

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P533532

Luminaire Tested: **GALN-SA9A-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Report Generated By 670246001

Test Information

Test Method: LM-79-08
Report Number: P533532
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-SA9A-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 31286 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

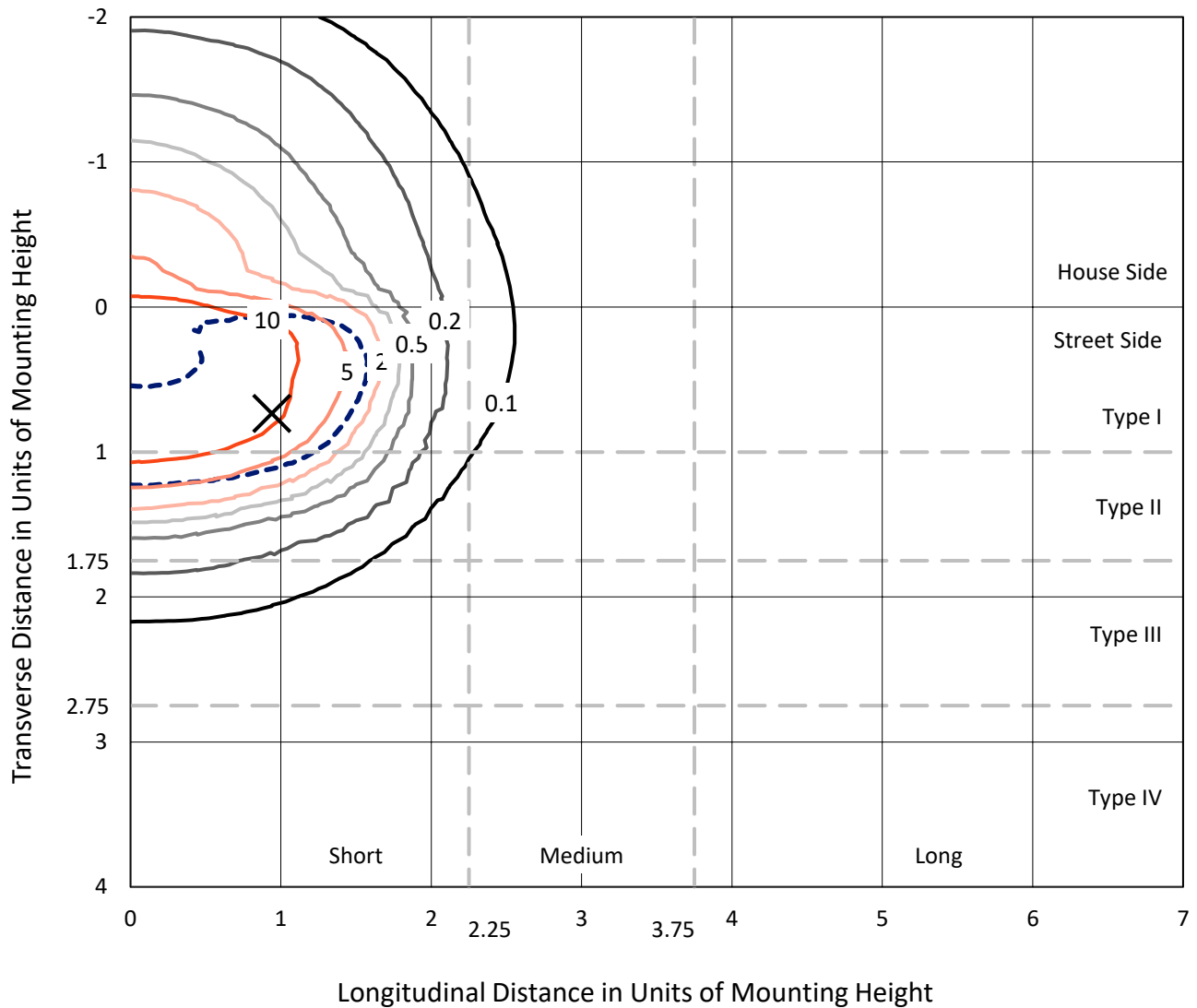
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

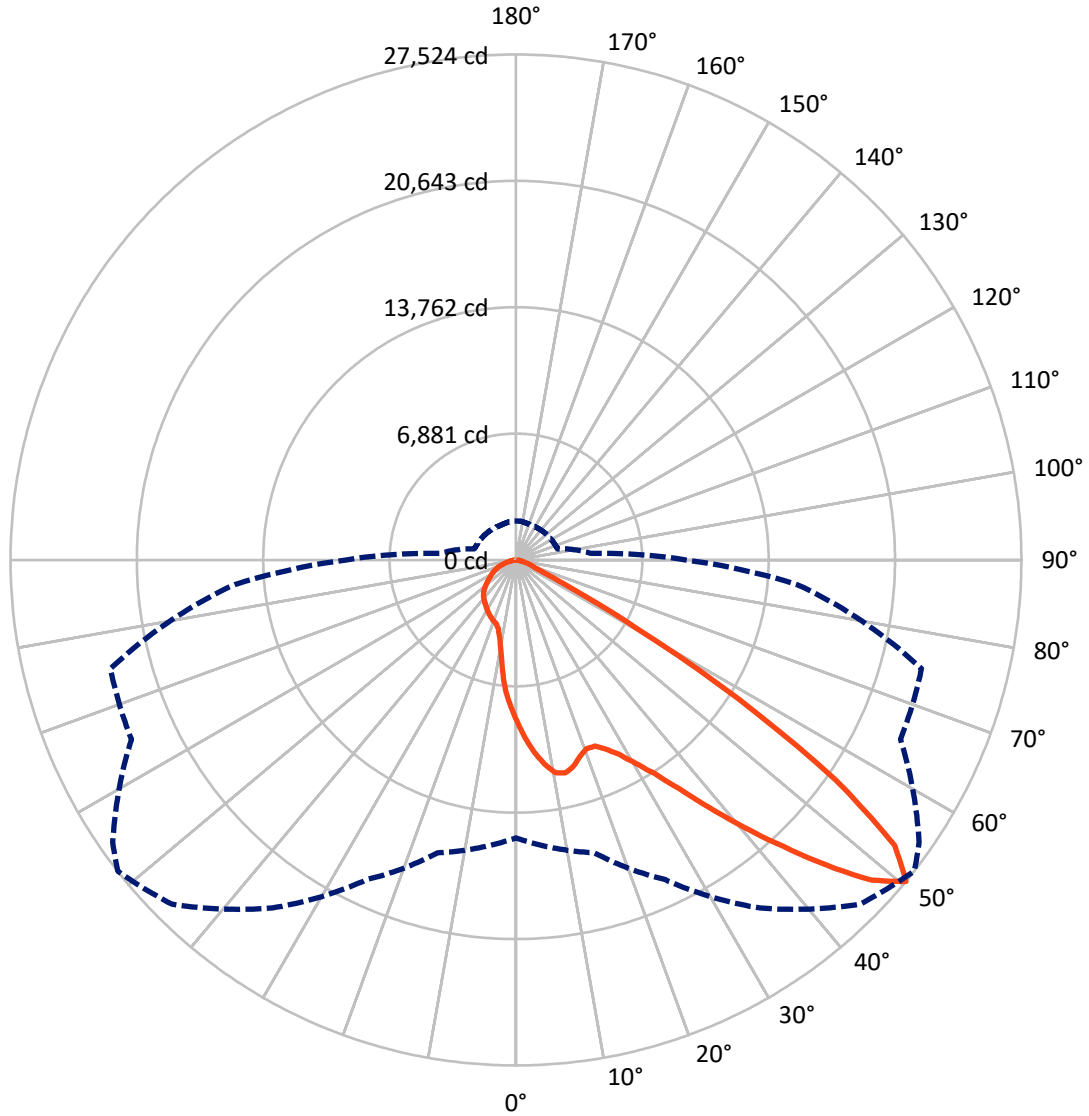
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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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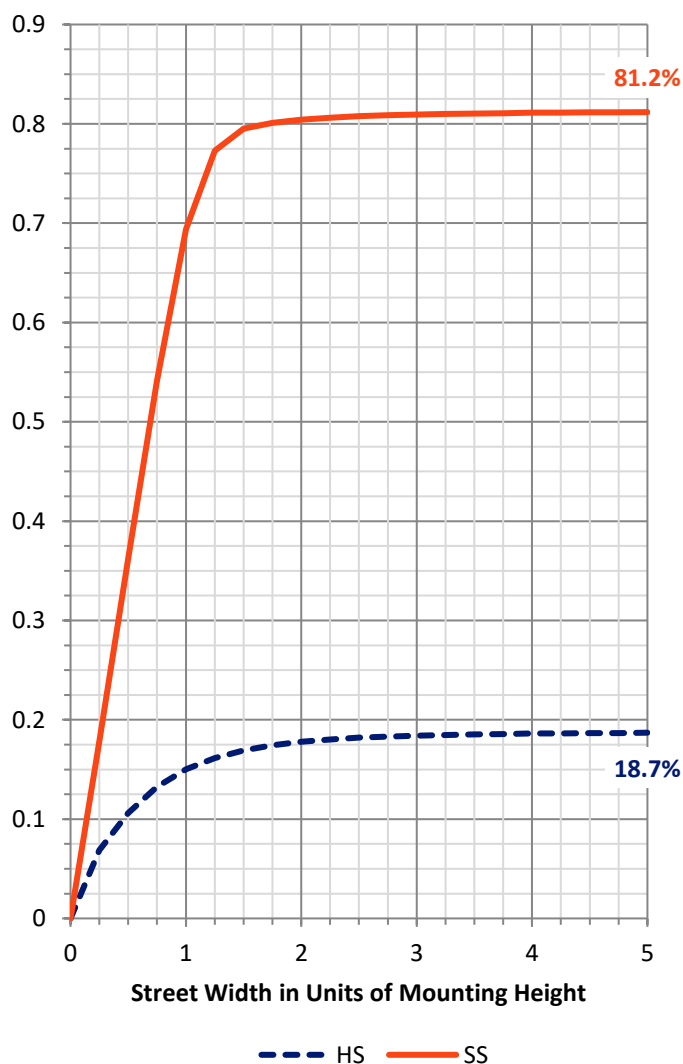
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5881.0	0.0	5881.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	25405.0	0.0	25405.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	31286.0	0.0	31286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.8	2.6
10°-20°	2178.6	7.0
20°-30°	3669.8	11.7
30°-40°	6158.3	19.7
40°-50°	9420.6	30.1
50°-60°	6868.4	22.0
60°-70°	1528.6	4.9
70°-80°	551.3	1.8
80°-90°	97.6	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°	31286.0	100.0
0°-180°	31286.0	100.0

Coefficient of Utilization



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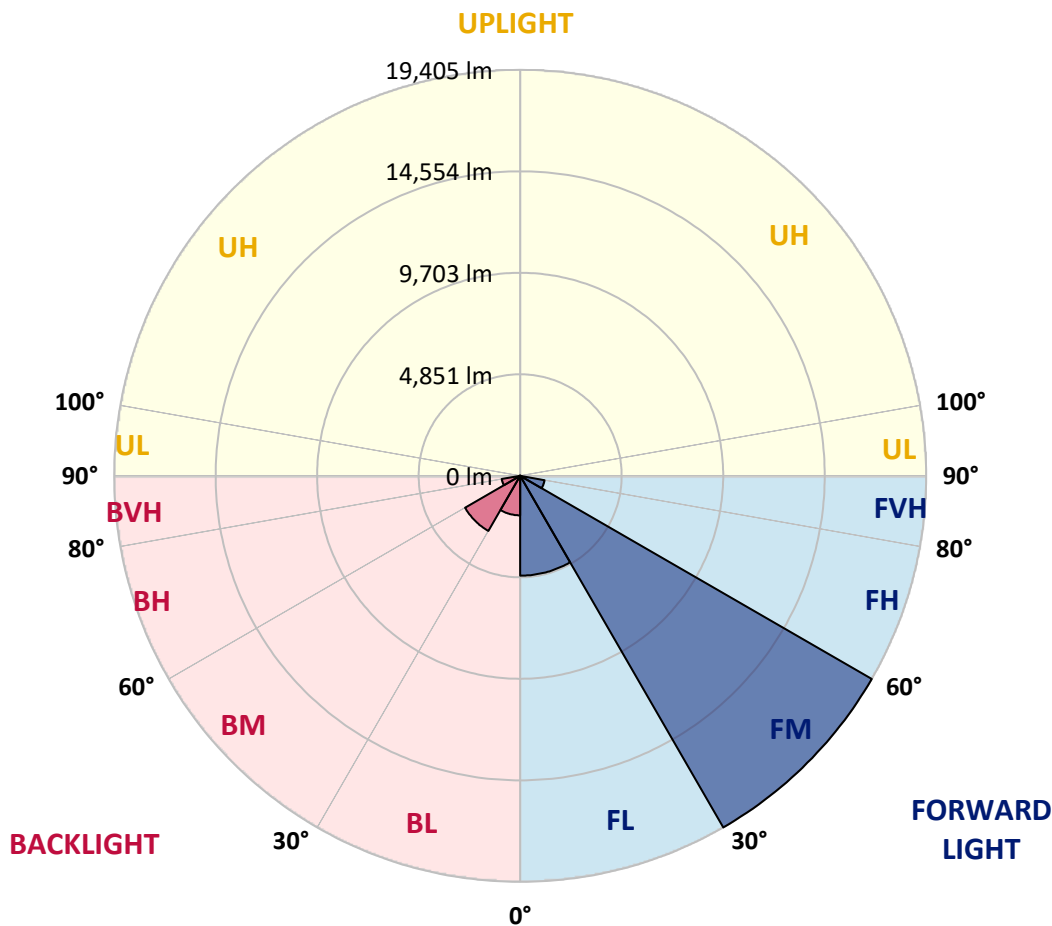
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4772.2	15.3			
FM (30°-60°)	19405.2	62.0			
FH (60°-80°)	1183.9	3.8			G1/1800
FVH (80°-90°)	43.7	0.1			G1/100
BL (0°-30°)	1889.1	6.0	B3/2500		
BM (30°-60°)	3042.1	9.7	B3/5000		
BH (60°-80°)	896.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	53.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8819.0	8819.0	8819.0	8819.0	8819.0	8819.0	8819.0	8819.0	8819.0	8819.0	8819.0
2.5°	10383.7	10183.9	10206.5	10063.2	9908.7	9863.4	9705.1	9554.2	9441.1	9199.8	8977.4
5°	11349.0	11288.6	11198.1	11085.0	10968.1	10681.6	10519.5	10330.9	9916.2	9542.9	9173.4
7.5°	11488.5	11477.1	11526.2	11526.2	11567.6	11458.3	11228.3	11096.3	10655.2	10048.2	9361.9
10°	10508.2	10542.1	10779.6	11088.8	11518.6	11816.5	11778.8	11744.8	11262.2	10432.7	9584.4
12.5°	9727.7	9652.3	9791.8	10055.7	10700.4	11420.6	11907.0	11910.7	11786.3	11047.3	9746.5
15°	9286.5	9339.3	9377.0	9501.5	9987.8	10821.1	11677.0	11929.6	12476.3	11480.9	10002.9
17.5°	9569.3	9392.1	9384.6	9414.7	9663.6	10289.5	11250.9	11684.5	12853.4	12038.9	10319.6
20°	9938.8	9935.0	9829.5	9791.8	9788.0	10346.0	10971.9	11560.1	13053.2	12762.9	10640.1
22.5°	10587.3	10587.3	10413.9	10330.9	10153.7	10610.0	11009.6	11409.3	13385.0	13260.6	10794.7
25°	11673.2	11496.0	11198.1	10994.5	10892.7	11054.9	11409.3	11767.5	13675.3	13788.4	11115.2
27.5°	12676.1	12397.1	12250.1	11899.4	11763.7	11669.4	11993.7	12355.7	14014.6	14610.4	11288.6
30°	13814.8	13765.8	13501.9	13049.4	12713.8	12540.4	12838.3	13196.5	14636.8	15451.2	11688.3
32.5°	15850.8	15405.9	15047.7	14493.5	13946.8	13577.3	13871.4	14108.9	15669.9	16329.7	12125.7
35°	18049.0	17905.7	17287.4	16288.2	15451.2	15119.4	15292.8	15470.0	16872.6	17671.9	12860.9
37.5°	20209.4	20013.4	19504.4	18663.6	17645.6	16970.6	17095.1	17302.4	18222.4	19481.7	13758.3
40°	21762.8	21521.5	21265.2	21140.7	20130.3	19206.5	19134.9	19187.7	20047.3	21178.4	14753.6
42.5°	21876.0	22173.8	22253.0	22754.5	22516.9	21759.1	21317.9	21329.2	21789.2	22856.3	15760.3
45°	21638.4	21363.2	21947.6	23316.3	24100.5	24454.9	23712.2	23617.9	22867.6	23829.0	16261.8
47.5°	19146.2	19221.6	20209.4	22373.7	24639.7	26223.2	26049.8	25736.9	23444.5	23795.1	16182.6
50°	15134.5	15590.7	16506.9	19202.7	23131.5	26502.3	27524.0	26800.1	23101.3	22860.0	15375.8
52.5°	10078.3	10266.8	10870.1	14350.2	18599.5	23689.5	25827.4	25993.3	22784.6	21634.7	14354.0
55°	4486.8	4471.7	5320.1	7495.6	11669.4	18026.4	21103.0	22113.5	21566.8	20386.6	13358.6
57.5°	1900.3	1964.4	2311.3	3238.8	5738.6	10877.7	14297.4	15183.5	16586.1	16740.7	10248.0
60°	1285.7	1293.3	1387.5	1621.3	2401.8	5108.9	7499.4	8562.6	9565.5	9497.7	5436.9
62.5°	1010.5	1036.9	1108.5	1202.8	1425.2	2318.8	3355.7	3947.6	4011.7	3374.5	2062.4
65°	863.4	867.2	938.8	1018.0	1116.0	1349.8	1617.5	1647.7	1666.5	1606.2	1515.7
67.5°	712.6	720.1	776.7	867.2	957.7	1033.1	1108.5	1146.2	1232.9	1402.6	1380.0
70°	565.6	576.9	625.9	701.3	784.2	829.5	923.8	957.7	1036.9	1168.8	1221.6
72.5°	429.8	433.6	475.1	527.9	603.3	648.5	727.7	765.4	818.2	931.3	980.3
75°	309.2	320.5	350.6	377.0	388.4	418.5	493.9	535.4	610.8	659.8	663.6
77.5°	162.1	169.7	177.2	177.2	214.9	271.5	320.5	343.1	395.9	433.6	414.7
80°	64.1	67.9	86.7	116.9	150.8	196.1	230.0	241.3	286.6	309.2	320.5
82.5°	37.7	41.5	56.6	82.9	109.3	139.5	165.9	177.2	207.4	233.8	241.3
85°	18.9	22.6	33.9	52.8	71.6	86.7	82.9	79.2	79.2	75.4	79.2
87.5°	7.5	7.5	11.3	11.3	11.3	15.1	18.9	18.9	18.9	22.6	22.6
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°	8819.0	8819.0	8819.0	8819.0	8819.0	8819.0	8819.0	8819.0	8819.0	8819.0	8819.0
2.5°	8830.3	8679.5	8540.0	8283.6	8004.6	7925.4	7601.2	7484.3	7401.3	7303.3	7273.1
5°	8875.6	8675.7	8227.0	7710.5	7299.5	6771.7	6424.8	6051.5	5780.0	5712.2	5693.3
7.5°	8969.8	8626.7	7853.8	7073.3	6232.5	5516.1	4969.4	4675.3	4415.2	4400.1	4373.7
10°	9075.4	8479.7	7446.6	6221.2	5146.6	4483.0	4155.0	4026.8	3962.7	3947.6	3940.1
12.5°	9162.1	8449.5	6990.4	5391.7	4377.5	3977.8	3879.8	3868.4	3894.8	3902.4	3917.5
15°	9199.8	8328.9	6439.9	4648.9	3898.6	3751.6	3793.0	3838.3	3857.1	3906.2	3868.4
17.5°	9271.5	8174.3	5761.2	4060.7	3630.9	3657.3	3728.9	3781.7	3811.9	3845.8	3796.8
20°	9309.2	8034.8	5124.0	3710.1	3536.7	3585.7	3683.7	3725.2	3762.9	3778.0	3721.4
22.5°	9275.2	7748.2	4562.2	3427.3	3446.2	3510.3	3597.0	3642.2	3619.6	3559.3	3525.3
25°	9184.7	7344.8	3977.8	3246.3	3318.0	3431.1	3498.9	3465.0	3423.5	3389.6	3378.3
27.5°	9181.0	6850.8	3555.5	3080.4	3208.6	3363.2	3340.6	3310.4	3329.3	3302.9	3272.7
30°	9199.8	6372.0	3208.6	2986.2	3129.4	3204.9	3231.2	3201.1	3223.7	3174.7	3189.8
32.5°	9101.8	5904.5	2982.4	2876.8	3035.2	3031.4	3118.1	3140.8	3088.0	2986.2	3001.3
35°	9143.3	5527.4	2790.1	2827.8	2929.6	2929.6	2997.5	2971.1	2831.6	2771.3	2786.3
37.5°	9429.8	5157.9	2695.8	2759.9	2827.8	2858.0	2835.4	2722.2	2688.3	2688.3	2695.8
40°	9701.3	4841.2	2639.3	2744.9	2733.6	2752.4	2586.5	2597.8	2597.8	2601.6	2582.7
42.5°	9942.6	4626.3	2594.0	2654.4	2673.2	2575.2	2473.4	2462.1	2488.5	2484.7	2469.6
45°	10029.3	4449.1	2529.9	2552.6	2567.7	2405.5	2356.5	2333.9	2364.1	2375.4	2390.4
47.5°	9697.5	4302.0	2458.3	2413.1	2382.9	2277.3	2213.2	2171.8	2209.5	2273.6	2288.6
50°	9271.5	4109.8	2345.2	2258.5	2194.4	2149.1	2103.9	2062.4	2088.8	2134.1	2122.7
52.5°	8641.8	3808.1	2201.9	2111.4	2002.1	2013.4	1971.9	1949.3	1964.4	1964.4	1953.1
55°	7744.4	3129.4	1960.6	1896.5	1806.0	1836.2	1843.7	1813.6	1783.4	1809.8	1787.2
57.5°	5286.1	2209.5	1749.5	1749.5	1659.0	1700.5	1696.7	1625.0	1553.4	1561.0	1545.9
60°	3057.8	1760.8	1613.7	1598.7	1504.4	1538.3	1545.9	1496.9	1387.5	1395.1	1380.0
62.5°	1738.2	1504.4	1410.1	1387.5	1368.7	1398.8	1398.8	1334.7	1240.5	1248.0	1232.9
65°	1478.0	1395.1	1259.3	1255.5	1248.0	1255.5	1225.4	1157.5	1074.6	1040.6	1044.4
67.5°	1342.3	1289.5	1157.5	1123.6	1101.0	1097.2	1040.6	976.5	938.8	908.7	904.9
70°	1176.4	1134.9	1036.9	991.6	969.0	916.2	859.7	818.2	765.4	750.3	765.4
72.5°	931.3	927.5	889.8	840.8	791.8	750.3	701.3	644.7	595.7	584.4	558.0
75°	644.7	652.3	659.8	652.3	610.8	558.0	501.5	456.2	395.9	362.0	354.4
77.5°	422.3	433.6	444.9	429.8	403.4	354.4	316.7	260.2	214.9	188.5	184.8
80°	309.2	324.3	331.8	320.5	290.3	252.6	211.1	165.9	132.0	109.3	109.3
82.5°	237.5	252.6	260.2	241.3	211.1	181.0	150.8	116.9	90.5	71.6	67.9
85°	82.9	79.2	94.3	98.0	116.9	109.3	90.5	67.9	52.8	37.7	33.9
87.5°	22.6	22.6	26.4	26.4	22.6	18.9	18.9	18.9	15.1	11.3	11.3
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)