

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: P382969

Luminaire Tested: **GLEON-SA3B-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15921.1 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

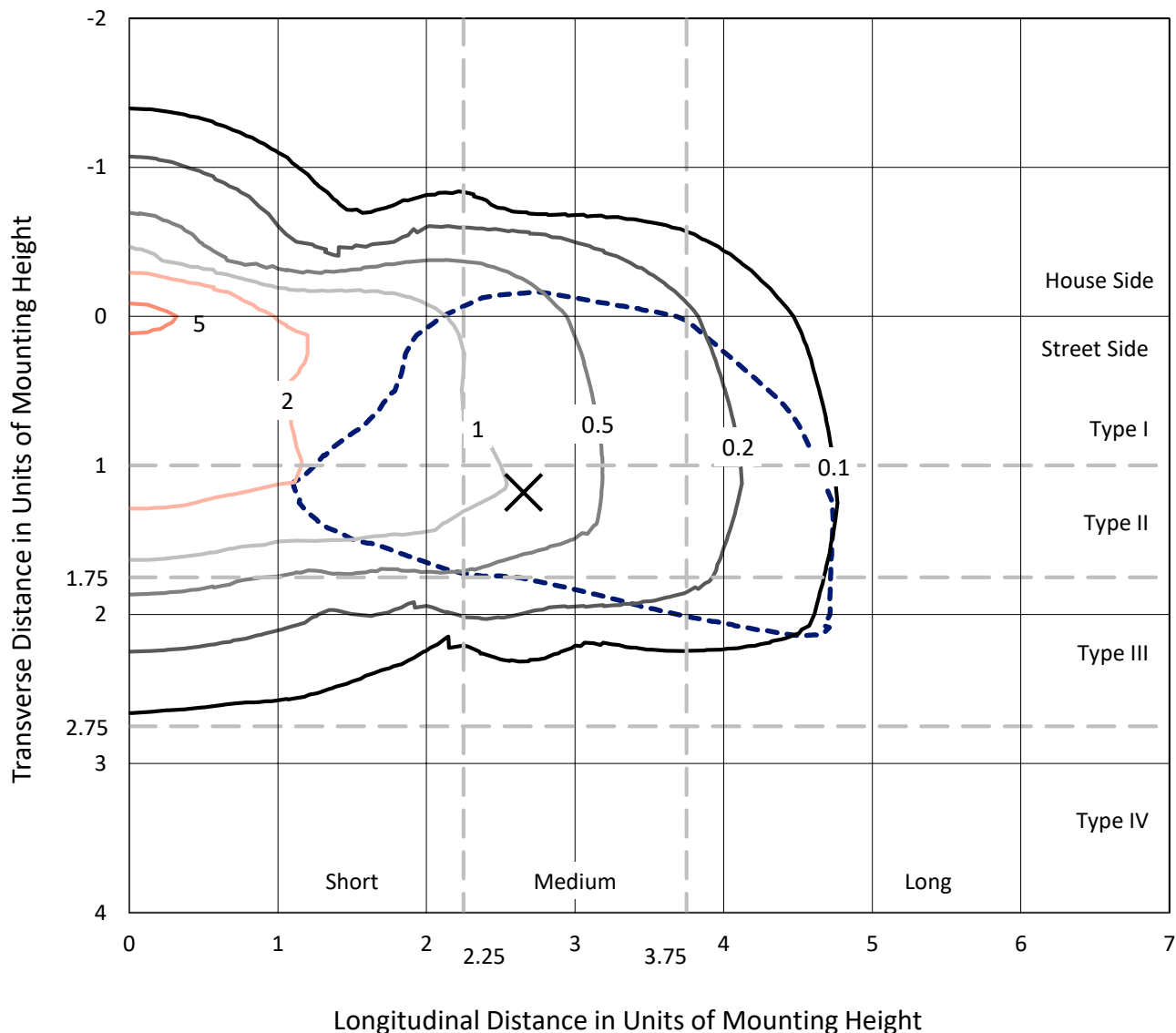
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

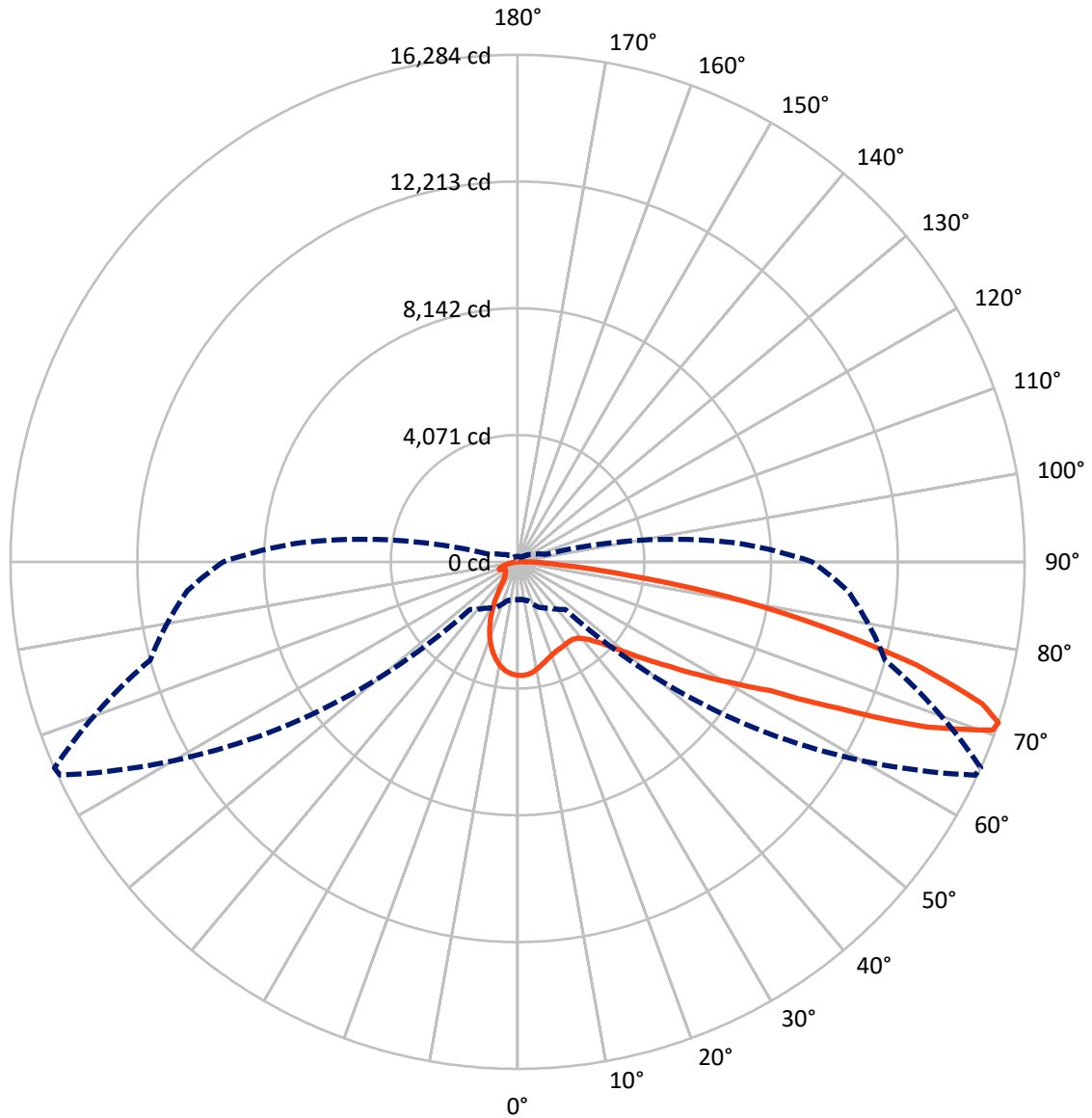
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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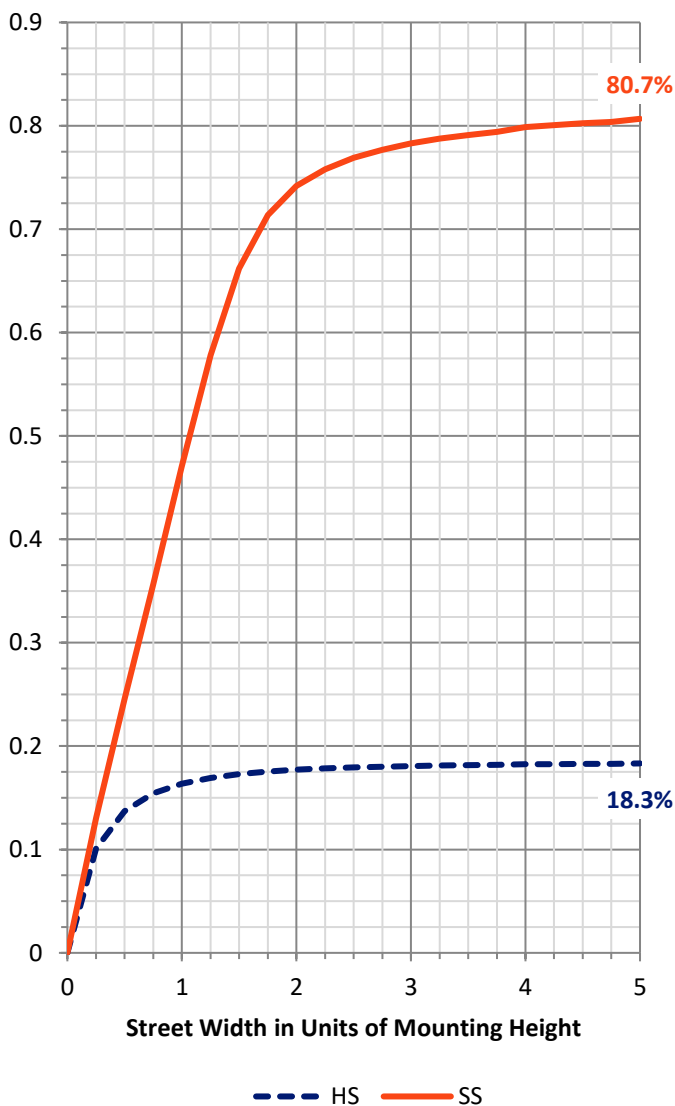
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2950.6	0.0	2950.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	12970.5	0.0	12970.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	15921.1	0.0	15921.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.0	2.0
10°-20°	770.0	4.8
20°-30°	1034.3	6.5
30°-40°	1360.6	8.5
40°-50°	1979.3	12.4
50°-60°	3091.9	19.4
60°-70°	3873.1	24.3
70°-80°	2954.3	18.6
80°-90°	536.5	3.4
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°	15921.1	100.0
0°-180°	15921.1	100.0

Coefficient of Utilization

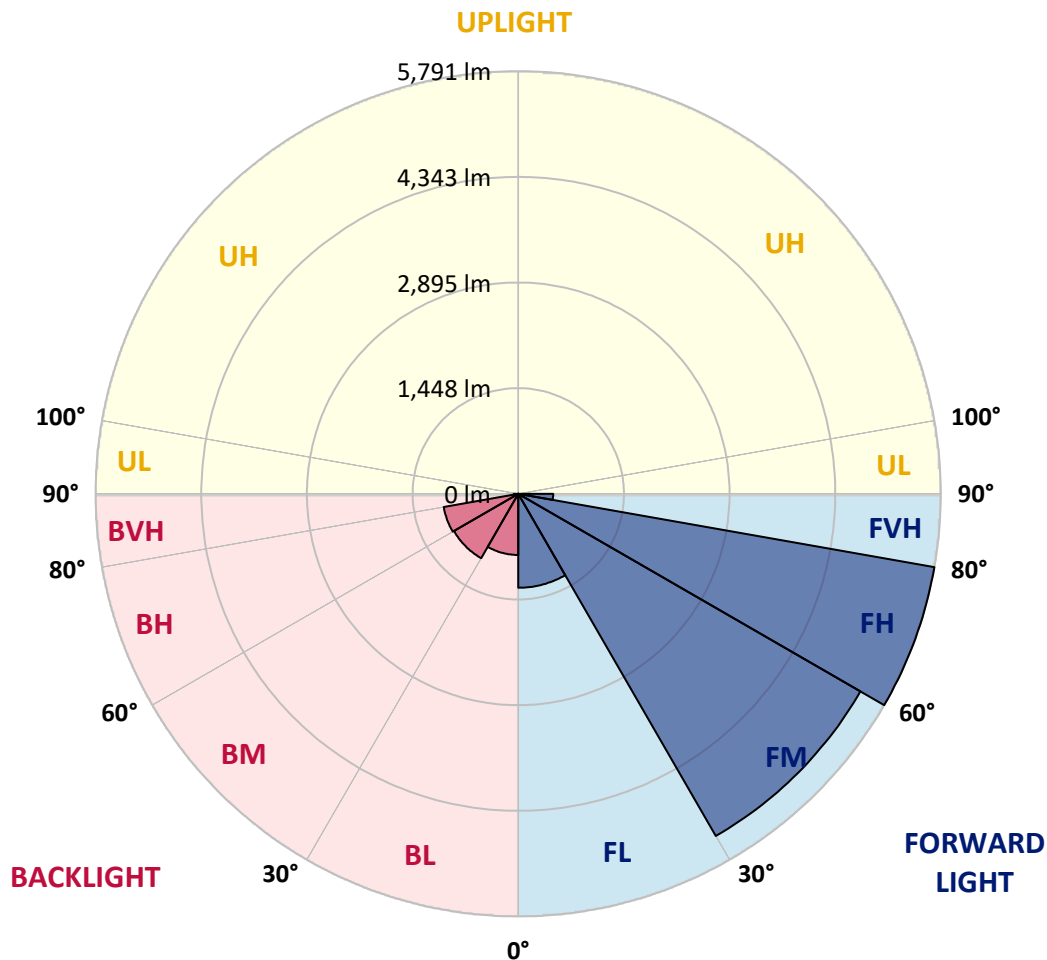


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.4	8.1			
FM (30°-60°)	5414.0	34.0			
FH (60°-80°)	5790.7	36.4			G3/7500
FVH (80°-90°)	478.4	3.0			G3/500
BL (0°-30°)	837.9	5.3	B2/1000		
BM (30°-60°)	1017.9	6.4	B2/2500		
BH (60°-80°)	1036.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	58.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2
2.5°	3579.6	3574.1	3590.6	3607.6	3614.2	3625.2	3641.7	3651.0	3650.5	3652.1	3646.6
5°	3342.1	3334.9	3368.0	3394.9	3446.5	3504.9	3575.7	3626.3	3627.4	3656.0	3663.7
7.5°	3117.3	3112.4	3150.3	3193.7	3253.6	3342.7	3457.5	3566.4	3573.0	3650.5	3677.5
10°	2937.0	2935.9	2972.8	3020.0	3089.9	3189.3	3321.2	3480.6	3490.5	3624.1	3679.6
12.5°	2796.3	2798.5	2830.4	2884.3	2957.9	3061.8	3204.7	3384.5	3400.4	3582.4	3667.0
15°	2692.4	2701.2	2727.0	2781.4	2854.0	2959.5	3106.3	3295.4	3319.6	3535.6	3659.9
17.5°	2633.0	2642.9	2661.1	2706.1	2774.3	2876.0	3015.0	3222.3	3244.3	3499.9	3660.4
20°	2615.4	2623.7	2634.1	2661.6	2719.4	2811.7	2943.0	3156.4	3179.9	3471.3	3665.9
22.5°	2650.1	2656.1	2657.2	2655.0	2690.2	2765.5	2890.9	3107.9	3133.3	3452.6	3669.7
25°	2724.3	2732.5	2726.5	2706.1	2694.6	2740.8	2863.9	3076.1	3101.4	3438.9	3662.0
27.5°	2835.9	2836.9	2832.0	2805.6	2751.2	2743.5	2855.7	3057.4	3081.6	3423.0	3646.1
30°	2987.6	2994.7	2985.9	2950.2	2861.2	2787.5	2865.5	3039.3	3061.3	3402.6	3620.3
32.5°	3165.1	3182.7	3182.2	3144.8	3017.3	2885.8	2906.2	3028.3	3045.3	3381.1	3589.0
35°	3349.3	3373.5	3418.5	3402.6	3244.9	3041.4	2984.3	3045.9	3057.4	3378.4	3567.0
37.5°	3540.5	3564.8	3657.6	3700.6	3515.8	3264.0	3107.5	3107.9	3113.4	3412.0	3565.3
40°	3740.6	3766.5	3906.1	4017.7	3867.1	3546.0	3305.9	3237.7	3231.6	3494.4	3597.7
42.5°	4021.0	4044.1	4211.7	4354.1	4256.8	3907.2	3580.1	3437.8	3425.1	3656.0	3701.6
45°	4375.6	4395.3	4573.4	4725.7	4675.7	4319.5	3924.8	3713.1	3711.0	3925.4	3912.1
47.5°	4797.2	4812.6	4972.5	5119.9	5138.0	4793.8	4358.0	4138.1	4102.3	4294.7	4238.2
50°	5236.4	5253.4	5362.3	5520.5	5655.2	5428.8	4915.3	4658.7	4610.8	4782.3	4699.8
52.5°	5527.2	5549.7	5644.2	5844.9	6236.8	6124.6	5574.5	5289.7	5217.1	5373.3	5310.0
55°	5397.4	5448.0	5592.5	5914.1	6701.8	7187.8	6387.4	6025.7	5943.8	6073.6	6036.1
57.5°	4807.6	4876.8	5074.2	5570.6	6767.2	8124.5	7616.5	6892.6	6834.9	6797.5	6814.6
60°	3729.6	3796.1	4040.8	4687.7	6311.6	8808.2	9466.3	7961.2	7877.6	7524.2	7539.6
62.5°	2639.6	2606.1	2773.8	3247.0	5128.6	8888.5	11571.0	9390.4	9115.6	8291.5	8224.0
65°	2013.0	2005.2	2080.6	2231.2	3106.3	7928.2	12824.9	11792.6	11363.2	9194.2	9034.7
67.5°	1654.1	1640.3	1714.5	1933.8	2000.3	5114.8	12852.4	14579.5	14157.8	10317.7	9972.5
70°	1360.0	1344.5	1413.8	1696.9	1848.7	2594.0	10816.9	16211.5	16189.0	11740.3	10680.6
71°	1219.2	1208.2	1291.2	1605.6	1816.1	2161.9	9339.3	16215.9	16283.5	12221.9	10638.7
72.5°	992.8	996.6	1084.5	1429.2	1792.0	1909.1	6864.0	15460.2	15603.0	12680.9	10258.9
75°	659.6	662.9	778.4	1099.4	1737.6	1867.8	3772.6	12972.7	13235.5	12406.0	9361.3
77.5°	443.0	441.9	520.5	754.2	1513.9	1867.8	2212.0	9702.6	9991.2	9871.4	7216.9
80°	305.1	302.8	358.4	520.5	1146.1	1890.4	1710.1	6799.7	6887.1	5330.9	2933.2
82.5°	186.9	188.5	234.2	367.8	780.0	1701.3	1614.5	3707.7	3612.5	1495.1	732.8
85°	107.2	106.7	149.5	249.0	500.8	1435.8	1574.3	1595.7	1463.8	450.2	264.9
87.5°	38.5	41.3	80.3	138.0	286.9	999.9	1335.7	830.0	748.1	203.4	119.8
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°	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2	3647.2
2.5°	3642.8	3646.1	3642.3	3620.3	3601.5	3571.4	3554.3	3530.7	3523.5	3520.2	3529.0
5°	3656.5	3657.6	3625.2	3567.5	3502.6	3426.2	3371.3	3303.6	3271.8	3258.0	3266.8
7.5°	3669.2	3664.2	3593.4	3482.9	3363.0	3230.0	3111.8	3003.5	2940.3	2914.4	2916.7
10°	3670.9	3650.0	3536.2	3365.2	3179.5	2984.3	2802.8	2635.8	2530.3	2461.5	2482.4
12.5°	3653.8	3618.6	3452.0	3212.9	2955.1	2689.1	2443.9	2193.2	2042.7	1972.8	1975.1
15°	3640.6	3576.9	3348.7	3033.8	2687.4	2335.1	2000.3	1705.7	1545.2	1473.7	1440.2
17.5°	3629.6	3531.8	3228.9	2832.0	2371.3	1924.5	1522.1	1259.4	1171.4	1150.5	1141.7
20°	3614.2	3484.0	3095.3	2598.4	2011.3	1465.0	1111.5	981.8	982.3	1006.4	1009.8
22.5°	3592.8	3429.5	2952.9	2336.2	1624.9	1067.0	871.3	833.9	871.8	917.9	926.2
25°	3560.9	3365.2	2794.6	2046.5	1239.1	820.1	744.3	742.6	788.8	837.2	844.4
27.5°	3515.8	3281.1	2618.8	1735.4	913.0	697.0	666.8	678.4	712.4	747.6	750.4
30°	3455.4	3183.3	2424.7	1407.2	715.7	620.6	617.3	627.8	648.6	673.4	675.6
32.5°	3388.9	3083.8	2217.5	1089.4	612.9	579.4	582.7	587.6	597.5	607.4	609.6
35°	3328.4	2982.1	2005.2	827.9	564.0	552.4	550.3	549.1	550.3	546.9	547.5
37.5°	3289.4	2898.0	1784.3	659.1	535.9	528.8	522.2	513.9	504.6	499.1	500.2
40°	3275.0	2835.4	1560.6	569.5	512.8	507.9	495.3	477.7	466.7	463.4	463.4
42.5°	3313.5	2802.8	1344.5	524.4	493.6	485.3	464.5	444.2	435.9	435.3	434.8
45°	3431.2	2816.1	1139.0	499.7	476.0	460.1	432.6	415.6	410.1	411.2	410.6
47.5°	3642.3	2899.1	963.0	483.2	458.4	437.5	406.8	393.0	386.4	386.4	387.0
50°	4001.2	3093.1	822.9	469.4	443.6	416.7	388.1	371.0	362.3	361.7	361.7
52.5°	4524.0	3440.5	735.5	457.9	427.1	398.0	369.4	347.9	337.5	335.4	334.2
55°	5179.2	3938.6	711.3	450.2	405.1	377.6	346.8	325.4	313.8	308.9	308.3
57.5°	5912.0	4544.3	759.1	440.8	382.6	353.4	322.1	301.8	289.7	283.7	283.1
60°	6653.5	5205.6	954.3	427.7	363.9	327.1	296.8	278.2	266.0	259.4	258.3
62.5°	7396.1	5902.6	1352.8	426.6	350.7	301.8	271.0	255.1	243.5	236.3	234.7
65°	8233.9	6665.6	1805.7	455.7	346.3	278.7	244.6	232.0	222.1	215.5	214.9
67.5°	9195.8	7526.9	1762.3	515.6	361.2	257.9	219.8	210.0	202.8	197.3	196.8
70°	9647.1	7392.3	1095.5	557.9	382.0	237.5	196.3	189.1	183.6	179.8	178.1
71°	9458.0	7019.0	918.5	553.0	379.8	228.7	186.9	181.4	175.9	172.6	170.9
72.5°	8942.4	6401.1	766.3	514.5	355.1	212.8	174.8	169.3	164.3	160.5	159.4
75°	8024.4	5716.8	613.4	411.2	283.1	179.8	153.3	147.3	143.5	141.3	139.1
77.5°	5898.7	4079.8	474.3	324.8	208.3	146.8	130.8	126.4	122.6	119.2	117.7
80°	2259.7	1580.4	319.3	242.4	152.8	116.0	105.5	103.3	99.5	97.3	97.3
82.5°	608.5	472.2	170.4	146.8	102.3	84.7	80.8	79.7	76.4	72.0	72.6
85°	246.3	208.3	95.7	80.8	62.7	50.0	54.4	55.0	51.1	45.6	46.2
87.5°	108.2	88.5	53.3	35.8	27.5	19.3	24.8	24.8	22.5	18.7	17.0
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)