

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: P528072

Luminaire Tested: **GALN-SA3A-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9056 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

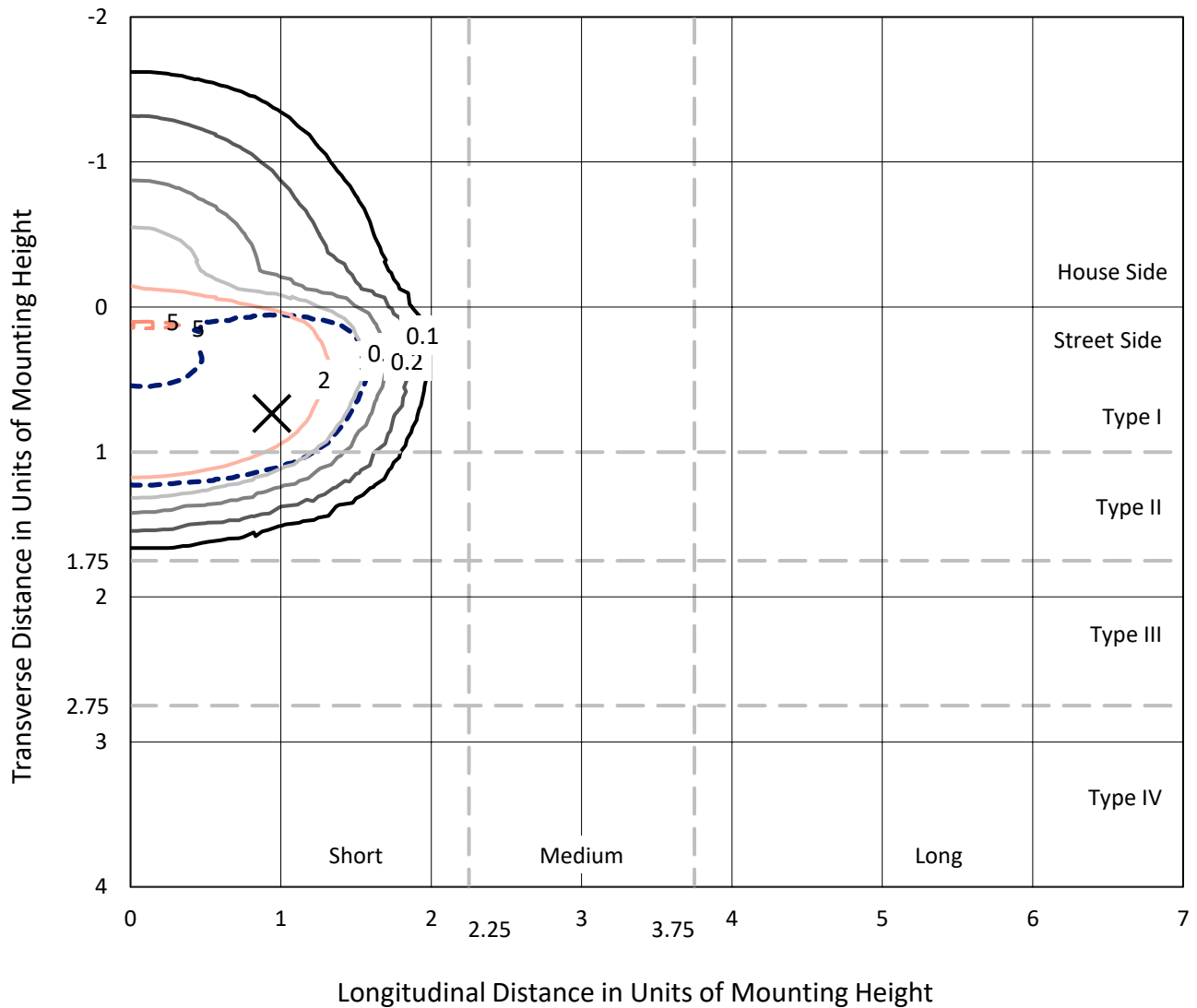
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

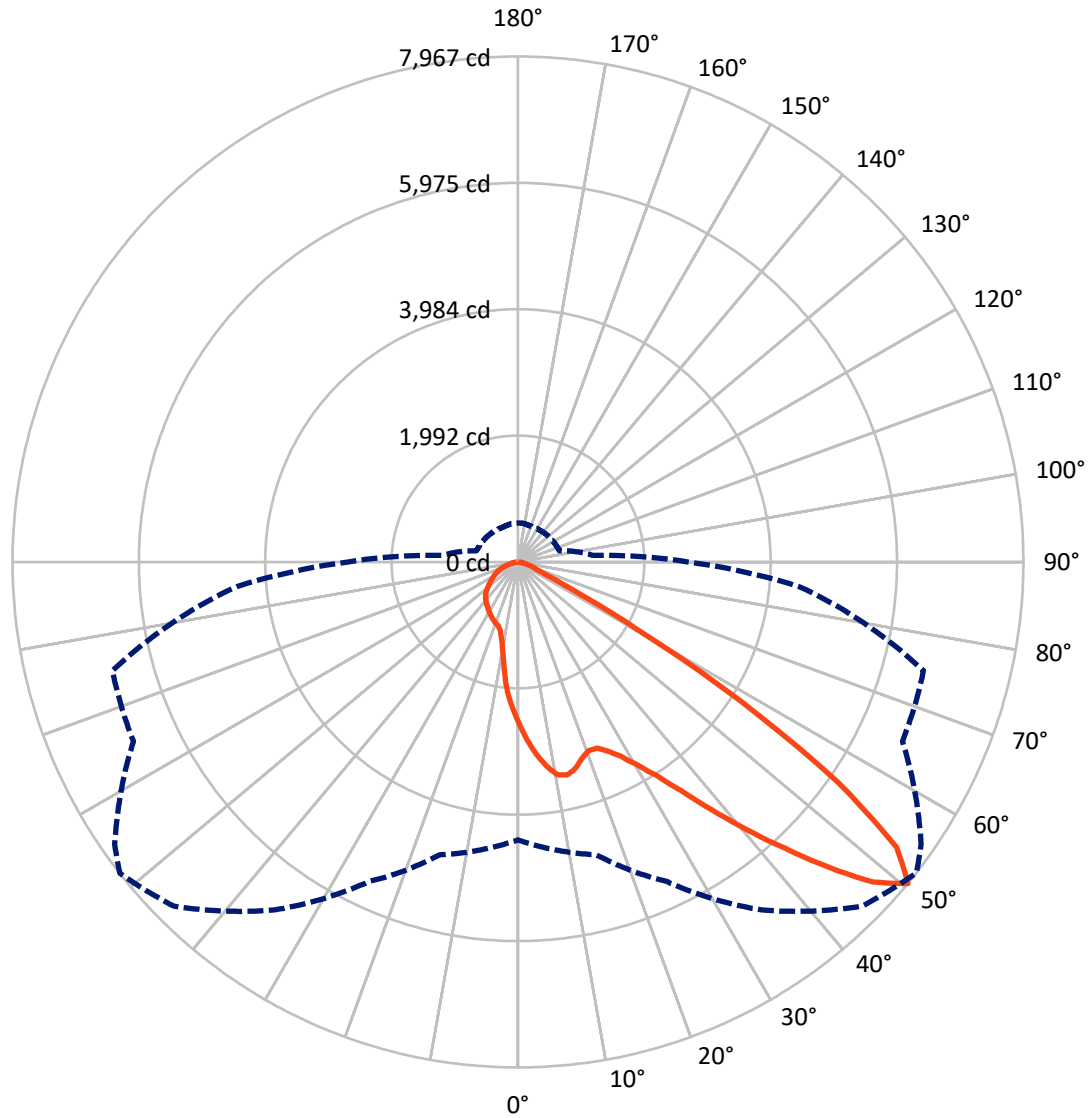
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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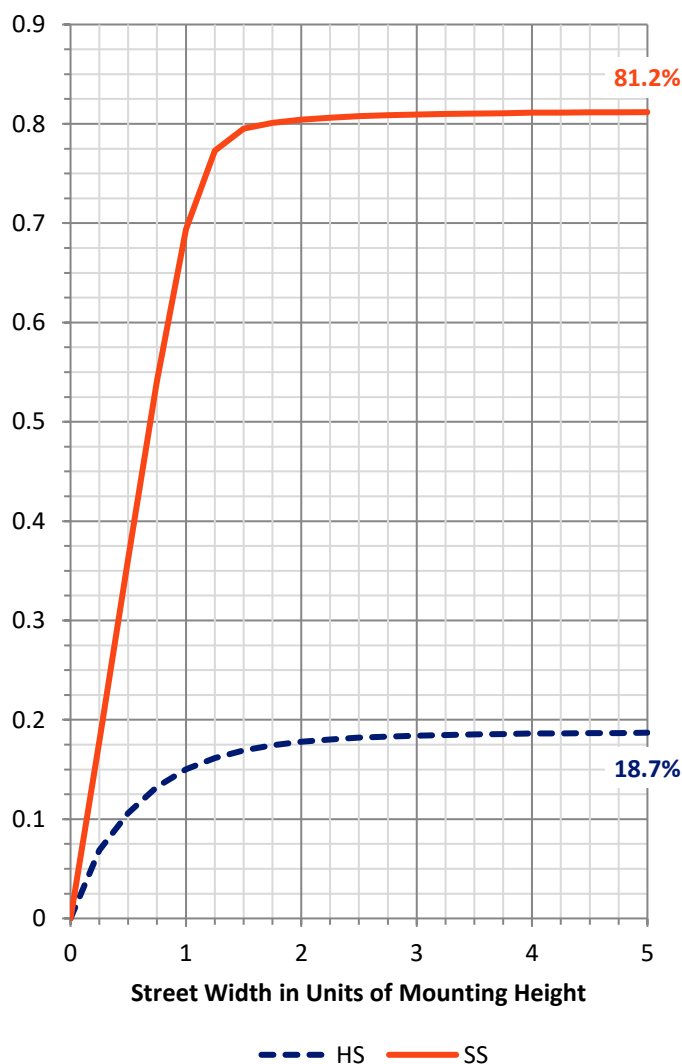
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1702.3	0.0	1702.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7353.7	0.0	7353.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	9056.0	0.0	9056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.3	2.6
10°-20°	630.6	7.0
20°-30°	1062.3	11.7
30°-40°	1782.6	19.7
40°-50°	2726.9	30.1
50°-60°	1988.1	22.0
60°-70°	442.5	4.9
70°-80°	159.6	1.8
80°-90°	28.2	0.3
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°	9056.0	100.0
0°-180°	9056.0	100.0

Coefficient of Utilization



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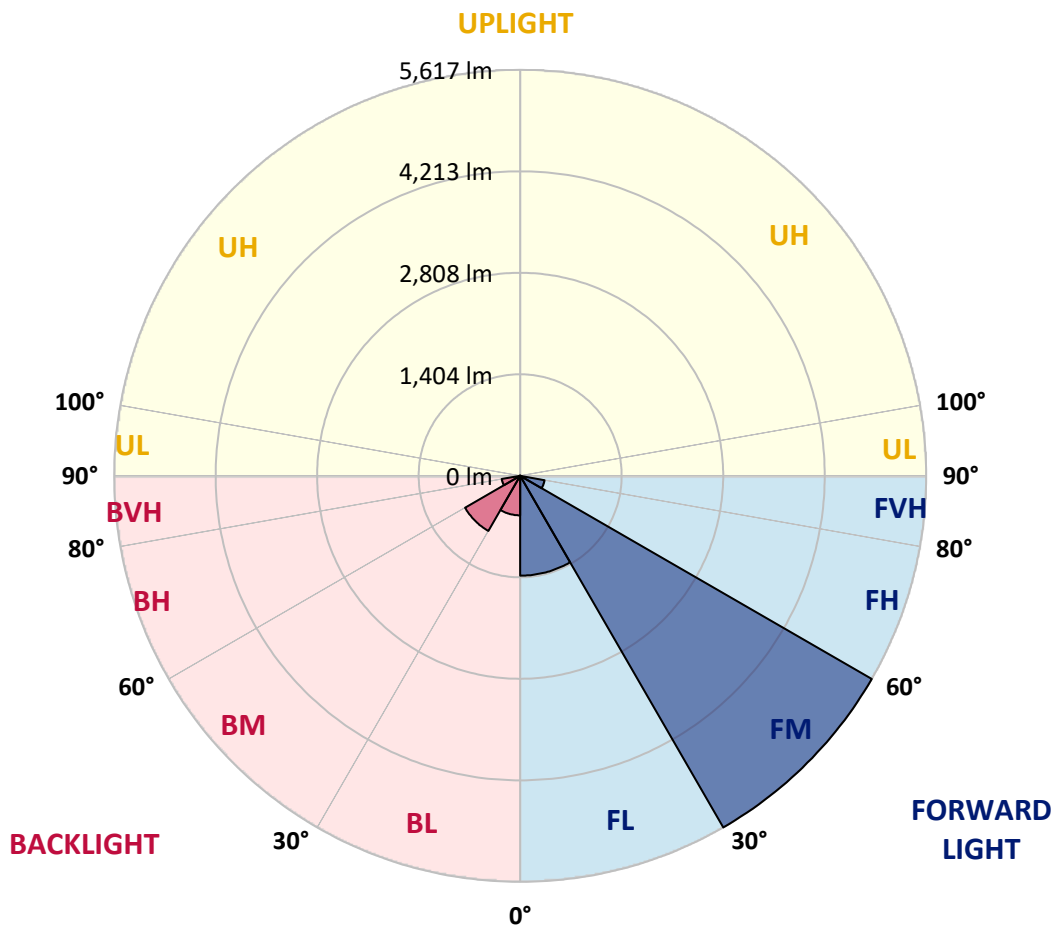
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1381.3	15.3			
FM (30°-60°)	5617.0	62.0			
FH (60°-80°)	342.7	3.8			G0/660
FVH (80°-90°)	12.7	0.1			G1/100
BL (0°-30°)	546.8	6.0	B2/1000		
BM (30°-60°)	880.6	9.7	B1/1000		
BH (60°-80°)	259.4	2.9	B1/500		G1/500
BVH (80°-90°)	15.6	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7
2.5°	3005.7	2947.8	2954.4	2912.9	2868.1	2855.0	2809.2	2765.6	2732.8	2663.0	2598.6
5°	3285.1	3267.6	3241.4	3208.7	3174.8	3091.9	3044.9	2990.4	2870.3	2762.3	2655.3
7.5°	3325.4	3322.2	3336.3	3336.3	3348.4	3316.7	3250.1	3211.9	3084.2	2908.5	2709.9
10°	3041.7	3051.5	3120.3	3209.7	3334.2	3420.4	3409.5	3399.6	3260.0	3019.8	2774.3
12.5°	2815.8	2793.9	2834.3	2910.7	3097.3	3305.8	3446.6	3447.7	3411.7	3197.7	2821.2
15°	2688.1	2703.3	2714.3	2750.3	2891.1	3132.3	3380.0	3453.1	3611.4	3323.3	2895.4
17.5°	2769.9	2718.6	2716.4	2725.2	2797.2	2978.4	3256.7	3382.2	3720.5	3484.8	2987.1
20°	2876.9	2875.8	2845.2	2834.3	2833.2	2994.7	3175.9	3346.2	3778.4	3694.3	3079.9
22.5°	3064.6	3064.6	3014.4	2990.4	2939.1	3071.1	3186.8	3302.5	3874.4	3838.4	3124.6
25°	3378.9	3327.6	3241.4	3182.5	3153.0	3199.9	3302.5	3406.2	3958.4	3991.2	3217.4
27.5°	3669.2	3588.5	3545.9	3444.4	3405.1	3377.8	3471.7	3576.5	4056.7	4229.1	3267.6
30°	3998.8	3984.6	3908.2	3777.3	3680.1	3629.9	3716.1	3819.8	4236.7	4472.5	3383.3
32.5°	4588.2	4459.4	4355.7	4195.3	4037.0	3930.1	4015.2	4083.9	4535.8	4726.8	3509.9
35°	5224.4	5183.0	5004.0	4714.8	4472.5	4376.4	4426.6	4477.9	4883.9	5115.3	3722.7
37.5°	5849.8	5793.0	5645.7	5402.3	5107.7	4912.3	4948.3	5008.3	5274.6	5639.2	3982.4
40°	6299.4	6229.6	6155.4	6119.4	5826.9	5559.5	5538.8	5554.0	5802.9	6130.3	4270.6
42.5°	6332.2	6418.4	6441.3	6586.5	6517.7	6298.4	6170.7	6173.9	6307.1	6615.9	4562.0
45°	6263.4	6183.8	6352.9	6749.1	6976.1	7078.7	6863.7	6836.4	6619.2	6897.5	4707.1
47.5°	5542.0	5563.9	5849.8	6476.2	7132.2	7590.5	7540.3	7449.8	6786.2	6887.7	4684.2
50°	4380.8	4512.9	4778.1	5558.4	6695.6	7671.3	7967.1	7757.5	6686.9	6617.0	4450.6
52.5°	2917.3	2971.8	3146.4	4153.8	5383.8	6857.1	7475.9	7524.0	6595.2	6262.3	4154.9
55°	1298.7	1294.4	1539.9	2169.7	3377.8	5217.9	6108.5	6400.9	6242.7	5901.1	3866.8
57.5°	550.1	568.6	669.0	937.5	1661.1	3148.6	4138.5	4395.0	4801.0	4845.7	2966.4
60°	372.2	374.3	401.6	469.3	695.2	1478.8	2170.8	2478.5	2768.8	2749.2	1573.8
62.5°	292.5	300.1	320.9	348.2	412.5	671.2	971.3	1142.7	1161.2	976.8	597.0
65°	249.9	251.0	271.8	294.7	323.0	390.7	468.2	476.9	482.4	464.9	438.7
67.5°	206.3	208.5	224.8	251.0	277.2	299.0	320.9	331.8	356.9	406.0	399.4
70°	163.7	167.0	181.2	203.0	227.0	240.1	267.4	277.2	300.1	338.3	353.6
72.5°	124.4	125.5	137.5	152.8	174.6	187.7	210.6	221.6	236.8	269.6	283.8
75°	89.5	92.8	101.5	109.1	112.4	121.1	143.0	155.0	176.8	191.0	192.1
77.5°	46.9	49.1	51.3	51.3	62.2	78.6	92.8	99.3	114.6	125.5	120.1
80°	18.6	19.6	25.1	33.8	43.7	56.8	66.6	69.8	82.9	89.5	92.8
82.5°	10.9	12.0	16.4	24.0	31.7	40.4	48.0	51.3	60.0	67.7	69.8
85°	5.5	6.5	9.8	15.3	20.7	25.1	24.0	22.9	22.9	21.8	22.9
87.5°	2.2	2.2	3.3	3.3	3.3	4.4	5.5	5.5	5.5	6.5	6.5
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°	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7
2.5°	2556.0	2512.4	2472.0	2397.8	2317.0	2294.1	2200.2	2166.4	2142.4	2114.0	2105.3
5°	2569.1	2511.3	2381.4	2231.9	2112.9	1960.1	1859.7	1751.7	1673.1	1653.4	1648.0
7.5°	2596.4	2497.1	2273.3	2047.4	1804.1	1596.7	1438.4	1353.3	1278.0	1273.6	1266.0
10°	2627.0	2454.5	2155.5	1800.8	1489.7	1297.7	1202.7	1165.6	1147.0	1142.7	1140.5
12.5°	2652.1	2445.8	2023.4	1560.7	1267.1	1151.4	1123.0	1119.8	1127.4	1129.6	1133.9
15°	2663.0	2410.9	1864.1	1345.7	1128.5	1085.9	1097.9	1111.0	1116.5	1130.7	1119.8
17.5°	2683.7	2366.1	1667.6	1175.4	1051.0	1058.6	1079.4	1094.7	1103.4	1113.2	1099.0
20°	2694.6	2325.7	1483.2	1073.9	1023.7	1037.9	1066.3	1078.3	1089.2	1093.6	1077.2
22.5°	2684.8	2242.8	1320.6	992.1	997.5	1016.1	1041.2	1054.3	1047.7	1030.3	1020.4
25°	2658.6	2126.0	1151.4	939.7	960.4	993.2	1012.8	1003.0	991.0	981.2	977.9
27.5°	2657.5	1983.0	1029.2	891.7	928.8	973.5	967.0	958.2	963.7	956.0	947.3
30°	2663.0	1844.4	928.8	864.4	905.8	927.7	935.3	926.6	933.1	918.9	923.3
32.5°	2634.6	1709.1	863.3	832.7	878.6	877.5	902.6	909.1	893.8	864.4	868.7
35°	2646.6	1600.0	807.6	818.5	848.0	848.0	867.6	860.0	819.6	802.2	806.5
37.5°	2729.5	1493.0	780.3	798.9	818.5	827.3	820.7	788.0	778.2	778.2	780.3
40°	2808.1	1401.3	764.0	794.5	791.3	796.7	748.7	752.0	752.0	753.1	747.6
42.5°	2878.0	1339.1	750.9	768.3	773.8	745.4	715.9	712.7	720.3	719.2	714.9
45°	2903.1	1287.8	732.3	738.9	743.2	696.3	682.1	675.6	684.3	687.6	691.9
47.5°	2807.0	1245.3	711.6	698.5	689.8	659.2	640.6	628.6	639.5	658.1	662.5
50°	2683.7	1189.6	678.8	653.7	635.2	622.1	609.0	597.0	604.6	617.7	614.4
52.5°	2501.4	1102.3	637.4	611.2	579.5	582.8	570.8	564.2	568.6	568.6	565.3
55°	2241.7	905.8	567.5	549.0	522.8	531.5	533.7	525.0	516.2	523.9	517.3
57.5°	1530.1	639.5	506.4	506.4	480.2	492.2	491.1	470.4	449.6	451.8	447.5
60°	885.1	509.7	467.1	462.7	435.5	445.3	447.5	433.3	401.6	403.8	399.4
62.5°	503.1	435.5	408.2	401.6	396.2	404.9	404.9	386.3	359.1	361.2	356.9
65°	427.8	403.8	364.5	363.4	361.2	363.4	354.7	335.1	311.0	301.2	302.3
67.5°	388.5	373.3	335.1	325.2	318.7	317.6	301.2	282.7	271.8	263.0	261.9
70°	340.5	328.5	300.1	287.0	280.5	265.2	248.8	236.8	221.6	217.2	221.6
72.5°	269.6	268.5	257.6	243.4	229.2	217.2	203.0	186.6	172.4	169.2	161.5
75°	186.6	188.8	191.0	188.8	176.8	161.5	145.2	132.1	114.6	104.8	102.6
77.5°	122.2	125.5	128.8	124.4	116.8	102.6	91.7	75.3	62.2	54.6	53.5
80°	89.5	93.9	96.0	92.8	84.0	73.1	61.1	48.0	38.2	31.7	31.7
82.5°	68.8	73.1	75.3	69.8	61.1	52.4	43.7	33.8	26.2	20.7	19.6
85°	24.0	22.9	27.3	28.4	33.8	31.7	26.2	19.6	15.3	10.9	9.8
87.5°	6.5	6.5	7.6	7.6	6.5	5.5	5.5	5.5	4.4	3.3	3.3
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)