

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: P648506

Luminaire Tested: **GALN-SA6B-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15777.5 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

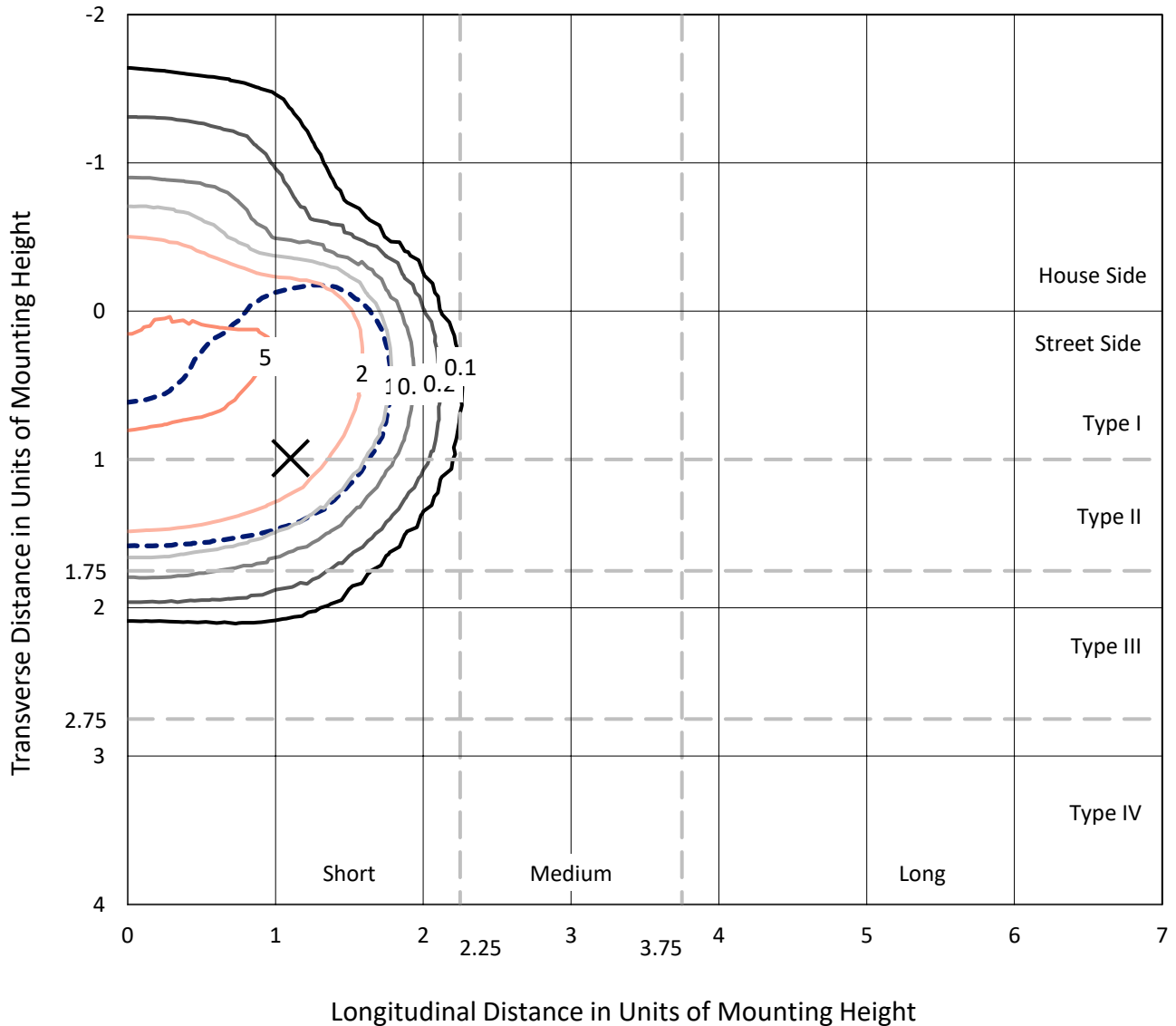
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

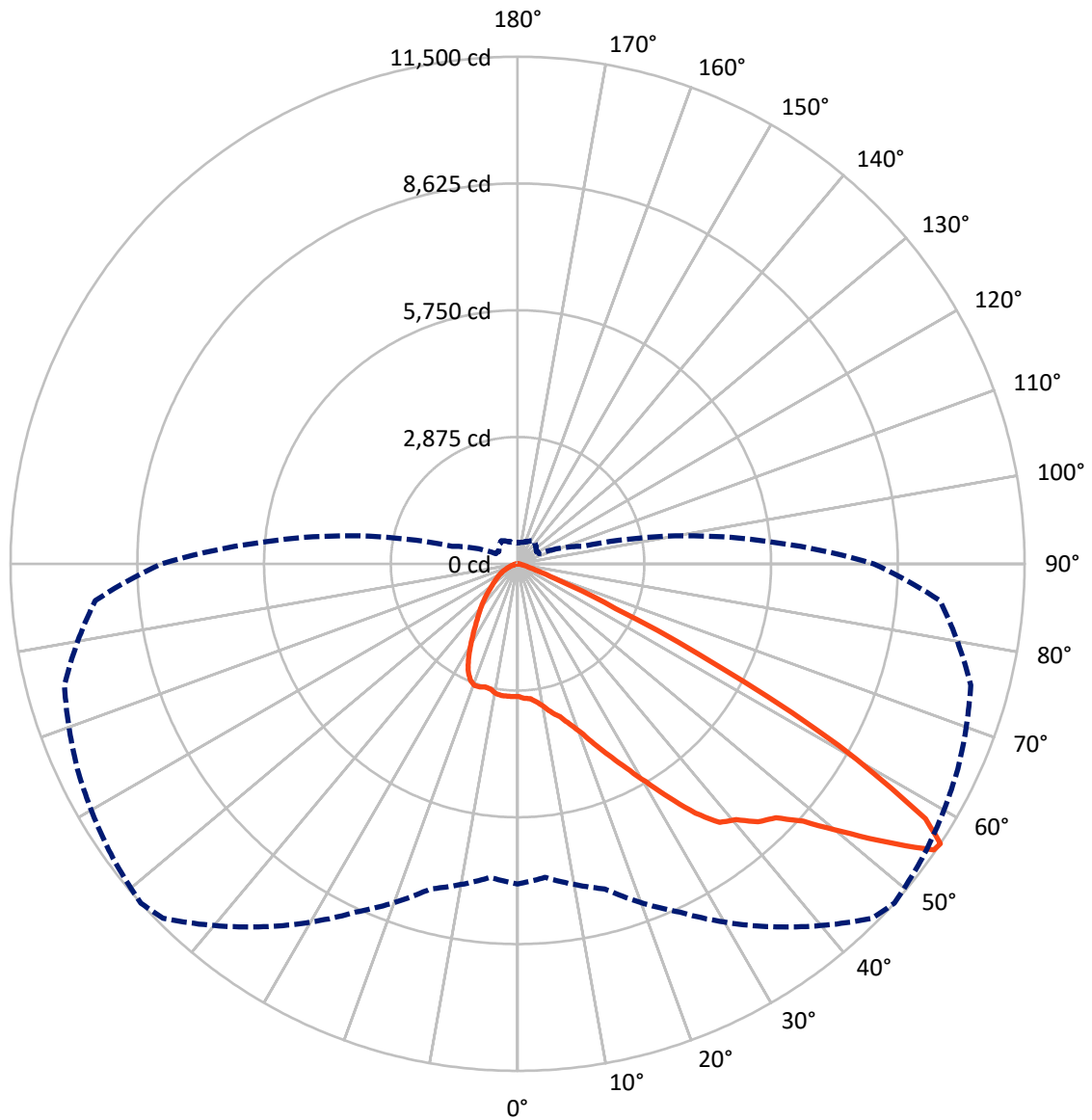
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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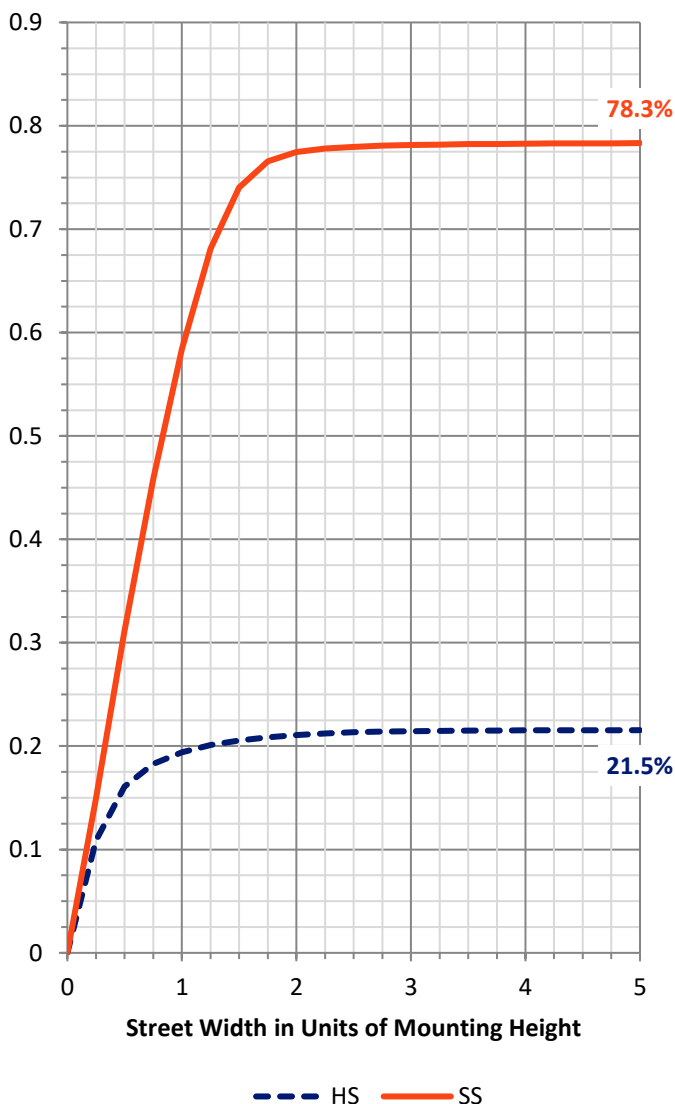
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3431.3	0.0	3431.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	12346.2	0.0	12346.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	15777.5	0.0	15777.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.5	1.9
10°-20°	938.1	5.9
20°-30°	1701.6	10.8
30°-40°	2672.8	16.9
40°-50°	3899.2	24.7
50°-60°	4697.8	29.8
60°-70°	1375.5	8.7
70°-80°	174.5	1.1
80°-90°	24.5	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°	15777.5	100.0
0°-180°	15777.5	100.0

Coefficient of Utilization

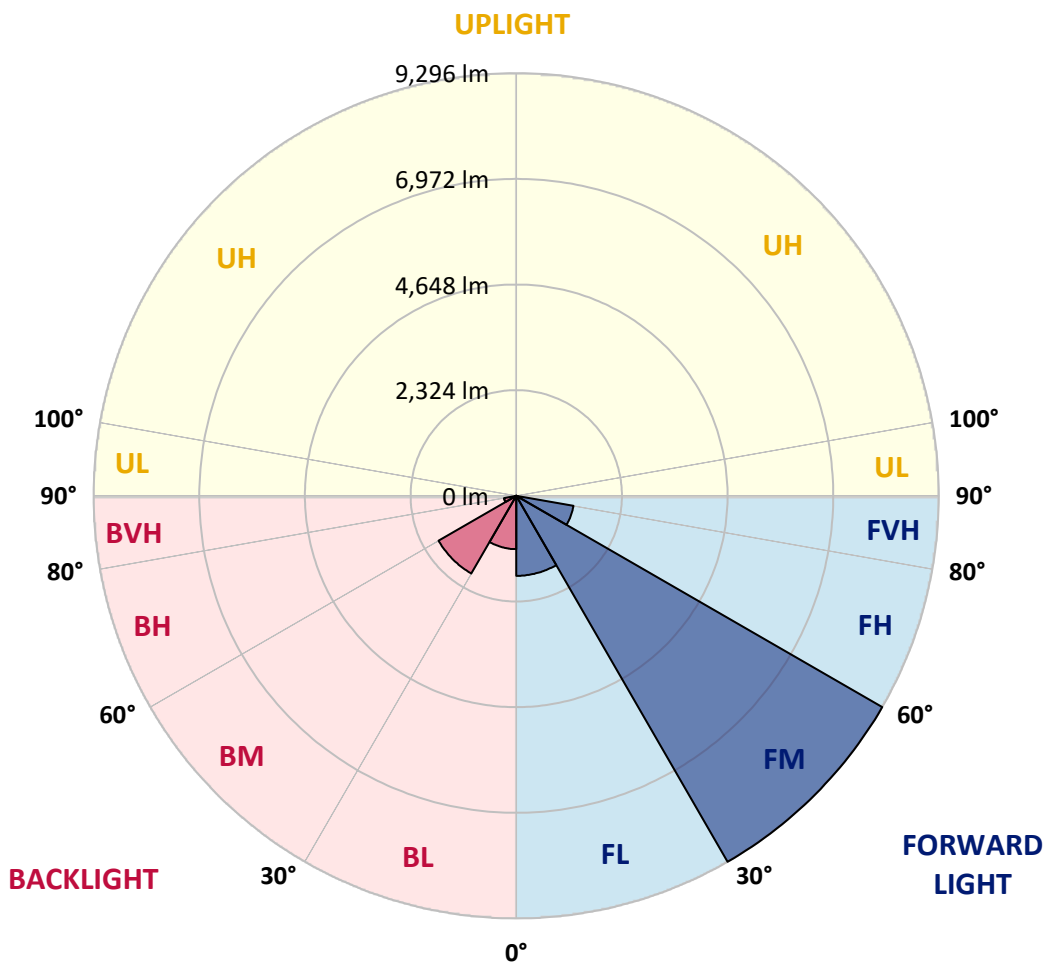


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1760.4	11.2			
FM (30°-60°)	9296.1	58.9			
FH (60°-80°)	1277.3	8.1			G1/1800
FVH (80°-90°)	12.3	0.1			G1/100
BL (0°-30°)	1172.8	7.4	B3/2500		
BM (30°-60°)	1973.7	12.5	B2/2500		
BH (60°-80°)	272.6	1.7	B1/500		G1/500
BVH (80°-90°)	12.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3013.5	3013.5	3013.5	3013.5	3013.5	3013.5	3013.5	3013.5	3013.5	3013.5	3013.5
2.5°	3068.1	3053.7	3053.7	3030.8	3056.6	3045.1	3053.7	3025.0	3053.7	3010.6	3045.1
5°	3082.4	3085.3	3073.8	3088.2	3088.2	3105.5	3076.7	3102.6	3116.9	3085.3	3070.9
7.5°	3157.1	3162.9	3160.0	3148.5	3171.5	3168.6	3165.7	3145.6	3151.4	3139.9	3122.7
10°	3303.6	3300.7	3315.1	3286.4	3269.2	3289.3	3295.0	3263.5	3240.4	3231.8	3177.3
12.5°	3516.2	3481.8	3461.6	3432.9	3441.5	3412.8	3464.5	3410.0	3398.5	3346.7	3292.1
15°	3688.6	3682.8	3685.7	3639.8	3588.0	3599.5	3599.5	3570.8	3553.6	3490.4	3412.8
17.5°	4041.9	3921.3	3947.1	3889.7	3846.6	3843.7	3817.8	3823.6	3777.7	3645.5	3527.7
20°	4317.7	4266.0	4225.8	4128.1	4062.0	4082.2	4070.7	4041.9	4027.6	3855.2	3688.6
22.5°	4564.8	4582.0	4516.0	4490.1	4398.2	4406.8	4429.7	4403.9	4294.8	4116.6	3869.6
25°	4912.4	4892.3	4803.2	4771.6	4685.4	4717.0	4806.1	4786.0	4717.0	4395.3	4010.4
27.5°	5323.1	5254.2	5271.5	5127.9	5044.6	5133.6	5239.8	5340.5	5145.1	4722.7	4177.0
30°	5613.3	5541.5	5535.7	5530.0	5509.9	5613.3	5736.9	5828.8	5670.8	5050.3	4452.8
32.5°	5756.9	5774.2	5823.0	5805.8	5981.0	6193.6	6322.9	6455.1	6256.8	5584.6	4817.6
35°	6139.0	6029.9	6139.0	6150.5	6331.5	6782.5	6946.3	7262.2	7213.5	6340.1	5262.9
37.5°	6363.1	6354.5	6368.8	6478.0	6653.2	7210.6	7443.3	7687.4	7595.5	6794.0	5817.3
40°	6733.7	6756.7	6753.8	6837.1	7029.6	7532.3	7627.1	7825.3	7833.9	7423.2	6633.2
42.5°	7328.3	7236.4	7176.1	7262.2	7532.3	7811.0	8000.5	7960.4	8244.8	8187.3	7681.7
45°	7862.7	7917.2	7828.2	7971.9	8069.5	8218.9	8213.1	8299.3	8661.3	8934.2	8471.7
47.5°	8362.5	8397.0	8440.1	8537.8	8750.3	8773.4	8724.5	8687.2	9187.0	9468.5	9083.6
50°	8661.3	8692.9	8894.0	9069.3	9465.7	9517.4	9546.1	9451.3	9790.3	9821.9	9661.0
52.5°	8580.9	8615.3	8896.8	9474.3	10106.3	10580.3	10494.1	10333.3	10313.1	10436.7	10195.4
55°	7868.4	7836.8	8224.6	9123.8	10307.4	11445.0	11456.5	11286.9	10962.4	10879.1	10114.9
56°	7262.2	7138.8	7632.8	8718.8	10048.9	11370.3	11499.5	11318.6	11014.1	10640.6	9617.9
57.5°	5949.5	6067.2	6558.5	7457.6	9155.4	10833.1	10907.8	10864.7	10634.9	10008.6	8463.1
60°	3280.7	3487.5	3921.3	5021.5	6518.2	8313.7	8374.0	8724.5	8767.6	7664.5	5823.0
62.5°	1393.3	1370.3	1821.3	2631.4	3711.6	5018.6	5130.7	5489.8	5555.9	4418.2	2921.6
65°	566.0	597.5	824.5	1324.4	1962.0	2286.7	2444.7	2562.4	2780.8	1824.2	1077.3
67.5°	373.5	370.6	485.5	755.5	1057.1	1019.9	1019.9	1077.3	996.8	744.0	465.4
70°	267.2	275.8	347.6	522.8	657.9	488.4	468.2	448.1	508.5	491.3	376.3
72.5°	175.2	186.7	232.7	313.1	341.9	267.2	267.2	321.7	419.5	396.4	307.4
75°	114.9	117.8	143.6	181.0	169.5	137.9	152.3	215.5	304.5	293.0	218.3
77.5°	77.6	80.4	97.6	117.8	94.8	77.6	83.3	109.2	149.4	149.4	114.9
80°	28.7	31.6	40.2	37.3	43.1	54.6	60.3	74.7	89.0	89.0	77.6
82.5°	0.0	2.9	8.6	20.1	31.6	43.1	48.9	57.5	66.1	74.7	71.8
85°	0.0	2.9	8.6	14.3	23.0	25.8	28.7	20.1	17.2	17.2	14.3
87.5°	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9	5.7	2.9	2.9
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°	3013.5	3013.5	3013.5	3013.5	3013.5	3013.5	3013.5	3013.5	3013.5	3013.5	3013.5
2.5°	3013.5	3010.6	3010.6	3002.0	3019.2	3010.6	3016.4	3013.5	2976.2	3004.9	2984.8
5°	3045.1	3065.2	3033.6	3027.9	3004.9	3013.5	3013.5	2984.8	3010.6	3007.7	3002.0
7.5°	3125.5	3091.0	3056.6	3022.1	3016.4	3007.7	2976.2	2964.7	2984.8	2961.8	2996.2
10°	3160.0	3165.7	3114.1	3068.1	3025.0	2964.7	2921.6	2895.7	2864.1	2898.6	2918.7
12.5°	3318.0	3260.6	3171.5	3099.7	2953.2	2892.9	2849.7	2838.3	2892.9	2904.3	2884.3
15°	3372.6	3364.0	3249.1	3088.2	2935.9	2864.1	2872.7	2849.7	2855.5	2826.8	2832.5
17.5°	3484.7	3386.9	3252.0	3050.9	2933.0	2915.8	2864.1	2772.2	2720.5	2697.5	2717.6
20°	3608.1	3513.3	3318.0	3065.2	2958.9	2912.9	2743.5	2631.4	2525.1	2467.7	2470.5
22.5°	3717.3	3599.5	3289.3	3070.9	2981.9	2792.3	2588.4	2367.2	2235.0	2146.0	2148.8
25°	3849.5	3682.8	3300.7	3082.4	2921.6	2599.8	2306.8	2091.3	1933.4	1873.0	1893.1
27.5°	3924.2	3734.5	3364.0	3108.3	2763.6	2326.9	2010.9	1809.8	1717.9	1689.2	1686.3
30°	4148.3	3849.5	3441.5	3056.6	2499.3	2033.9	1740.8	1617.4	1528.3	1502.4	1508.2
32.5°	4481.5	4059.2	3542.1	2921.6	2229.3	1772.5	1565.6	1473.7	1390.4	1341.6	1335.8
35°	4760.1	4418.2	3648.4	2711.8	1916.1	1571.4	1442.1	1327.2	1200.8	1146.2	1131.8
37.5°	5291.6	4823.4	3625.4	2395.8	1617.4	1422.0	1310.0	1169.2	1060.0	985.3	976.7
40°	5998.2	5297.3	3513.3	2010.9	1396.2	1289.8	1169.2	1034.2	899.2	835.9	830.2
42.5°	6857.2	5877.6	3309.4	1620.3	1175.0	1157.7	1048.5	893.4	772.7	726.8	729.7
45°	7555.3	6374.6	3102.6	1301.3	1011.2	1028.5	933.6	787.1	703.8	666.5	666.5
47.5°	8175.8	6710.7	2878.5	1074.4	859.0	899.2	815.9	729.7	657.9	629.1	623.3
50°	8773.4	7052.6	2654.4	870.5	732.6	772.7	764.1	695.2	637.8	603.3	606.1
52.5°	9146.8	7107.1	2370.0	712.5	640.7	686.6	715.3	652.1	588.9	568.8	563.1
55°	8690.0	6403.3	1838.6	586.1	542.9	603.3	657.9	586.1	537.2	502.8	499.9
56°	8075.2	5725.4	1537.0	540.1	514.2	580.3	637.8	560.2	505.6	485.5	471.1
57.5°	6837.1	4685.4	1134.7	479.7	476.8	540.1	606.1	534.3	471.1	453.9	453.9
60°	4263.1	2637.1	686.6	402.1	413.7	479.7	545.8	476.8	419.5	419.5	428.1
62.5°	1942.0	1097.4	416.6	341.9	356.2	413.7	485.5	430.9	399.3	430.9	436.7
65°	660.7	474.0	301.6	272.9	281.6	341.9	416.6	436.7	433.8	453.9	465.4
67.5°	370.6	304.5	252.8	226.9	221.2	252.8	341.9	436.7	419.5	410.8	416.6
70°	313.1	258.5	224.1	201.1	192.5	204.0	264.3	330.3	295.9	287.3	281.6
72.5°	252.8	215.5	195.4	181.0	155.1	132.2	120.7	126.4	140.8	149.4	163.7
75°	178.1	163.7	163.7	146.5	112.0	83.3	66.1	54.6	37.3	25.8	28.7
77.5°	100.5	100.5	103.4	89.0	71.8	54.6	40.2	28.7	14.3	5.7	2.9
80°	69.0	74.7	80.4	71.8	60.3	48.9	34.5	20.1	8.6	0.0	0.0
82.5°	69.0	77.6	83.3	71.8	60.3	46.0	34.5	20.1	8.6	2.9	0.0
85°	14.3	17.2	20.1	23.0	34.5	34.5	25.8	17.2	8.6	2.9	0.0
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	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)