

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: P382943

Luminaire Tested: **GLEON-SA3A-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13255 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

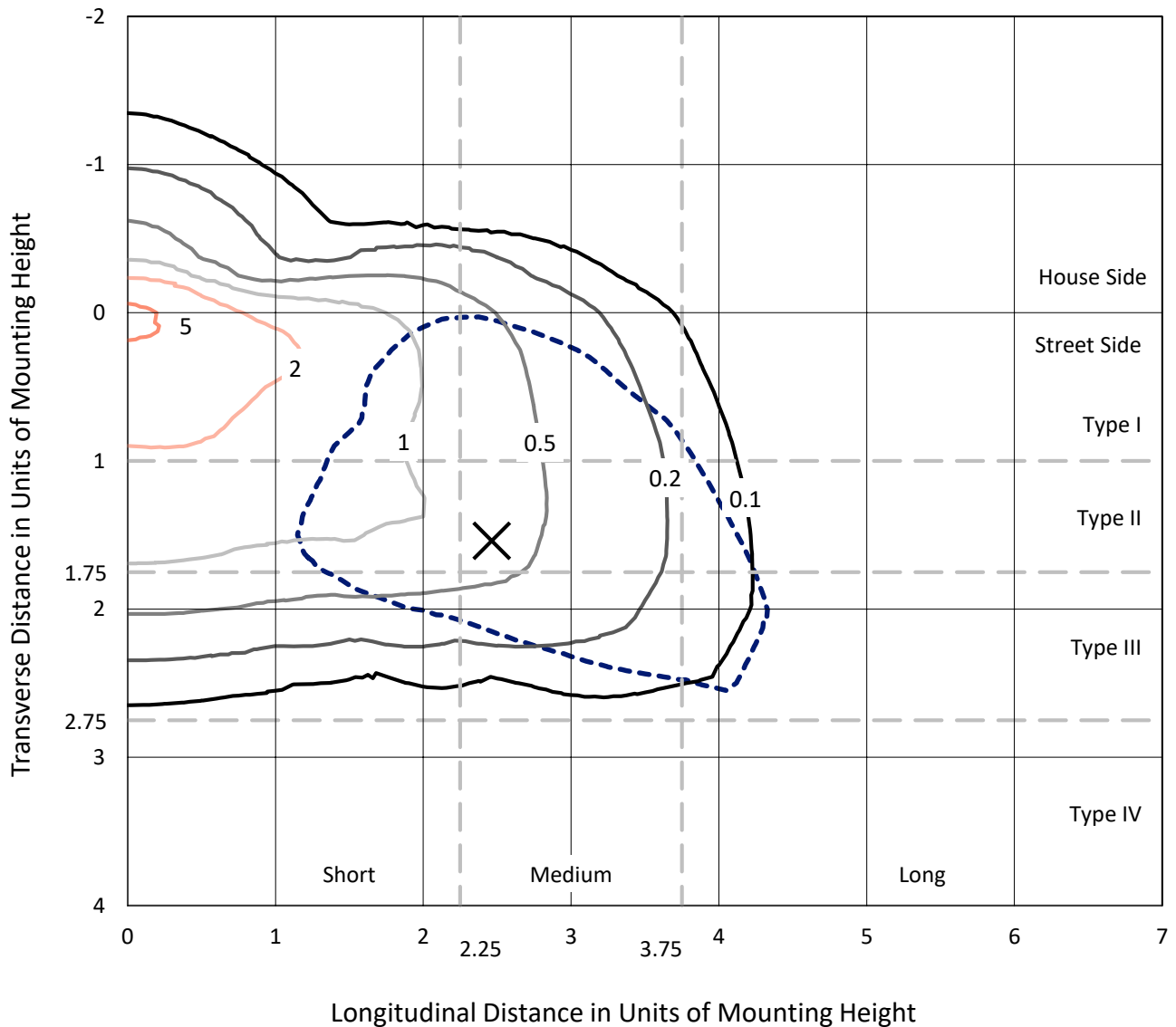
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

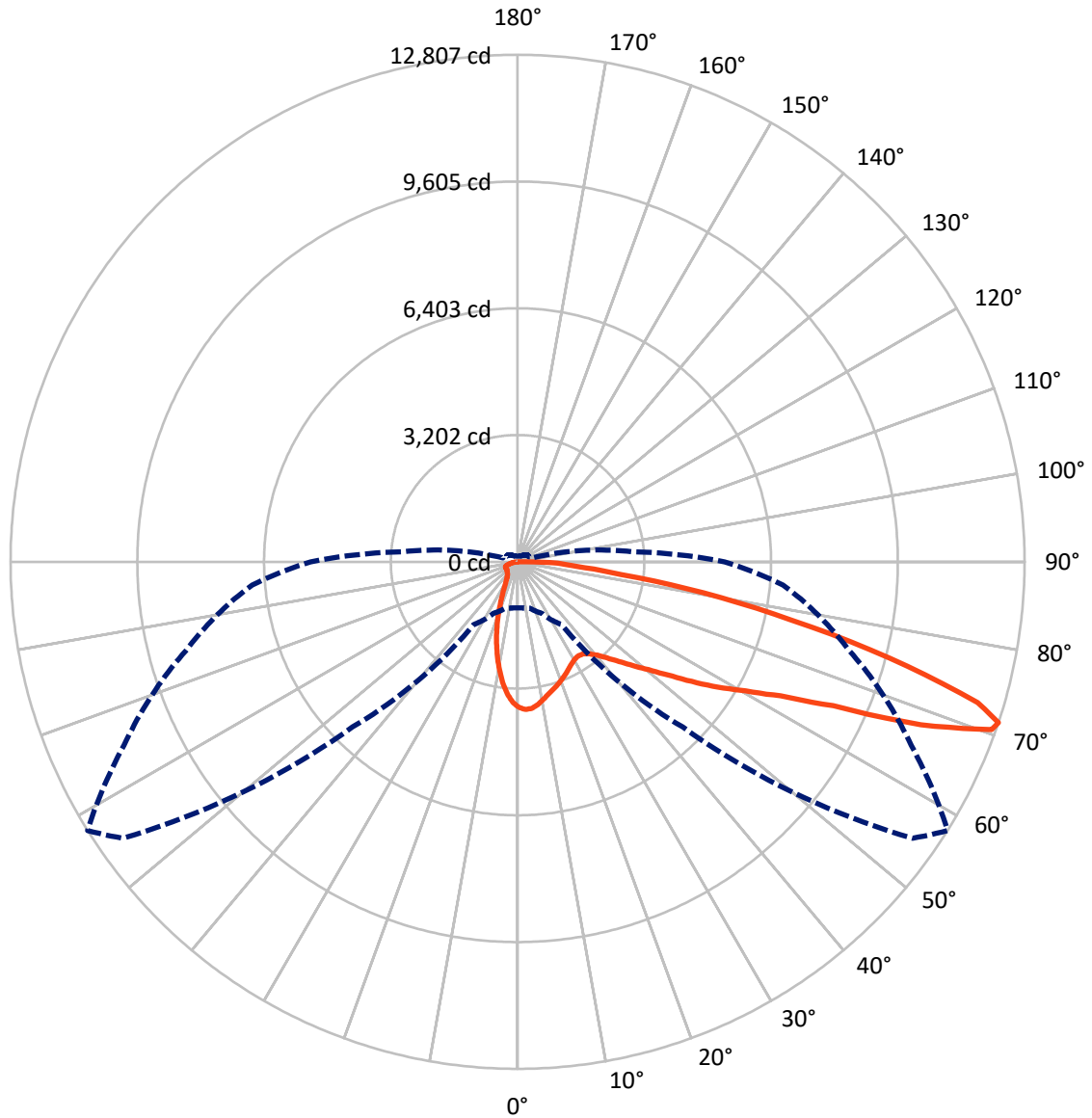
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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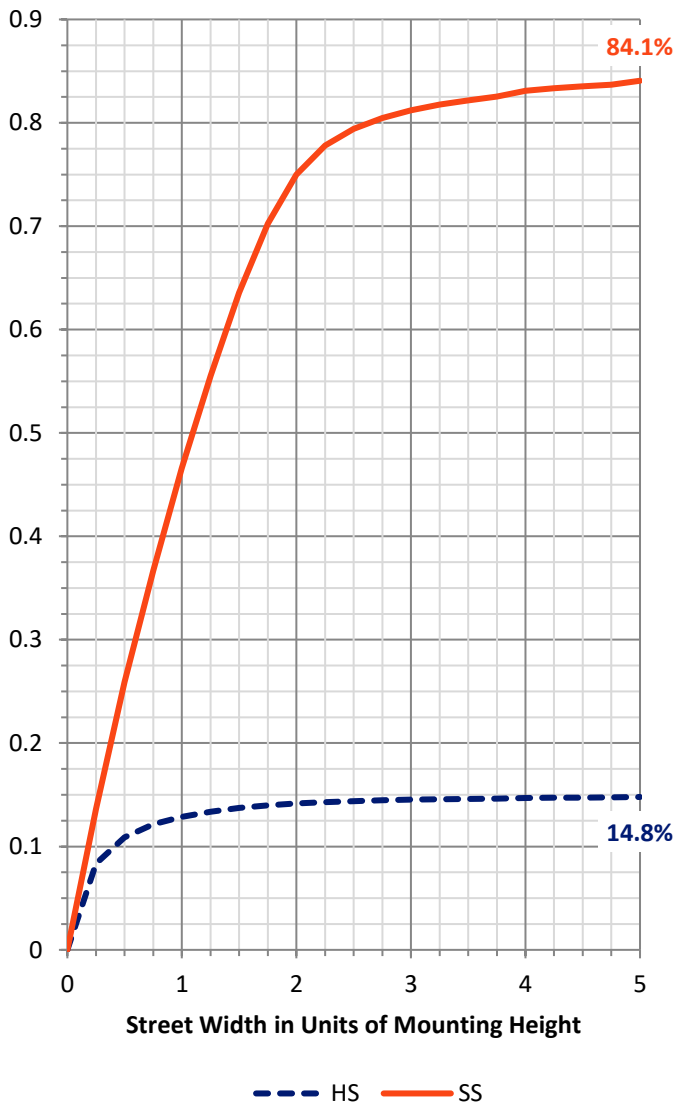
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1981.7	0.0	1981.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	11273.3	0.0	11273.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	13255.0	0.0	13255.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.8	2.4
10°-20°	704.5	5.3
20°-30°	895.4	6.8
30°-40°	1140.5	8.6
40°-50°	1617.3	12.2
50°-60°	2502.8	18.9
60°-70°	3407.3	25.7
70°-80°	2273.0	17.1
80°-90°	397.4	3.0
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°	13255.0	100.0
0°-180°	13255.0	100.0

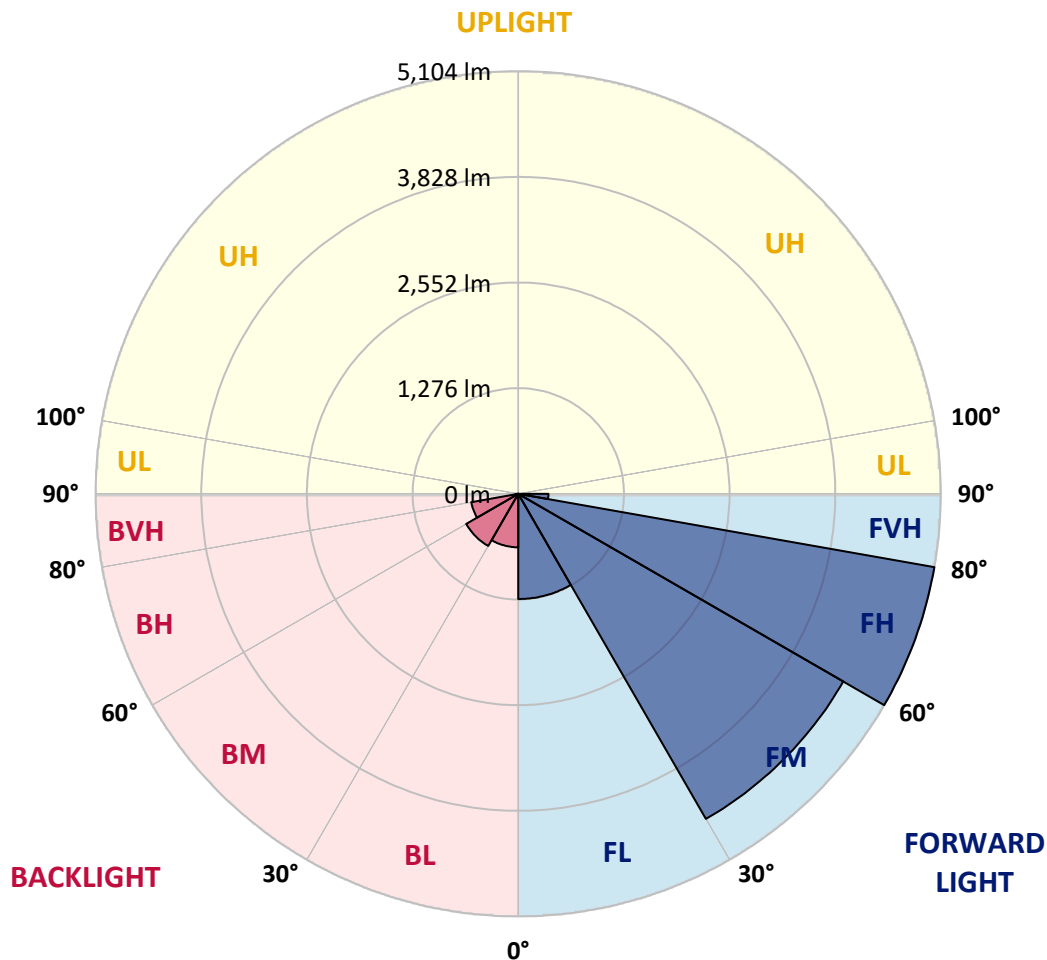


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1270.7	9.6			
FM (30°-60°)	4533.8	34.2			
FH (60°-80°)	5104.3	38.5			G3/7500
FVH (80°-90°)	364.4	2.7			G3/500
BL (0°-30°)	646.0	4.9	B2/1000		
BM (30°-60°)	726.8	5.5	B1/1000		
BH (60°-80°)	576.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	33.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5
2.5°	3770.0	3764.8	3766.7	3763.0	3754.2	3745.5	3732.5	3734.9	3716.9	3690.0	3656.8
5°	3698.8	3697.0	3710.8	3718.6	3725.2	3720.0	3716.4	3721.0	3694.7	3657.7	3600.1
7.5°	3549.7	3529.4	3547.0	3573.2	3598.2	3617.1	3642.1	3645.2	3628.7	3589.9	3514.2
10°	3337.7	3318.4	3344.3	3385.3	3435.2	3480.4	3530.8	3540.0	3543.2	3508.1	3416.3
12.5°	3118.0	3103.3	3129.1	3186.8	3269.5	3339.1	3419.5	3433.3	3462.0	3438.4	3325.8
15°	2921.3	2915.7	2947.1	3004.0	3099.1	3205.7	3321.6	3347.1	3395.5	3387.7	3255.1
17.5°	2751.4	2750.0	2774.1	2833.6	2938.8	3073.6	3224.2	3267.1	3339.1	3348.4	3197.0
20°	2624.9	2622.1	2638.7	2682.6	2791.1	2944.0	3118.9	3178.0	3281.9	3314.3	3136.9
22.5°	2557.0	2556.5	2557.0	2577.8	2666.5	2808.6	3016.4	3088.5	3226.0	3287.0	3070.5
25°	2545.5	2544.1	2533.9	2531.6	2582.0	2695.5	2914.8	2994.3	3172.9	3268.1	3007.2
27.5°	2575.4	2577.3	2563.9	2542.2	2552.3	2621.2	2826.7	2911.6	3130.5	3264.3	2963.3
30°	2637.8	2636.8	2625.4	2602.7	2582.9	2593.5	2763.8	2848.8	3101.9	3280.5	2933.4
32.5°	2706.6	2711.6	2709.4	2696.9	2667.4	2624.9	2744.9	2828.0	3093.5	3319.3	2920.4
35°	2789.2	2794.8	2811.4	2821.1	2786.4	2718.2	2785.5	2857.6	3117.5	3392.2	2941.2
37.5°	2867.8	2882.0	2928.7	2969.8	2940.2	2864.0	2893.6	2944.8	3191.9	3507.2	2997.1
40°	2958.2	2970.7	3046.9	3134.2	3129.5	3050.5	3067.7	3101.9	3323.0	3672.1	3098.1
42.5°	3047.4	3072.2	3182.6	3306.3	3341.9	3272.2	3299.4	3317.4	3507.6	3890.4	3274.5
45°	3166.1	3192.8	3346.1	3495.3	3578.4	3539.0	3582.5	3589.4	3739.9	4187.8	3530.8
47.5°	3345.7	3376.1	3554.8	3711.3	3838.3	3842.4	3914.0	3911.2	4029.9	4528.1	3853.5
50°	3625.4	3669.3	3815.6	3962.1	4116.2	4202.1	4297.7	4284.3	4377.5	4890.5	4225.2
52.5°	3992.1	4012.4	4120.9	4228.9	4420.5	4613.0	4750.1	4738.1	4771.9	5263.2	4647.2
55°	4372.0	4387.2	4432.0	4491.2	4748.8	5062.8	5352.7	5333.8	5248.3	5650.0	5064.2
57.5°	4713.7	4744.7	4775.6	4800.1	5079.4	5532.8	5969.1	5970.5	5765.5	6067.4	5494.9
60°	4766.8	4794.0	4998.6	5191.6	5645.0	6159.8	6628.9	6615.0	6300.6	6520.4	5975.1
62.5°	4213.7	4275.1	4616.7	5130.1	6189.9	7306.7	7470.6	7453.5	6940.6	7078.6	6534.2
65°	3019.6	3089.4	3501.7	4273.2	5925.7	8570.4	8989.7	8759.7	7813.3	7765.2	7188.9
67.5°	1742.1	1758.7	1937.3	2557.0	4512.0	8636.5	11307.0	10985.3	9168.4	8544.2	7509.4
70°	1288.2	1287.8	1330.2	1573.6	2441.6	7048.6	12409.1	12697.7	10595.0	8800.4	7056.5
71°	1164.9	1166.3	1213.9	1432.3	1933.7	5899.9	12175.0	12806.7	10970.9	8673.8	6728.7
72.5°	996.4	1001.0	1067.0	1284.5	1626.7	4068.7	11166.6	12153.0	11149.1	8361.8	6215.7
75°	755.9	766.5	857.9	1082.7	1486.7	2063.5	8195.6	9704.4	9904.3	7378.3	4618.6
77.5°	539.3	551.3	654.7	910.5	1413.3	1555.0	5488.5	7078.6	7288.7	4728.4	2083.3
80°	340.8	355.1	433.1	724.5	1327.9	1476.6	3449.1	4758.1	3974.4	1513.0	530.1
82.5°	199.9	211.0	268.8	473.2	1084.6	1422.1	2029.3	2637.3	1546.7	457.1	241.0
85°	115.9	121.0	167.6	301.5	787.7	1342.2	1490.8	1474.3	671.4	223.5	114.0
87.5°	54.0	60.0	99.3	157.4	437.3	972.8	1178.3	1018.1	417.4	104.8	53.6
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°	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5
2.5°	3640.7	3632.8	3600.1	3570.9	3540.4	3500.8	3456.9	3451.4	3424.6	3429.7	3420.5
5°	3568.7	3548.8	3469.8	3398.3	3313.8	3238.1	3155.9	3118.0	3063.5	3059.9	3046.0
7.5°	3465.6	3428.7	3306.3	3170.6	3034.9	2905.6	2777.7	2693.7	2607.8	2571.4	2568.1
10°	3349.8	3287.0	3106.9	2906.1	2710.3	2521.4	2338.7	2203.3	2081.4	2023.7	2021.4
12.5°	3239.9	3147.0	2900.1	2626.7	2359.0	2114.2	1863.5	1685.7	1533.0	1481.6	1459.9
15°	3146.6	3016.0	2698.8	2349.3	2024.2	1684.3	1399.0	1212.0	1070.7	1021.8	1012.6
17.5°	3056.1	2888.1	2492.4	2069.0	1676.0	1302.5	1016.7	877.7	802.4	782.6	782.1
20°	2966.0	2756.4	2276.7	1782.2	1339.5	974.2	781.7	719.3	694.0	691.7	687.9
22.5°	2864.0	2617.0	2050.1	1494.6	1045.3	766.0	664.4	639.5	636.2	644.5	644.5
25°	2768.5	2478.5	1820.1	1213.0	813.1	639.0	593.3	588.3	597.0	611.7	613.1
27.5°	2679.3	2345.1	1595.7	962.7	651.5	562.8	543.9	549.9	565.6	582.7	583.1
30°	2605.9	2219.0	1377.8	758.6	550.4	506.0	502.8	514.8	531.9	545.3	548.5
32.5°	2549.2	2111.4	1167.2	610.0	484.3	463.5	466.3	476.5	487.1	494.5	499.6
35°	2522.8	2019.1	972.8	514.4	442.3	430.7	434.5	440.1	444.6	450.2	454.3
37.5°	2527.5	1947.5	799.3	454.8	414.2	408.2	408.2	408.2	408.2	410.9	411.4
40°	2570.4	1906.4	658.0	417.0	395.3	388.7	383.7	379.0	375.4	377.2	376.3
42.5°	2680.2	1902.8	554.6	392.9	380.0	369.4	359.2	352.8	348.1	350.0	350.9
45°	2866.8	1948.9	484.8	375.9	365.7	349.5	336.6	329.7	326.4	332.5	333.4
47.5°	3108.3	2049.6	442.3	363.4	352.3	331.1	317.2	310.8	311.7	320.5	322.8
50°	3419.5	2213.0	422.0	355.5	343.1	315.3	301.1	295.5	298.3	310.8	313.5
52.5°	3761.1	2448.5	424.3	353.2	337.0	303.8	288.6	282.1	286.7	298.3	300.6
55°	4155.4	2731.6	462.6	356.4	328.3	296.4	278.4	267.4	271.0	281.6	283.5
57.5°	4593.6	3055.7	539.7	355.5	317.2	289.5	267.8	251.1	253.9	260.4	262.2
60°	5049.8	3447.2	659.3	358.3	312.2	281.1	253.5	232.7	231.8	237.4	238.3
62.5°	5597.4	3900.1	796.0	360.1	315.3	270.5	234.6	214.3	211.5	212.9	213.8
65°	6161.6	4227.9	744.8	352.8	325.5	261.8	217.9	196.3	191.2	190.2	190.7
67.5°	6179.2	3876.6	522.2	338.0	329.7	257.2	205.5	181.0	172.7	169.4	169.0
70°	5541.6	3149.4	406.8	322.3	313.0	249.7	193.9	168.5	156.0	151.0	150.5
71°	5230.4	2899.2	385.6	314.4	300.6	242.4	188.8	163.0	150.1	144.5	143.6
72.5°	4742.3	2599.0	359.7	302.0	276.6	223.5	179.1	155.1	141.8	135.3	133.9
75°	3403.3	1699.6	308.9	269.2	229.0	178.2	157.0	139.5	127.9	120.1	119.1
77.5°	1311.2	676.4	233.6	223.9	175.4	139.5	129.3	120.5	112.2	104.3	103.9
80°	405.4	302.4	170.4	168.5	127.0	103.9	100.7	98.4	95.1	86.8	85.0
82.5°	216.6	173.6	117.3	109.0	83.1	69.2	72.9	73.9	74.3	65.6	64.6
85°	103.4	91.9	66.0	61.9	48.4	38.8	44.8	48.4	48.9	40.1	37.4
87.5°	49.4	48.0	30.9	23.6	18.0	12.9	15.7	19.4	21.2	15.3	13.4
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)