

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: P648169

Luminaire Tested: **GALN-SA9A-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27228 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

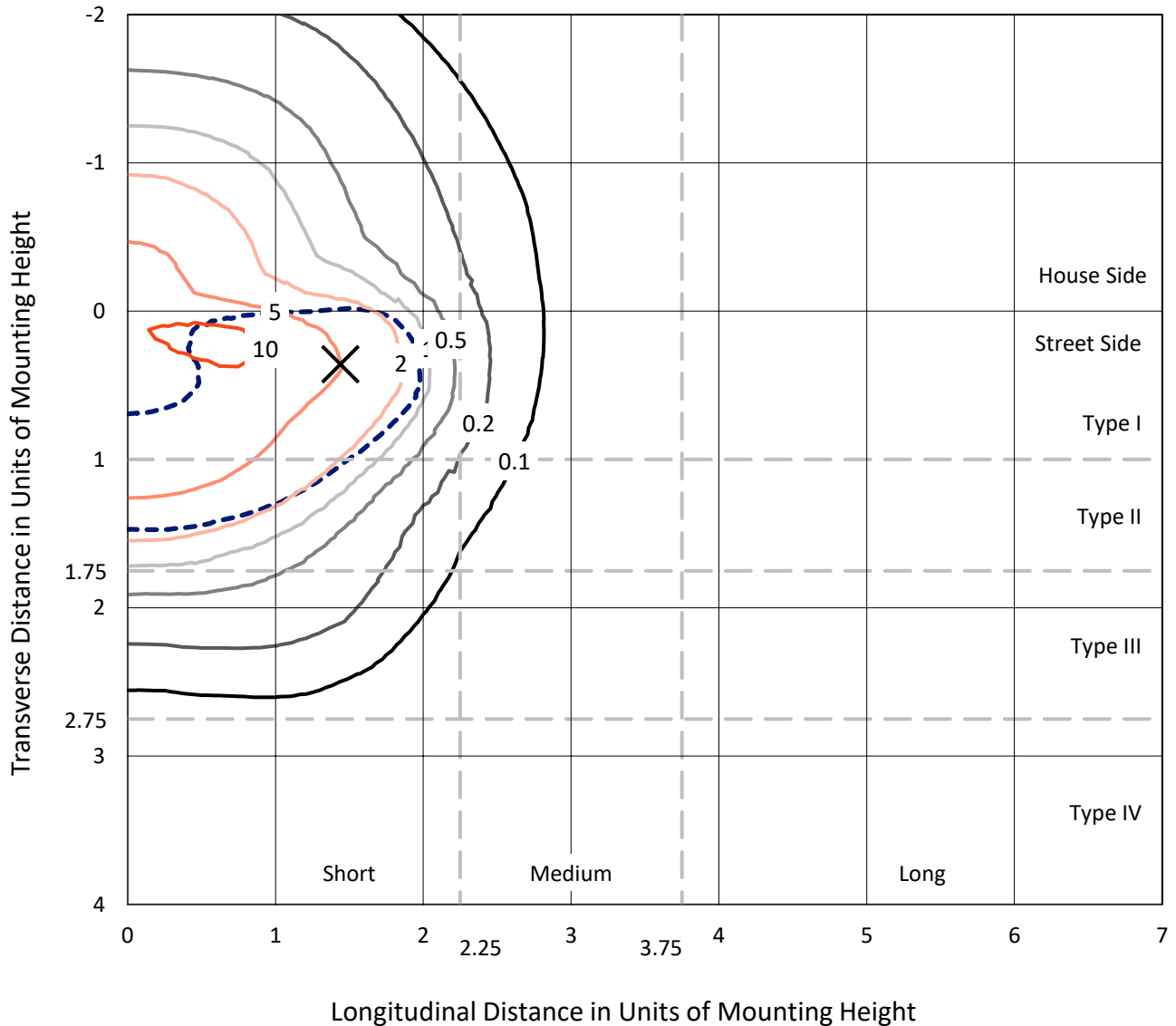
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

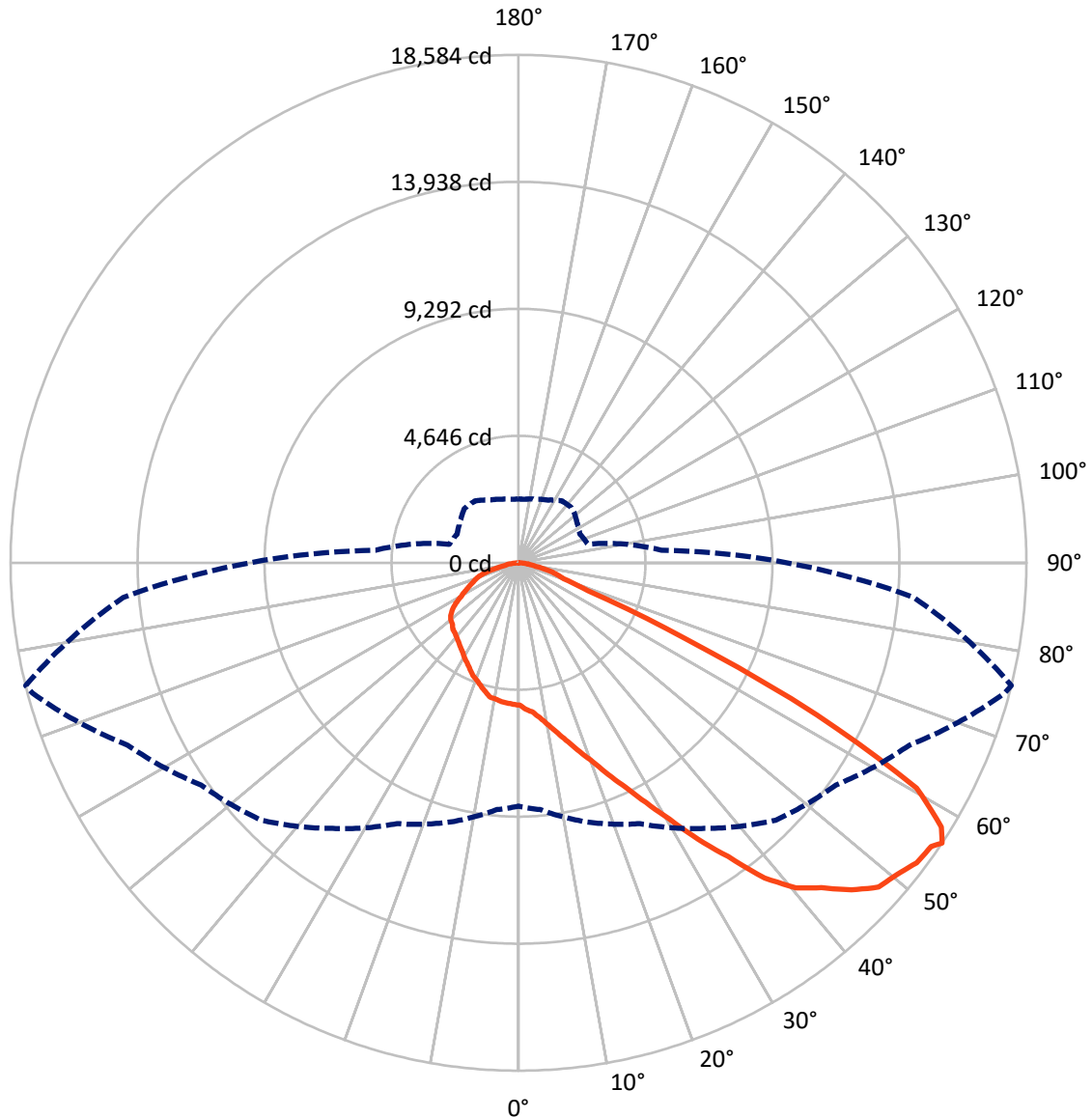
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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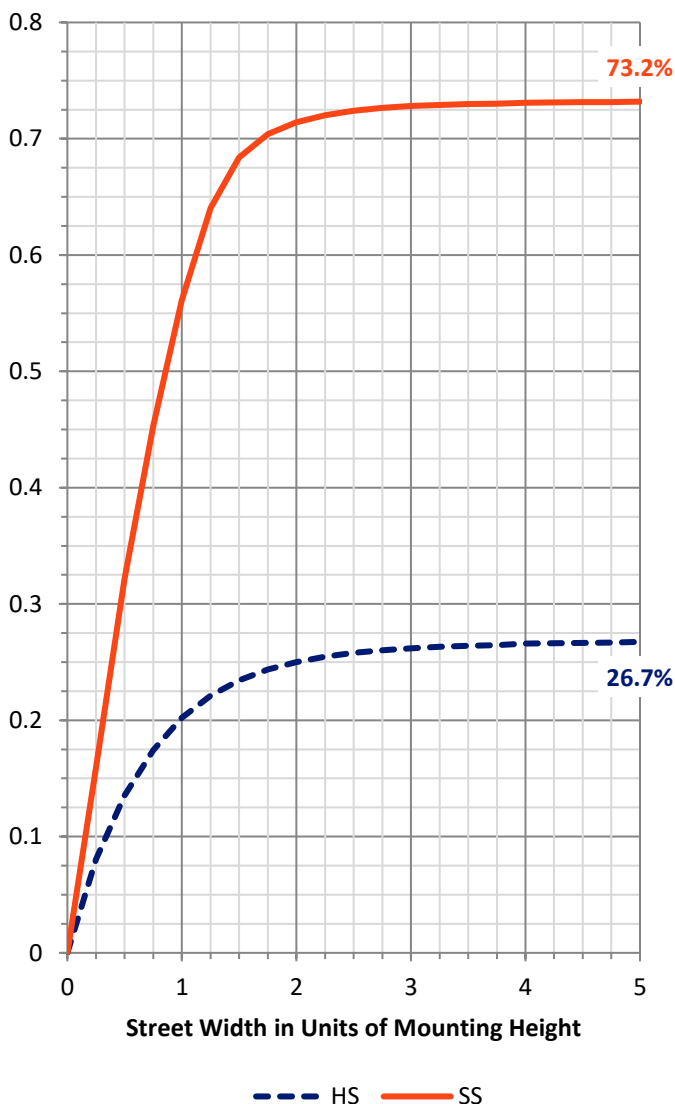
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7320.8	0.0	7320.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	19907.2	0.0	19907.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	27228.0	0.0	27228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.6	1.9
10°-20°	1622.9	6.0
20°-30°	2838.4	10.4
30°-40°	4444.0	16.3
40°-50°	6464.8	23.7
50°-60°	7105.2	26.1
60°-70°	3171.5	11.6
70°-80°	916.0	3.4
80°-90°	148.6	0.5
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°	27228.0	100.0
0°-180°	27228.0	100.0

Coefficient of Utilization



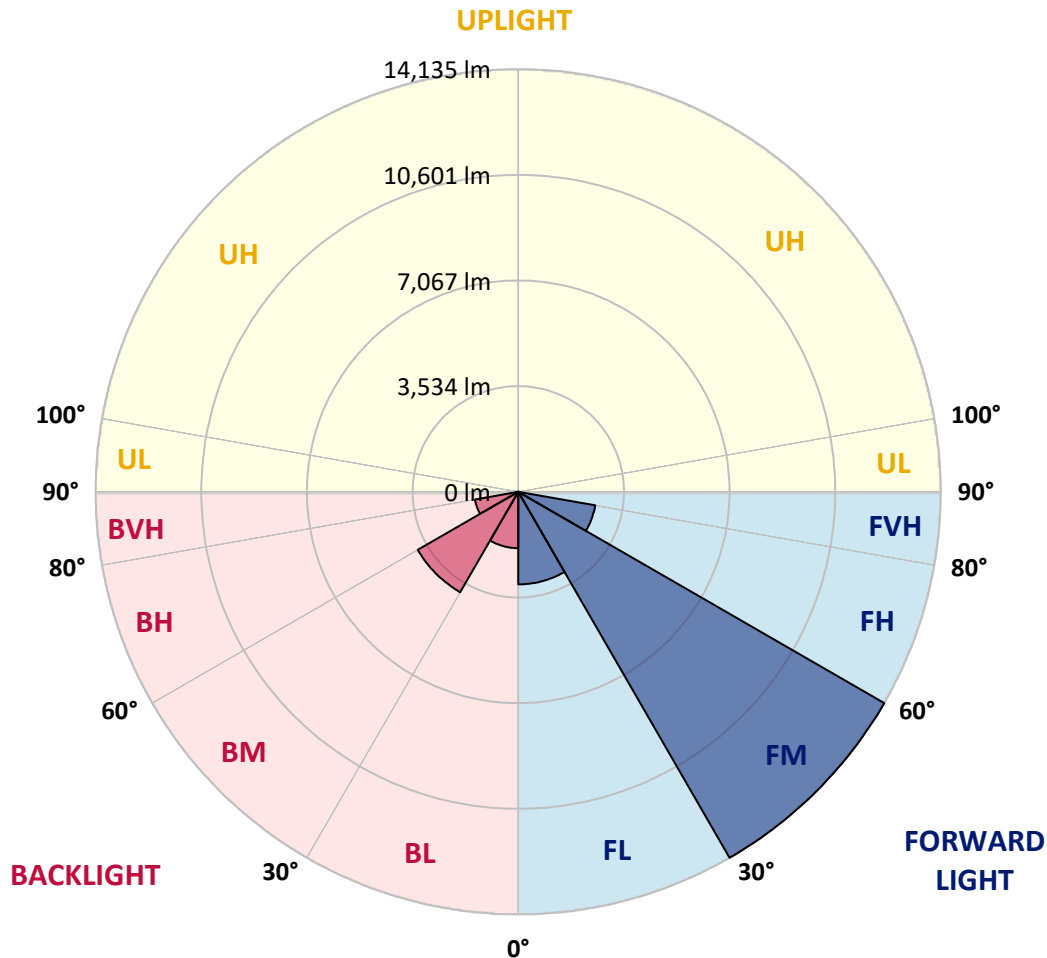
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3094.2	11.4			
FM (30°-60°)	14134.6	51.9			
FH (60°-80°)	2614.5	9.6			G2/5000
FVH (80°-90°)	64.0	0.2			G1/100
BL (0°-30°)	1883.8	6.9	B3/2500		
BM (30°-60°)	3879.4	14.2	B3/5000		
BH (60°-80°)	1473.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	84.6	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5209.8	5209.8	5209.8	5209.8	5209.8	5209.8	5209.8	5209.8	5209.8	5209.8	5209.8
2.5°	5739.2	5647.4	5640.3	5615.7	5629.8	5566.2	5499.2	5410.9	5319.2	5375.6	5241.5
5°	6141.5	6018.1	6067.5	5982.7	5993.3	5908.6	5770.9	5668.6	5555.6	5488.6	5393.3
7.5°	6282.7	6293.4	6328.6	6314.5	6244.0	6244.0	6152.1	5972.1	5774.5	5735.6	5576.8
10°	6473.4	6476.9	6438.1	6448.6	6547.4	6501.6	6420.4	6342.8	6088.6	6042.7	5760.4
12.5°	6540.4	6476.9	6540.4	6596.9	6713.4	6776.9	6759.2	6702.8	6431.0	6399.2	5986.3
15°	6551.0	6512.1	6565.1	6692.1	6794.6	7062.8	7196.9	7158.1	6798.1	6801.6	6240.4
17.5°	6501.6	6554.5	6575.7	6685.1	6921.6	7172.2	7560.5	7613.4	7316.9	7271.0	6561.6
20°	6568.7	6529.8	6558.0	6656.9	6971.0	7362.8	7871.1	8220.5	7804.0	7772.2	6893.4
22.5°	6826.3	6773.3	6766.3	6829.9	7055.8	7461.7	8199.3	8827.6	8397.0	8414.7	7306.3
25°	7027.5	7055.8	7031.0	7027.5	7168.7	7609.9	8633.5	9551.2	9201.7	9099.4	7793.4
27.5°	7373.4	7440.5	7391.1	7458.1	7426.4	7832.3	8944.1	10352.4	10070.0	9932.4	8234.7
30°	7853.4	7888.7	7842.8	7842.8	7747.6	8142.9	9226.5	11188.9	11072.5	10885.4	8753.5
32.5°	8485.2	8538.1	8446.4	8393.4	8379.4	8605.2	9734.7	12014.9	12212.5	12053.7	9441.7
35°	9321.8	9290.0	9180.6	9131.2	8940.5	9314.7	10490.1	12964.4	13483.2	13200.8	10274.8
37.5°	10059.4	10010.0	10003.0	9727.7	9773.6	10080.7	11132.5	13684.4	14715.0	14633.9	11153.6
40°	10747.7	10793.6	10867.7	10712.5	10641.8	10980.7	11880.8	14235.0	15671.6	15639.8	11831.3
42.5°	11485.4	11443.1	11573.7	11443.1	11337.2	11817.2	12692.6	14616.2	16511.6	16250.5	12540.8
45°	12554.9	12420.8	12466.7	12477.3	12399.6	12576.1	13027.9	14891.5	17101.0	17072.8	13059.7
47.5°	13447.9	13451.4	13373.8	13313.7	13077.3	13253.8	13402.0	15064.5	17778.7	17732.8	13260.8
50°	13779.7	13733.8	13959.7	14090.3	14104.4	13744.4	13695.0	15159.7	18135.2	17934.1	13462.0
52.5°	12586.6	12629.0	12985.5	13762.0	14210.3	14249.1	14037.3	15357.4	18280.0	18237.6	13624.4
55°	10130.1	10334.7	10920.7	11817.2	12879.6	14048.0	14408.0	15562.1	18357.6	18322.4	14344.4
56°	8905.3	9064.1	9826.5	10528.9	11863.1	13317.3	14175.0	15781.0	18417.6	18583.5	14513.8
57.5°	7168.7	7352.2	7899.3	8697.0	10271.2	11926.7	13532.6	15512.7	18184.6	18248.2	14637.4
60°	4482.6	4500.3	5156.8	5682.7	6791.0	8407.6	10327.7	13497.3	16829.3	16737.5	13147.9
62.5°	2940.2	2943.7	3540.3	3970.8	4475.5	4846.2	6078.0	8951.2	12417.2	12254.9	9360.6
65°	2064.8	2110.7	2573.1	3148.4	3353.1	3159.0	3120.2	4719.1	6935.7	6702.8	5029.8
67.5°	1510.7	1514.2	1923.7	2541.3	2837.8	2403.7	1951.9	2304.8	2746.1	2739.0	2329.6
70°	998.9	1041.2	1355.4	1898.9	2237.8	1930.7	1595.4	1648.4	1747.2	1747.2	1733.0
72.5°	582.4	621.2	829.4	1203.6	1256.6	1207.2	1263.6	1411.8	1475.4	1471.9	1454.2
75°	331.8	349.5	395.3	501.2	624.8	737.7	928.3	1069.5	1133.0	1171.8	1126.0
77.5°	194.1	204.8	232.9	285.9	324.7	398.9	504.7	603.5	688.3	677.7	684.7
80°	102.3	102.3	130.6	169.4	225.9	282.3	335.3	391.8	437.7	448.3	458.8
82.5°	60.0	63.5	84.7	123.6	162.4	201.2	257.7	296.5	338.9	342.4	349.5
85°	31.8	35.3	52.9	81.2	109.4	123.6	127.1	120.0	130.6	123.6	141.2
87.5°	10.6	10.6	17.6	14.1	14.1	17.6	21.1	21.1	28.3	28.3	28.3
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°	5209.8	5209.8	5209.8	5209.8	5209.8	5209.8	5209.8	5209.8	5209.8	5209.8	5209.8
2.5°	5238.0	5238.0	5178.0	5065.0	5047.4	5001.5	4959.1	4955.6	4923.8	4895.6	4881.5
5°	5336.8	5227.4	5139.1	5036.8	4916.8	4860.3	4796.7	4726.2	4697.9	4726.2	4722.7
7.5°	5449.8	5358.0	5093.3	4902.7	4765.0	4708.5	4637.9	4563.8	4570.8	4570.8	4521.4
10°	5559.1	5435.7	5012.1	4768.5	4567.3	4525.0	4486.2	4514.4	4549.7	4556.7	4525.0
12.5°	5742.7	5463.9	4973.2	4634.4	4507.3	4415.6	4440.3	4517.9	4592.1	4570.8	4595.6
15°	5880.3	5488.6	4796.7	4496.8	4337.9	4380.3	4468.5	4521.4	4645.0	4630.9	4655.6
17.5°	6014.5	5502.7	4623.8	4313.2	4246.1	4362.6	4429.7	4581.5	4620.3	4705.0	4736.8
20°	6289.8	5531.0	4447.4	4200.2	4179.1	4313.2	4429.7	4500.3	4585.0	4659.1	4659.1
22.5°	6431.0	5516.8	4330.9	4052.0	4119.0	4203.8	4309.7	4429.7	4429.7	4500.3	4503.8
25°	6607.5	5460.3	4147.3	3981.4	4030.8	4112.0	4232.0	4189.7	4235.6	4235.6	4292.0
27.5°	6808.7	5340.3	3988.4	3854.4	3953.2	4041.5	4059.1	4030.8	3977.9	3970.8	3949.7
30°	6971.0	5192.1	3872.0	3812.0	3893.2	3942.6	3886.1	3826.1	3734.4	3727.3	3677.9
32.5°	7193.4	5008.5	3727.3	3706.1	3797.9	3801.4	3783.8	3692.0	3557.9	3501.4	3444.9
35°	7567.5	4902.7	3617.9	3649.6	3677.9	3667.3	3635.5	3536.7	3402.5	3377.9	3356.6
37.5°	7842.8	4825.0	3504.9	3543.8	3568.4	3582.5	3487.2	3377.9	3381.4	3332.0	3317.9
40°	8153.5	4775.6	3413.2	3430.8	3434.3	3480.2	3363.8	3310.8	3335.5	3303.7	3324.9
42.5°	8552.3	4789.7	3317.9	3303.7	3370.8	3353.1	3296.7	3226.1	3240.2	3144.9	3159.0
45°	8764.0	4885.0	3261.4	3197.9	3272.0	3268.5	3194.3	3127.2	3042.6	2859.0	2866.1
47.5°	8905.3	4909.7	3127.2	3084.9	3162.5	3208.4	3123.7	2968.4	2848.4	2717.8	2686.1
50°	9050.0	4955.6	3063.7	2975.5	3007.3	3116.7	3010.8	2862.6	2746.1	2629.5	2647.2
52.5°	9177.1	5043.9	2940.2	2809.6	2866.1	2986.0	2929.6	2749.6	2622.5	2527.2	2498.9
55°	9741.8	5241.5	2732.0	2562.5	2696.7	2848.4	2816.6	2597.8	2460.2	2410.7	2403.7
56°	9830.0	5248.5	2622.5	2477.8	2601.4	2802.5	2763.7	2530.7	2407.2	2329.6	2333.1
57.5°	9844.1	5163.9	2467.2	2400.1	2506.1	2735.5	2686.1	2477.8	2308.4	2237.8	2216.6
60°	8661.7	4030.8	2273.0	2230.7	2354.2	2530.7	2513.1	2333.1	2142.5	2061.3	2100.2
62.5°	5905.1	2954.3	2121.3	2114.3	2177.8	2350.7	2304.8	2142.5	1983.7	1930.7	1906.0
65°	3437.8	2241.3	1973.1	1944.8	1997.7	2089.5	2121.3	1951.9	1786.0	1750.7	1740.1
67.5°	2029.5	1853.0	1782.5	1736.6	1718.9	1775.4	1800.1	1701.3	1535.4	1486.0	1528.3
70°	1697.8	1648.4	1651.9	1574.2	1531.9	1493.0	1471.9	1383.6	1246.0	1182.4	1164.8
72.5°	1464.8	1443.6	1429.5	1358.9	1320.1	1231.8	1140.0	1051.8	949.5	896.5	900.1
75°	1118.9	1111.9	1118.9	1083.6	1016.6	945.9	861.2	748.3	670.6	603.5	617.7
77.5°	667.1	688.3	698.9	684.7	656.5	593.0	540.0	465.9	391.8	338.9	331.8
80°	458.8	476.5	494.2	476.5	448.3	402.4	345.9	289.4	236.5	208.3	201.2
82.5°	349.5	367.1	377.6	360.0	324.7	275.3	236.5	197.6	155.3	127.1	120.0
85°	127.1	144.7	141.2	169.4	183.5	176.5	151.7	116.5	88.2	63.5	60.0
87.5°	35.3	31.8	35.3	35.3	35.3	31.8	28.3	28.3	28.3	17.6	14.1
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)