

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: P529881

Luminaire Tested: **GALN-SA5A-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529881
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-SA5A-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA 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: 13676 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

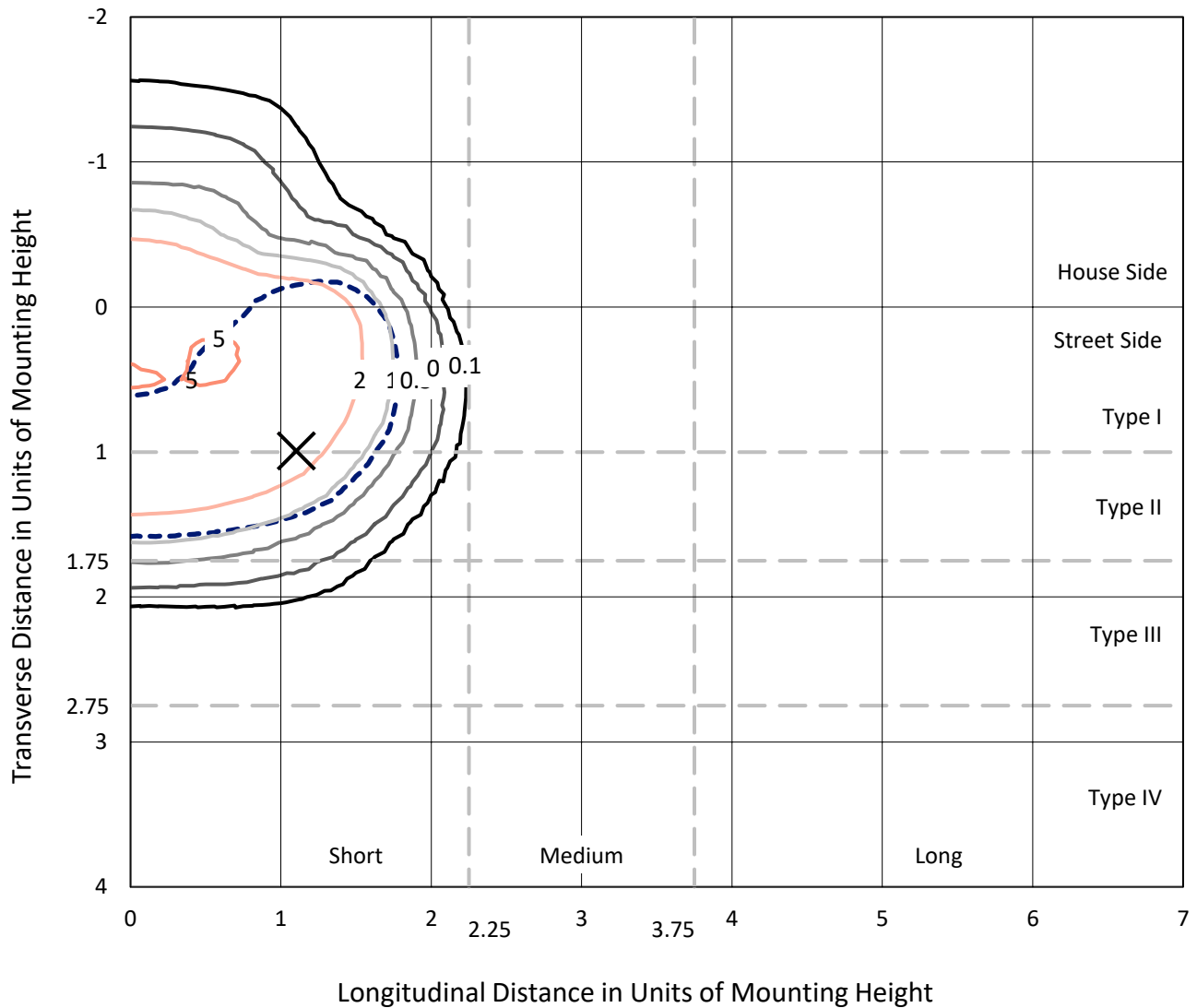
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529881
 CATALOG NUMBER: GALN-SA5A-740-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

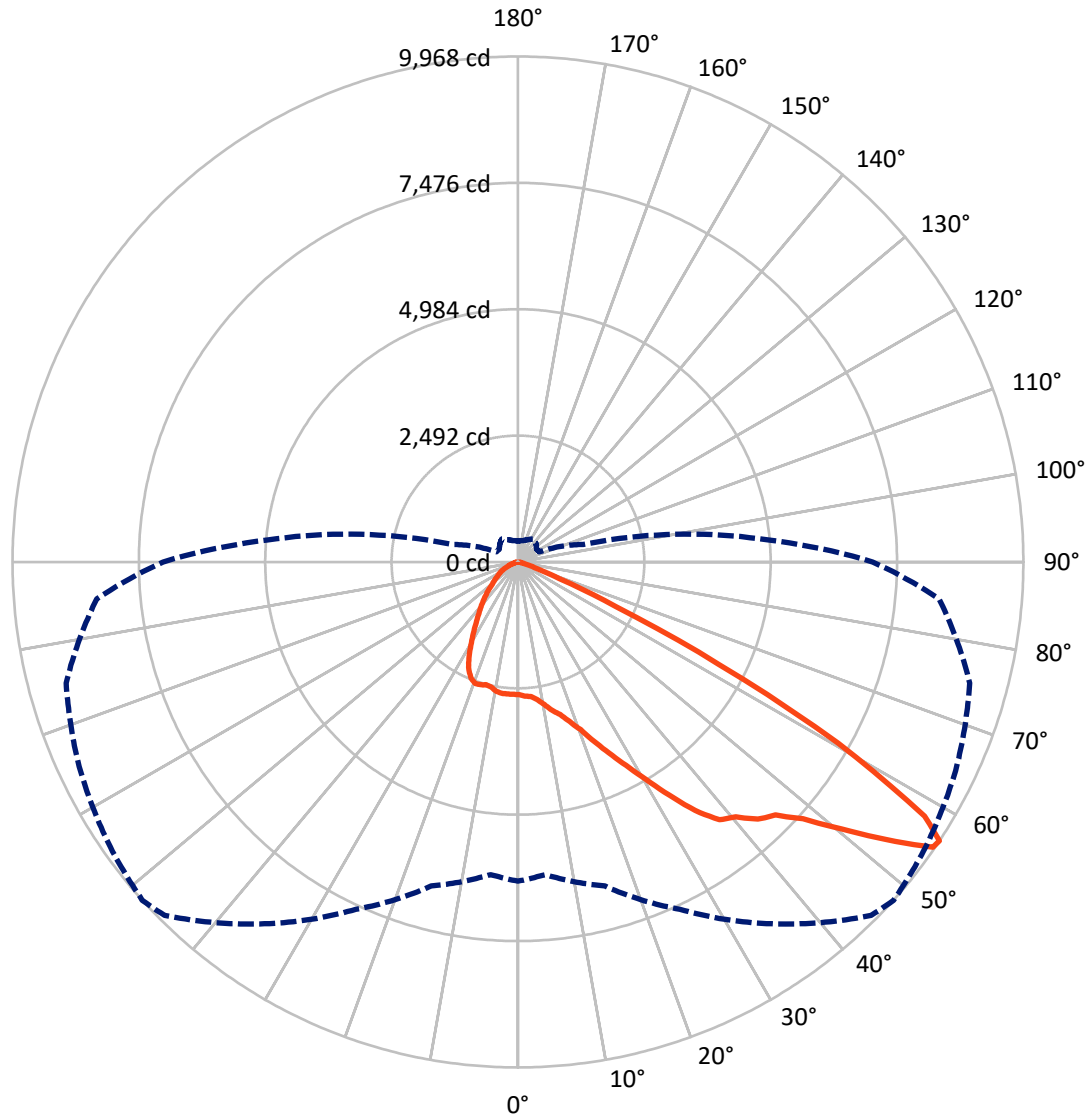
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

REPORT NUMBER: P529881
CATALOG NUMBER: GALN-SA5A-740-U-T3-GRSBK

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA5A-740-U-T3-GRSBK

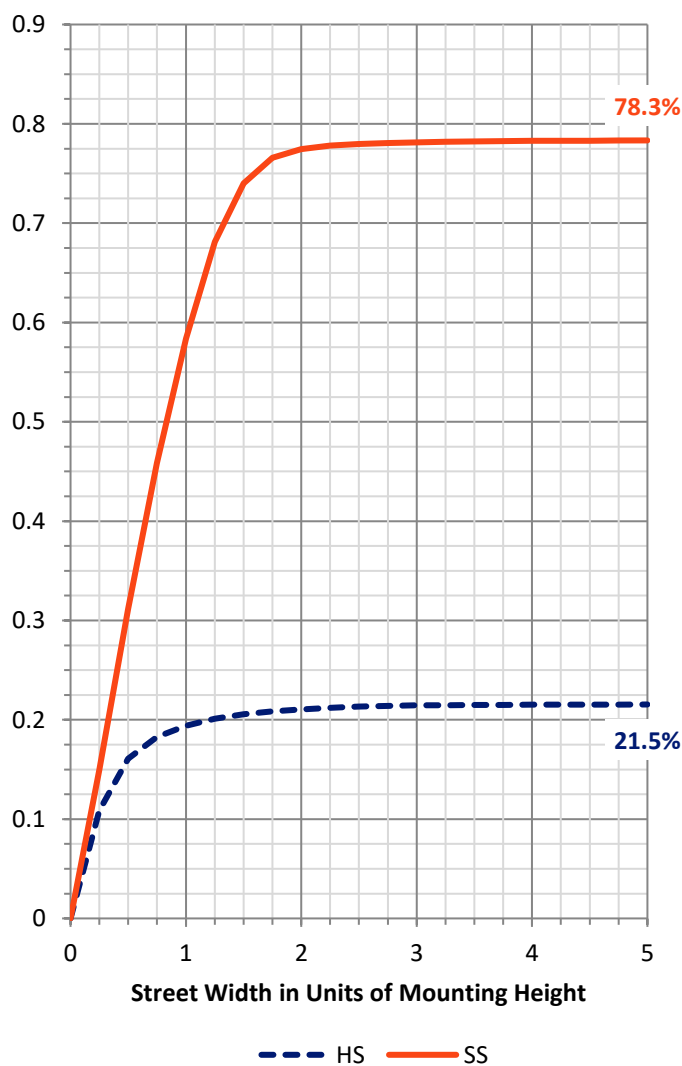
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2974.3	0.0	2974.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	10701.7	0.0	10701.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	13676.0	0.0	13676.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.4	1.9
10°-20°	813.2	5.9
20°-30°	1474.9	10.8
30°-40°	2316.8	16.9
40°-50°	3379.8	24.7
50°-60°	4072.1	29.8
60°-70°	1192.3	8.7
70°-80°	151.3	1.1
80°-90°	21.2	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°	13676.0	100.0
0°-180°	13676.0	100.0

Coefficient of Utilization

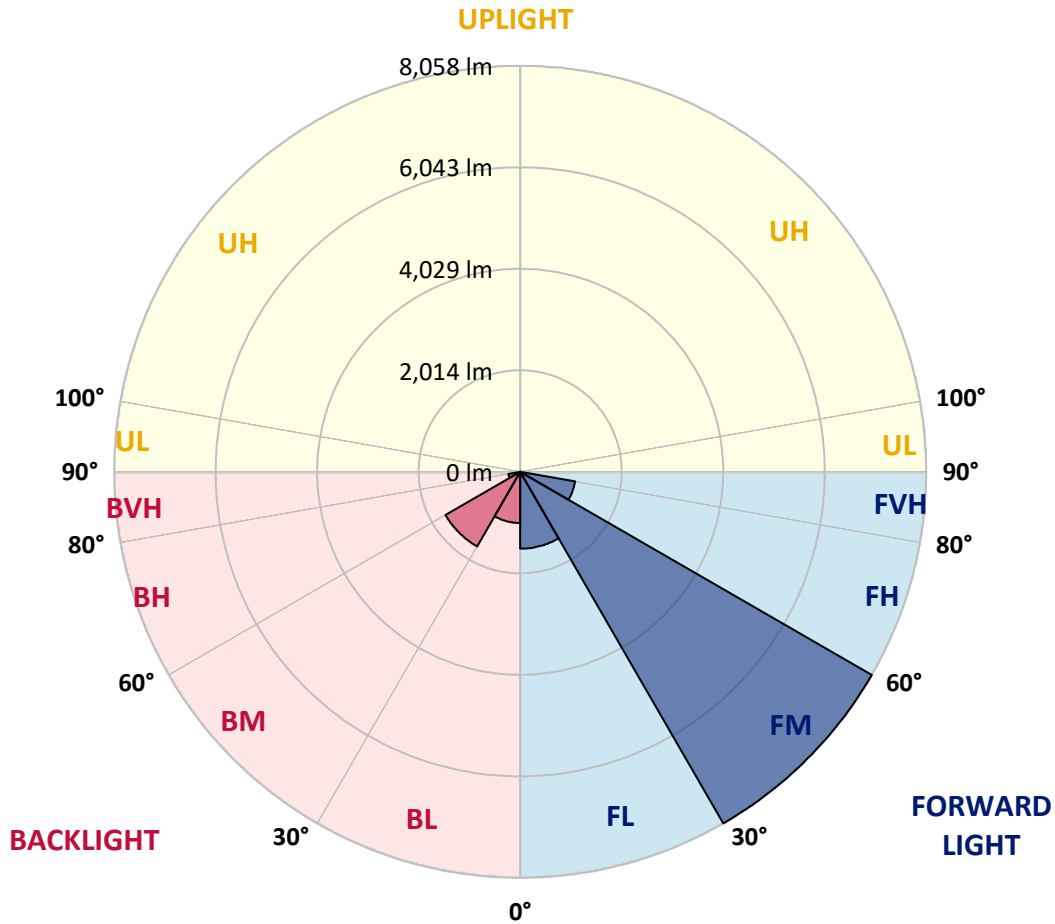


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1526.0	11.2			
FM (30°-60°)	8057.9	58.9			
FH (60°-80°)	1107.2	8.1			G1/1800
FVH (80°-90°)	10.7	0.1			G1/100
BL (0°-30°)	1016.6	7.4	B3/2500		
BM (30°-60°)	1710.8	12.5	B2/2500		
BH (60°-80°)	236.3	1.7	B1/500		G1/500
BVH (80°-90°)	10.6	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





REPORT NUMBER: P529881

CATALOG NUMBER: GALN-SA5A-740-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1
2.5°	2659.4	2647.0	2647.0	2627.1	2649.5	2639.5	2647.0	2622.1	2647.0	2609.6	2639.5
5°	2671.9	2674.4	2664.4	2676.9	2676.9	2691.8	2666.9	2689.3	2701.8	2674.4	2661.9
7.5°	2736.6	2741.6	2739.1	2729.2	2749.1	2746.6	2744.1	2726.7	2731.6	2721.7	2706.7
10°	2863.6	2861.1	2873.6	2848.7	2833.7	2851.2	2856.2	2828.8	2808.8	2801.4	2754.1
12.5°	3047.9	3018.0	3000.6	2975.7	2983.1	2958.2	3003.1	2955.8	2945.8	2901.0	2853.7
15°	3197.3	3192.3	3194.8	3155.0	3110.1	3120.1	3120.1	3095.2	3080.3	3025.5	2958.2
17.5°	3503.6	3399.0	3421.4	3371.6	3334.3	3331.8	3309.4	3314.3	3274.5	3159.9	3057.9
20°	3742.6	3697.8	3662.9	3578.3	3521.0	3538.4	3528.5	3503.6	3491.1	3341.7	3197.3
22.5°	3956.8	3971.7	3914.4	3892.0	3812.4	3819.8	3839.7	3817.3	3722.7	3568.3	3354.2
25°	4258.1	4240.7	4163.5	4136.1	4061.4	4088.8	4165.9	4148.5	4088.8	3809.9	3476.2
27.5°	4614.2	4554.4	4569.3	4444.8	4372.6	4449.8	4542.0	4629.1	4459.8	4093.7	3620.6
30°	4865.7	4803.4	4798.4	4793.5	4776.0	4865.7	4972.7	5052.4	4915.5	4377.6	3859.7
32.5°	4990.2	5005.1	5047.4	5032.5	5184.4	5368.7	5480.7	5595.3	5423.5	4840.8	4175.9
35°	5321.4	5226.7	5321.4	5331.3	5488.2	5879.1	6021.1	6295.0	6252.7	5495.7	4561.9
37.5°	5515.6	5508.1	5520.6	5615.2	5767.1	6250.2	6451.9	6663.5	6583.8	5889.1	5042.5
40°	5836.8	5856.7	5854.2	5926.5	6093.3	6529.1	6611.2	6783.1	6790.5	6434.4	5749.7
42.5°	6352.3	6272.6	6220.3	6295.0	6529.1	6770.6	6934.9	6900.1	7146.6	7096.8	6658.5
45°	6815.4	6862.7	6785.5	6910.0	6994.7	7124.2	7119.2	7193.9	7507.7	7744.2	7343.3
47.5°	7248.7	7278.6	7315.9	7400.6	7584.9	7604.8	7562.5	7530.1	7963.4	8207.4	7873.7
50°	7507.7	7535.1	7709.4	7861.3	8204.9	8249.7	8274.6	8192.5	8486.3	8513.7	8374.2
52.5°	7437.9	7467.8	7711.9	8212.4	8760.2	9171.1	9096.4	8956.9	8939.5	9046.6	8837.4
55°	6820.4	6793.0	7129.2	7908.6	8934.5	9920.6	9930.5	9783.6	9502.2	9430.0	8767.7
56°	6295.0	6187.9	6616.2	7557.5	8710.4	9855.8	9967.9	9811.0	9547.1	9223.4	8336.9
57.5°	5157.0	5259.1	5684.9	6464.3	7936.0	9390.2	9454.9	9417.6	9218.4	8675.5	7335.9
60°	2843.7	3023.0	3399.0	4352.7	5650.1	7206.4	7258.7	7562.5	7599.8	6643.6	5047.4
62.5°	1207.7	1187.8	1578.7	2280.9	3217.2	4350.2	4447.3	4758.6	4815.9	3829.8	2532.4
65°	490.6	517.9	714.7	1147.9	1700.7	1982.1	2119.1	2221.2	2410.4	1581.2	933.8
67.5°	323.7	321.2	420.8	654.9	916.4	884.0	884.0	933.8	864.1	644.9	403.4
70°	231.6	239.1	301.3	453.2	570.2	423.3	405.9	388.5	440.7	425.8	326.2
72.5°	151.9	161.9	201.7	271.4	296.3	231.6	231.6	278.9	363.6	343.6	266.4
75°	99.6	102.1	124.5	156.9	146.9	119.5	132.0	186.8	264.0	254.0	189.2
77.5°	67.2	69.7	84.7	102.1	82.2	67.2	72.2	94.6	129.5	129.5	99.6
80°	24.9	27.4	34.9	32.4	37.4	47.3	52.3	64.7	77.2	77.2	67.2
82.5°	0.0	2.5	7.5	17.4	27.4	37.4	42.3	49.8	57.3	64.7	62.3
85°	0.0	2.5	7.5	12.5	19.9	22.4	24.9	17.4	14.9	14.9	12.5
87.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	5.0	2.5	2.5
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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CATALOG NUMBER: GALN-SA5A-740-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1
2.5°	2612.1	2609.6	2609.6	2602.2	2617.1	2609.6	2614.6	2612.1	2579.8	2604.7	2587.2
5°	2639.5	2656.9	2629.6	2624.6	2604.7	2612.1	2612.1	2587.2	2609.6	2607.1	2602.2
7.5°	2709.2	2679.4	2649.5	2619.6	2614.6	2607.1	2579.8	2569.8	2587.2	2567.3	2597.2
10°	2739.1	2744.1	2699.3	2659.4	2622.1	2569.8	2532.4	2510.0	2482.6	2512.5	2529.9
12.5°	2876.1	2826.3	2749.1	2686.8	2559.8	2507.5	2470.2	2460.2	2507.5	2517.5	2500.1
15°	2923.4	2915.9	2816.3	2676.9	2544.9	2482.6	2490.1	2470.2	2475.2	2450.3	2455.2
17.5°	3020.5	2935.8	2818.8	2644.5	2542.4	2527.5	2482.6	2403.0	2358.1	2338.2	2355.6
20°	3127.6	3045.4	2876.1	2656.9	2564.8	2525.0	2378.1	2280.9	2188.8	2139.0	2141.5
22.5°	3222.2	3120.1	2851.2	2661.9	2584.7	2420.4	2243.6	2051.8	1937.3	1860.1	1862.6
25°	3336.7	3192.3	2861.1	2671.9	2532.4	2253.5	1999.6	1812.8	1675.8	1623.5	1641.0
27.5°	3401.5	3237.1	2915.9	2694.3	2395.5	2017.0	1743.1	1568.8	1489.1	1464.2	1461.7
30°	3595.7	3336.7	2983.1	2649.5	2166.4	1763.0	1509.0	1401.9	1324.7	1302.3	1307.3
32.5°	3884.6	3518.5	3070.3	2532.4	1932.3	1536.4	1357.1	1277.4	1205.2	1162.9	1157.9
35°	4126.1	3829.8	3162.4	2350.7	1660.9	1362.1	1250.0	1150.4	1040.9	993.6	981.1
37.5°	4586.8	4180.9	3142.5	2076.7	1401.9	1232.6	1135.5	1013.5	918.8	854.1	846.6
40°	5199.3	4591.8	3045.4	1743.1	1210.2	1118.1	1013.5	896.4	779.4	724.6	719.6
42.5°	5943.9	5094.8	2868.6	1404.4	1018.5	1003.5	908.9	774.4	669.8	630.0	632.5
45°	6549.0	5525.5	2689.3	1128.0	876.5	891.5	809.3	682.3	610.1	577.7	577.7
47.5°	7086.8	5816.9	2495.1	931.3	744.5	779.4	707.2	632.5	570.2	545.3	540.4
50°	7604.8	6113.2	2300.9	754.5	635.0	669.8	662.4	602.6	552.8	522.9	525.4
52.5°	7928.5	6160.5	2054.3	617.5	555.3	595.1	620.0	565.3	510.5	493.0	488.1
55°	7532.6	5550.4	1593.7	508.0	470.6	522.9	570.2	508.0	465.6	435.8	433.3
56°	6999.7	4962.8	1332.2	468.1	445.7	503.0	552.8	485.6	438.3	420.8	408.4
57.5°	5926.5	4061.4	983.6	415.8	413.4	468.1	525.4	463.2	408.4	393.4	393.4
60°	3695.3	2285.9	595.1	348.6	358.6	415.8	473.1	413.4	363.6	363.6	371.0
62.5°	1683.3	951.2	361.1	296.3	308.8	358.6	420.8	373.5	346.1	373.5	378.5
65°	572.7	410.9	261.5	236.6	244.0	296.3	361.1	378.5	376.0	393.4	403.4
67.5°	321.2	264.0	219.1	196.7	191.7	219.1	296.3	378.5	363.6	356.1	361.1
70°	271.4	224.1	194.2	174.3	166.8	176.8	229.1	286.4	256.5	249.0	244.0
72.5°	219.1	186.8	169.3	156.9	134.5	114.5	104.6	109.6	122.0	129.5	141.9
75°	154.4	141.9	141.9	127.0	97.1	72.2	57.3	47.3	32.4	22.4	24.9
77.5°	87.2	87.2	89.6	77.2	62.3	47.3	34.9	24.9	12.5	5.0	2.5
80°	59.8	64.7	69.7	62.3	52.3	42.3	29.9	17.4	7.5	0.0	0.0
82.5°	59.8	67.2	72.2	62.3	52.3	39.8	29.9	17.4	7.5	2.5	0.0
85°	12.5	14.9	17.4	19.9	29.9	29.9	22.4	14.9	7.5	2.5	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	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)