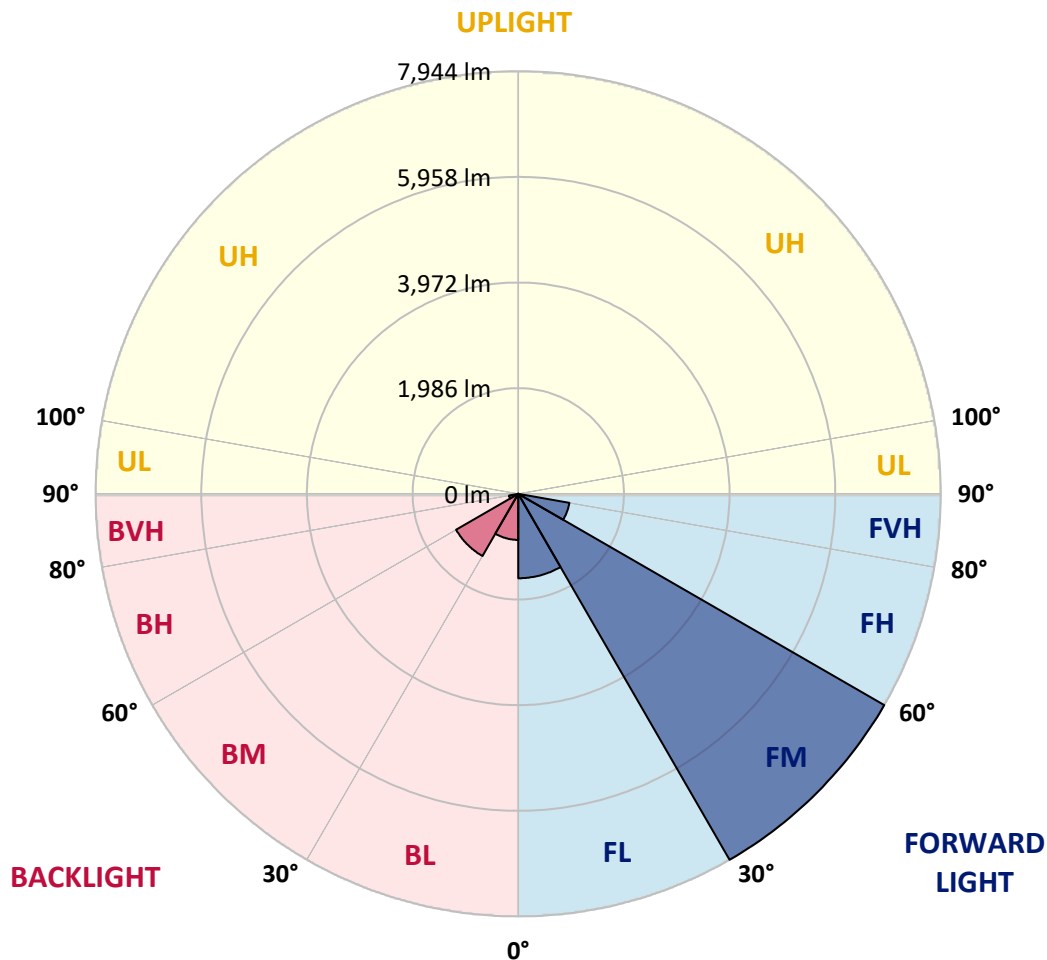
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1587.5	12.3			
FM (30°-60°)	7944.1	61.5			
FH (60°-80°)	975.4	7.6			G1/1800
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	865.4	6.7	B2/1000		
BM (30°-60°)	1349.3	10.4	B2/2500		
BH (60°-80°)	175.1	1.4	B1/500		G1/500
BVH (80°-90°)	8.8	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°	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2
2.5°	3121.7	3151.7	3156.3	3193.2	3190.9	3253.2	3271.7	3274.0	3315.6	3294.8	3347.9
5°	3033.9	3017.8	3010.8	3075.5	3093.9	3149.3	3195.5	3223.2	3308.6	3338.7	3394.1
7.5°	2955.4	2955.4	2960.0	3017.8	3010.8	3082.4	3130.9	3216.3	3341.0	3366.4	3433.4
10°	2879.2	2851.5	2886.1	2946.2	2996.9	3029.3	3130.9	3211.7	3357.1	3431.0	3523.4
12.5°	2839.9	2853.8	2858.4	2902.3	2957.7	3054.6	3110.1	3244.0	3472.6	3516.5	3615.7
15°	3087.0	3059.3	2992.3	2953.1	2999.3	3045.5	3184.0	3320.2	3532.6	3595.0	3705.8
17.5°	3373.3	3350.2	3294.8	3188.6	3084.7	3170.1	3278.7	3403.3	3597.3	3689.7	3853.5
20°	3747.4	3710.4	3655.0	3447.2	3357.1	3264.8	3380.2	3528.0	3703.5	3786.6	3955.2
22.5°	4193.0	4193.0	4068.3	3816.6	3629.6	3541.8	3590.4	3675.8	3821.2	3934.3	4100.6
25°	4657.0	4643.2	4530.0	4269.2	3952.8	3848.9	3904.4	3964.4	4003.6	4066.0	4176.8
27.5°	5188.1	5107.3	4964.1	4675.5	4396.2	4195.3	4255.3	4202.2	4153.7	4186.1	4345.3
30°	5548.3	5599.1	5416.7	5139.6	4876.4	4652.4	4664.0	4617.8	4396.2	4442.4	4537.0
32.5°	5922.3	5954.6	5853.1	5700.7	5437.5	5176.6	5081.9	5042.7	4876.4	4897.2	4804.8
35°	6234.0	6296.4	6206.3	6139.3	6063.2	5853.1	5592.2	5719.2	5451.3	5400.5	5160.4
37.5°	6520.4	6501.9	6608.1	6538.8	6522.6	6374.9	6088.6	6114.0	5933.9	5922.3	5645.3
40°	6776.6	6781.2	6926.7	6959.1	6894.4	6631.1	6215.5	6416.5	6561.9	6575.8	6220.2
42.5°	6989.1	7051.4	7176.0	7437.0	7340.0	6901.3	6347.2	6566.6	7106.8	7192.2	6765.1
45°	7173.8	7300.8	7455.4	7688.7	7633.2	7284.6	6675.1	6875.9	7688.7	7912.6	7277.7
47.5°	7185.3	7351.5	7520.1	7866.4	7935.7	7490.1	7014.4	7365.4	8150.4	8392.9	7651.7
50°	7139.2	7226.9	7563.9	7940.3	8097.3	7824.8	7490.1	7776.4	8598.4	8750.7	7841.0
52.5°	6591.9	6658.9	7335.4	8009.6	8388.3	8203.6	8120.4	8349.0	9055.6	9168.6	8018.8
55°	5495.2	5483.7	6414.1	7661.0	8522.2	8764.6	8713.8	8794.6	9584.2	9685.9	8062.7
57.5°	3758.9	3969.0	4772.5	6379.5	7702.5	8633.0	8686.1	8552.2	8967.8	9007.0	7028.3
60°	2027.2	2115.0	2761.5	4257.6	5864.6	7035.3	7173.8	6931.4	6899.0	6788.1	5017.2
62.5°	805.8	849.7	1216.8	2108.0	3195.5	4276.1	4574.0	4474.7	4262.3	3971.3	2597.5
65°	383.3	411.0	604.9	985.9	1417.7	1782.5	2080.4	2172.7	1602.4	1443.1	856.6
67.5°	260.9	281.7	441.0	563.4	505.7	528.8	688.0	639.6	376.4	321.0	237.8
70°	198.6	212.4	353.3	383.3	226.3	159.3	177.8	166.2	154.7	157.0	154.7
72.5°	140.9	152.4	258.6	226.3	99.3	73.9	94.7	113.1	113.1	113.1	110.8
75°	85.4	96.9	150.1	87.8	39.2	39.2	60.1	76.2	80.8	83.2	78.5
77.5°	43.8	55.4	50.8	25.4	25.4	30.0	43.8	53.1	57.7	57.7	55.4
80°	9.2	9.2	9.2	13.9	25.4	32.3	43.8	48.5	55.4	55.4	50.8
82.5°	0.0	2.3	6.9	13.9	23.1	30.0	41.6	48.5	55.4	57.7	53.1
85°	0.0	2.3	4.6	9.2	16.1	18.5	16.1	13.9	13.9	13.9	13.9
87.5°	0.0	0.0	2.3	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6
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°	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2	3320.2
2.5°	3352.5	3359.5	3347.9	3345.6	3336.4	3364.1	3297.1	3280.9	3322.5	3283.3	3292.5
5°	3396.4	3412.5	3391.8	3357.1	3306.4	3227.8	3160.9	3073.1	3031.6	3001.6	2996.9
7.5°	3428.8	3440.3	3419.5	3308.6	3156.3	2957.7	2810.0	2701.4	2616.0	2590.6	2549.1
10°	3560.3	3562.6	3458.7	3214.0	2916.1	2655.2	2428.9	2262.7	2177.3	2124.2	2101.1
12.5°	3648.1	3643.5	3433.4	3027.0	2629.9	2283.5	2024.9	1824.0	1745.5	1720.1	1704.0
15°	3758.9	3733.5	3373.3	2835.3	2260.4	1886.4	1653.1	1514.6	1507.7	1491.5	1507.7
17.5°	3846.6	3775.1	3285.5	2486.7	1907.2	1553.9	1401.5	1410.7	1429.2	1445.3	1447.7
20°	3989.8	3842.0	3084.7	2181.9	1579.3	1332.3	1329.9	1371.5	1417.7	1436.1	1454.6
22.5°	4098.3	3869.7	2869.9	1856.3	1311.4	1242.2	1281.5	1343.8	1378.4	1396.9	1424.6
25°	4137.5	3793.6	2583.7	1530.8	1182.2	1200.7	1260.6	1302.2	1346.1	1366.9	1355.3
27.5°	4176.8	3754.3	2242.0	1260.6	1112.9	1172.9	1223.8	1265.2	1279.1	1306.8	1325.3
30°	4271.5	3618.1	1934.9	1089.8	1078.3	1154.5	1191.4	1205.3	1242.2	1258.4	1258.4
32.5°	4347.7	3564.9	1609.3	1009.0	1073.6	1163.7	1168.3	1168.3	1172.9	1161.3	1156.7
35°	4504.7	3382.6	1318.4	960.5	1071.3	1166.0	1177.6	1138.3	1032.1	990.5	979.0
37.5°	4698.6	3264.8	1103.6	949.0	1087.5	1193.7	1212.2	1064.4	925.9	858.9	847.4
40°	4934.2	3181.6	962.8	944.4	1124.5	1258.4	1202.9	1006.7	826.6	729.6	725.0
42.5°	5208.9	3105.5	868.1	942.0	1170.6	1325.3	1193.7	958.2	725.0	660.4	669.5
45°	5428.2	3063.9	803.5	925.9	1186.8	1364.5	1200.7	872.7	683.4	641.9	646.5
47.5°	5599.1	2976.2	750.4	898.2	1184.4	1378.4	1138.3	838.1	662.7	674.2	685.8
50°	5603.7	2858.4	683.4	838.1	1149.8	1353.0	1066.7	805.8	658.0	706.5	729.6
52.5°	5541.4	2692.2	611.8	752.7	1069.0	1265.2	1002.1	791.9	637.3	632.7	660.4
55°	5319.7	2380.5	491.8	609.6	902.8	1043.7	944.4	766.6	574.9	521.8	526.4
57.5°	4299.1	1706.3	362.5	436.4	639.6	764.2	852.0	755.0	517.2	443.3	445.6
60°	2662.2	967.4	265.5	297.9	394.8	464.1	690.4	701.9	461.8	374.0	369.4
62.5°	1366.9	477.9	205.5	210.1	242.4	272.5	473.3	588.7	417.9	355.6	355.6
65°	457.2	235.5	180.1	161.6	161.6	168.6	286.3	408.6	353.3	297.9	297.9
67.5°	196.2	175.5	157.0	140.9	129.3	122.4	161.6	237.8	263.2	226.3	217.0
70°	152.4	147.8	136.2	117.8	101.6	92.4	94.7	122.4	150.1	145.5	140.9
72.5°	113.1	113.1	108.5	92.4	78.5	66.9	62.3	64.7	71.6	73.9	76.2
75°	78.5	80.8	80.8	71.6	57.7	48.5	41.6	34.6	27.7	23.1	20.7
77.5°	53.1	55.4	60.1	53.1	43.8	32.3	25.4	18.5	11.5	4.6	4.6
80°	46.2	53.1	57.7	53.1	46.2	34.6	25.4	13.9	6.9	0.0	0.0
82.5°	48.5	53.1	60.1	50.8	43.8	32.3	25.4	16.1	6.9	2.3	0.0
85°	11.5	11.5	13.9	16.1	20.7	23.1	18.5	11.5	6.9	2.3	0.0
87.5°	4.6	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3	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)